Draft
Environmental Impact Report
SCH# 2021020513

Volume 5
Technical Appendix I

Aratina Solar Project
by 64NB 8ME LLC

Zone Change Case No. 6, Map No. 192
Zone Change Case No. 3, Map No. 208-5
Zone Change Case No. 6, Map No. 208-6
Zone Change Case No. 1, Map No. 209-1
Conditional Use Permit No. 3, Map No. 208-5
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General Plan Amendment No. 6, Map No. 192 (Circulation)
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General Plan Amendment No. 3, Map No. 208-6 (Circulation)
General Plan Amendment No. 1, Map No. 209-1 (Circulation)
General Plan Amendment No. 1, Map No. 209-2 (Circulation)

Kern County
Planning and Natural Resources Department
Bakersfield, California

May 2021

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General Plan Amendment No. 1, Map No 209-2 (Circulation)

Kern County
Planning and Natural Resources Department
2700 M Street, Suite 100
Bakersfield, California 93301-2370
(661) 862-8600

Technical Assistance by:
Michael Baker International
3760 Kilroy Airport Way, Suite 270
Long Beach, California 90806
(562) 200-7165

May 2021

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Appendix I
Environmental Site Assessments

I-1 Phase I Environmental Site Assessment
I-2 Phase II Environmental Site Assessment

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Stantec Consulting Services Inc.
735 East Carnegie Drive Suite 280, San Bernardino CA 92408-3588

February 23, 2021

Attention: Mr. Alexander Sundquist
64NB 8me, LLC
5455 Wilshire Boulevard, Suite 2010
Los Angeles, California 90036

Dear Mr. Sundquist,

Reference: Aratina Solar Farm – Phase I and Phase II Environmental Site Assessment Reports and CEQA Level Geotechnical Study
Kern County, California

Stantec was informed by 64NB 8ME LLC that the areal footprint of the Aratina Solar Farm has been reduced from approximately 2,700 acres to 2,300 acres in order to create additional separation from communities of Boron and Desert Lake. In an abundance of caution, 64NB 8ME LLC contacted Stantec to evaluate whether the reduced footprint would change the conclusions of the Phase I and Phase II Environmental Site Assessment (ESA) reports or the CEQA Level Geotechnical Study report. Based on our discussions with 64NB 8ME LLC and review of the revised project layout provided, the referenced reports prepared by Stantec covered a larger project footprint and no new properties were being added to the project under the revised, reduced project footprint. Therefore, the conclusions of our Phase I and II ESAs and CEQA Level Geotechnical Study previously prepared for the Aratina Solar Farm would remain applicable as of the date the reports were produced.

Regards,

Stantec Consulting Services Inc.

Dion Monge
Senior Scientist
Phone: 909 335 6116
Fax: 909 335 6120
Dion.Monge@stantec.com

Kyle D. Emerson PG CEG
Managing Principal Geologist
Phone: 951 315 0534
Fax: 909 335 6120
Kyle.Emerson@stantec.com

Jaret Fischer PE
Principal Engineer
Phone: 909 35-6116 ext 8209
Fax: 909 335 6120
Jaret.Fischer@stantec.com

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Appendix I-1
Phase I Environmental Site Assessment

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Phase I Environmental Site Assessment - Aratina Solar Farm

June 4, 2019 (Revised March 30, 2020, September 1, 2020, December 8, 2020)

Prepared for:

64NB 8me, LLC
5455 Wilshire Boulevard, Suite 2010
Los Angeles, California 90036

Prepared by:

Stantec Consulting Services Inc.
735 East Carnegie Drive, Suite 280
San Bernardino, California 92408

Project No.: 185804366

Sign-off Sheet and Signatures of Environmental Professionals

This document entitled Phase I Environmental Site Assessment - Aratina Solar Farm was prepared by Stantec Consulting Services Inc. (“Stantec”) for the account of 64NB 8me, LLC (the “Client”). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec’s professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

All information, conclusions, and recommendations provided by Stantec in this document regarding the Phase I ESA have been prepared under the supervision of and reviewed by the professionals whose signatures appear below.

Author: _____

Project Geologic Specialist

Quality Reviewer: _____

Dion Monge
Senior Scientist

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Independent Reviewer: _____

Kyle Emerson, CEG
Managing Principal Geologist

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Abbreviations

AAI	All Appropriate Inquiry
ACM	Asbestos-containing material
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
BER	Business Environmental Risk
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulation
CREC	Controlled Recognized Environmental Conditions
CWA	Clean Water Act
ELUC	Environmental Land Use Control
EP	Environmental Professional
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
ft msl	Feet above mean sea level
HREC	Historical Recognized Environmental Conditions
HWMU	Hazardous Waste Management Unit
LBP	Lead-based paint
LUST	Leaking Underground Storage Tank
NESHAP	National Emissions Standard for Hazardous Air Pollutants
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Conditions
SWMU	Solid Waste Management Unit
TSCA	Toxic Substance Control Act

USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
VEC	Vapor Encroachment Condition
VOCs	Volatile Organic Compounds

1.0 SUMMARY

Stantec Consulting Services Inc. (Stantec) has completed a Phase I Environmental Site Assessment (ESA) report of the property located near the town of Boron, CA (the "Property"), on behalf of 64NB 8me, LLC (the "Client"). The work was performed according to Stantec's proposal and terms and conditions dated February 1, 2019 and accepted by the Client on March 19, 2019. 8minute Solar Energy (the "User") has been designated as the User of this report.

The Phase I ESA was conducted in conformance with the requirements of American Society for Testing and Materials (ASTM) Designation E 1527-13, and All Appropriate Inquiry (AAI) as defined by the US-EPA in Title 40 of the Code of Federal Regulations, Part 312, except as may have been modified by the scope of work, and terms and conditions, requested by the Client. Any exceptions to, or deletions from, the ASTM or AAI practice are described in Section 2.3.

The User is proposing to construct an approximate 600 megawatt-alternating current (MW-AC) utility-scale solar farm with energy storage known as Aratina Solar Farm (Aratina, or Project) at the Property. Power generated by the Aratina will be delivered from the Property via up to 230 kilovolt (kV) overhead and/or underground electrical transmission line(s) originating from one or more on-site substation(s)/switchyard(s) and terminating at the Southern California Edison (SCE) Holgate Substation.

The Property consists of a corridor of land parcels located north and south of Twenty Mule Team Road near the communities of Boron and Desert Lake, Kern County, California (Figure 1). These twenty-seven (27) parcels total an approximate area of 2,667 acres of undeveloped land. These parcels are largely contiguous and are only separated by Twenty Mule Team Road and Highway 58. Due to the size of the Property, the User has separated the Property into five (5) Conditional Use Permit Areas (CUPs) (Figures 2 through 6). These CUPs contain the following assessor parcel numbers, or portions thereof, as provided by the User:

CUP #1

APN	Owner	Zoning	Gross Acreage
244-010-04	Cho Family Trust	R-1	72.5
244-010-19	Linda Pietrangelo	A-1	10.2
244-010-20	Linda Pietrangelo	A-1	10.2
244-010-21	Linda Pietrangelo	A-1	10.2
244-010-22	Linda Pietrangelo	A-1	10.2
244-010-36	Genus	A-1	259.3
Total CUP #1			372.6

Summary

CUP #2

APN	Owner	Zoning	Gross Acreage
244-010-01	Su John Rosa Chen	A-1	10.0
244-010-02	Su John Rosa Chen	A-1	10.0
244-010-33	Su John Rosa Chen	A-1, R-1	302.1
244-040-03	GM Gabrych Family	A-1	635.2
Total CUP #2			957.3

CUP #3

APN	Owner	Zoning	Gross Acreage
232-140-09	Crane	A-1	14.7
232-140-11	Crane	M-1	11.2
244-040-07	Doraland	M-1	155.0
244-040-10	Crane	M-1	20.0
244-040-11	John Finne	M-1	28.5
244-040-12	John Finne	M-1	28.5
244-040-14	Britton Associates LLC	M-1	120.0
244-040-15	Britton Associates LLC	M-1	158.0
244-040-17	Crane	M-1	26.1
244-040-19	John Flinne	M-1	20.0
244-040-20	Crane	M-1	20.0
244-040-21	Tim Cao	M-1	17.0
244-040-22	Desert Lake Community Service District	M-1	1.0
244-040-23	Doraland	M-1	26.2
Total CUP #3			646.0

CUP #4

APN	Owner	Zoning	Gross Acreage
232-081-10	John Hui	A-1	221.3
232-220-36 (partial)	Illy King	A-1	221.1
Total CUP #4			442.4

Summary

CUP #5

APN	Owner	Zoning	Gross Acreage
232-220-37 (partial)	Illy King	A-1	249.0
Total CUP #5			249.0

According to the Kern County assessors map, the zoning of the Property parcels vary. The zoning classification of the Property parcels include the following:

- Limited agriculture (A-1);
- Exclusive agriculture (A); and,
- Low density residential (R-1).

Surrounding properties are a mix of commercial and residential properties, with the Edwards Air Force Base located along the southern boundary of the Property. A Property location map is illustrated on Figure 1. A Property map illustrating the main features of the Property is provided as Figures 2 through 6. Photographs taken during the site reconnaissance visit are provided in Appendix A.

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of a corridor of land parcels located north and south of Twenty Mule Team Road near the communities of Boron and Desert Lake, Kern County, California, the Property. Any exceptions to, or deletions from, this practice are described in Section 2.3 of this report. This assessment has revealed the following evidence of recognized environmental conditions in connection with the Property:

<u>Conditional Use Permit Area 1</u>

Adjacent Boron Landfill. The Boron Municipal Landfill, operated by Kern County, is located in the south eastern portion of the Property, near CUP Area 1. Although the landfill is not a part of the Property, the Property boundaries nearly fully enclose the landfill facility. A historical release of VOCs occurred from the landfill operations during the1990's which contaminated groundwater beneath the Property. Groundwater monitoring has been performed since the discovery of the VOCs in groundwater. According to a 2018 groundwater sampling report for the landfill, the VOC compounds in shallow groundwater near the landfill have natural attenuated to concentrations below the California Maximum Contaminant Levels (MCLs).

According to documents reviewed on the California State Water Resources Control online database base Geotracker, no landfill gas collection system currently operates at this facility. However, landfill gas monitoring is performed at vapor well locations surrounding the facility. According to the most-recent monitoring report, no landfill gas (*i.e.* methane) was detected above action levels.

The presence of the landfill facility adjacent to the Property is considered a REC to the Property. Although no landfill gas collection systems are currently operating at the Property, and recent landfill gas monitoring has shown that landfill gases are not leaving the Property at levels of concerns,

Stantec recommends collecting soil vapor data within the Property boundaries to confirm no soil vapor impacts are present from this facility.

Shooting Range. Stantec identified a shooting range in the southeastern portion of the Property, within CUP Area 1. The shooting range is approximately ¼-mile in length and contains multiple targets for small munitions (handgun and rifle).

The accumulation of heavy metals from small munitions within shallow soils of the shooting range area are considered likely. Therefore, the shooting range is considered a REC to the Property. Stantec recommends performing a shallow soil assessment in the areas of targets within the shooting range to characterize possible metals impacts to shallow soils in these areas.

De minimis condition

Multiple soil and other debris dumping areas were observed near the Proposed Property boundary south of this facility. Stantec recommends removing the materials that are within the Property boundaries prior to Property development.

Conditional Use Permit Area 2

Historical Target Site PB-9. A historical target identified as "PB-9" was used by Edwards Air Force Base and was located along the southern Property boundary. The User provided a report for this Target prepared by BayWest. In BayWest's report, "identification and removal of munitions debris and non-munition related debris" was performed in portions of the Property in 2012.

The historical target is considered a HREC to the Property. Although the BayWest summary report was provided to Stantec for review, Stantec recommends a more comprehensive file review by an authorized unexploded ordinance (UXO) firm (i.e. BayWest) relating to the target PB-9 area of the Property. Additionally, Stantec recommends that a certified UXO company be present during the development of this portion of the Property.

Conditional Use Permit Area 3

No RECs identified.

Conditional Use Permit Area 4

No RECs identified.

Conditional Use Permit Area 5

No RECs identified.

The preceding summary is intended for informational purposes only. Reading of the full body of this report is recommended.

2.0 INTRODUCTION

The objective of this Phase I ESA was to perform All Appropriate Inquiry (AAI) into the past ownership and uses of the Property consistent with good commercial or customary practice as outlined by the ASTM in "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process", Designation E1527-13. "All Appropriate Inquiry" (AAI) is the process for evaluating a property's environmental conditions for the purpose of qualifying for landowner liability protections under CERCLA. following final rule of Part 312 of Title 40, Code of Federal Regulations (40 CFR Part 312). The purpose of this Phase I ESA was to identify, to the extent feasible, adverse environmental conditions including recognized environmental conditions ("RECs") of the Property.

The ASTM E1527-13 standard indicates that the purpose of the Phase I ESA is to identify RECs, including historical recognized environmental conditions ("HRECs"), and controlled recognized environmental conditions ("CRECs") that may exist at a property. The term "recognized environmental conditions" means 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.

ASTM defines a "HREC" as a REC that has occurred in connection with a property but has been addressed to the satisfaction of the applicable regulatory authority and meets current 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, institutional controls, or engineering controls). Before calling the past release a HREC, the environmental professional (EP) must determine whether the past release is a REC when the current Phase I ESA is conducted (e.g., if there has been a change in the regulations). If the EP considers the 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.

ASTM defines a "CREC" 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 (e.g., as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), but with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, activity and use limitations, institutional controls, or engineering controls).

As defined by ASTM, RECs can include hazardous substances or petroleum products present under conditions in compliance with laws if that presence represents a material threat of future release. The presence of hazardous substances or petroleum products is, however, not a REC if that presence is a *de minimis* condition. De minimis conditions are minor occurrences of contamination that generally do not present a material risk to human health and would not likely be subject to enforcement action if brought to the attention of governmental agencies.

This Phase I ESA was conducted in accordance with our proposal to 64NB 8me dated February 1, 2019 and Client's authorization on March 19, 2019. The scope of work conducted during this Phase I ESA consisted of a visual reconnaissance of the Property, interviews with key individuals, and review of reasonably ascertainable documents. The scope of work did not include an assessment for environmental regulatory compliance of any facility ever operated at the Property (past or present), or sampling and analyzing of environmental media. Stantec was not contracted to perform an independent evaluation of the purchase or lease price of the Property and its relationship to current fair market value. The conclusions presented in this Phase I ESA report are professional opinions based on data described herein. The opinions are subject to the limitations described in Section 2.3.

ASTM E1527-13 notes that the availability of record information varies from source to source. The User or Environmental Professional is not obligated to identify, obtain, or review every possible source that might exist with respect to a property. Instead, ASTM identifies record information that is reasonably ascertainable from standard sources. "Reasonably ascertainable" means:

1. Information that is publicly available;
2. Information that is obtainable from its source within reasonable time and cost constraints; and
3. Information that is practicably reviewable.

2.1 PROPERTY DESCRIPTION

The Property consists of a corridor of land parcels located north and south of Twenty Mule Team Road near the communities of Boron and Desert Lake, Kern County, California (Figure 1). These twenty-seven (27) parcels total an approximate area of 2,667 acres of undeveloped land. These parcels are largely contiguous and are only separated by Twenty Mule Team Road and Highway 58. Due to the size of the Property, the User has separated the Property into five (5) Conditional Use Permit Areas (CUPs) (Figures 2 through 6). These CUPs contain the following assessor parcel numbers, or portions thereof, as provided by the User:

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CUP #5

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- Exclusive agriculture (A); and,
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Surrounding properties are a mix of commercial and residential properties, with the Edwards Air Force Base located along the southern boundary of the Property. A Property location map is illustrated on Figure 1. A Property map illustrating the main features of the Property is provided as Figures 2 through 6. Photographs taken during the site reconnaissance visit are provided in Appendix A.

2.2 SPECIAL TERMS, CONDITIONS, AND SIGNIFICANT ASSUMPTIONS

There were no special terms, conditions, or significant assumptions associated with this Phase I ESA.

2.3 EXCEPTIONS AND LIMITING CONDITIONS

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided and given the schedule and budget constraints established by the client. No other representations, warranties, or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential and actual liabilities and conditions associated with the Property.

This report provides an evaluation of selected environmental conditions associated with the Property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available, and the results of the work. They are not a certification of the property's environmental condition.

This report relates solely to the specific project for which Stantec was retained and the stated purpose for which this report was prepared and shall not be used or relied upon by client for any variation or extension of this project, any other project, or any other purpose.

This report has been prepared for the exclusive use of the client identified herein and any use of or reliance on this report by any third party is prohibited, except as may be consented to in writing by Stantec or as required by law. The provision of any such consent is at Stantec's sole and unfettered discretion and will only be authorized pursuant to the conditions of Stantec's standard form reliance letter. Stantec assumes no responsibility for losses, damages, liabilities, or claims, howsoever arising, from third party use of this report.

Project Specific limiting conditions are provided in Section 2.2.

The locations of any utilities, buildings and structures, and property boundaries illustrated in or described within this report, if any, including pole lines, conduits, water mains, sewers and other surface or sub-surface utilities and structures, are not guaranteed. Before starting site work, the exact location of all such utilities and structures must be confirmed by the client and the party performing the work, and Stantec assumes no liability resulting from damage to such utilities and structures.

The conclusions are based on the conditions encountered at the Property by Stantec at the time the work was conducted. As the purpose of this report is to identify Property conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the Property is beyond the scope of this assessment.

The findings, observations, and conclusions expressed by Stantec in this report are not an opinion concerning the compliance of any past or present owner or operator of the Property which is the subject of this report with any Federal, state, provincial or local law or regulation.

This report presents professional opinions and findings of a scientific and technical nature. It does not and shall not be construed to offer a legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations or policies of Federal, state, provincial or local governmental agencies. It is recommended that issues raised by the report should be reviewed for the client by its legal counsel.

Stantec specifically disclaims any responsibility to update the conclusions in this report if new or different information later becomes available or if the conditions or activities on the property subsequently change.

2.4 PERSONNEL QUALIFICATIONS

This Phase I ESA was conducted by, or under the supervision of, an individual that meets the ASTM definition of an Environmental Professional (EP). The credentials of the EP and other key Stantec personnel involved in conducting this Phase I ESA are provided in Appendix B.

3.0 USER-PROVIDED INFORMATION

ASTM E1527-13 describes responsibilities of the User to complete certain tasks in connection with the performance of "All Appropriate Inquiries" into the Property. The ASTM standard requires that the Environmental Professional request information from the User on the results of those tasks because that information can assist in the identification of RECs, CRECs, HRECs, or de minimis conditions in connection with the Property. Towards that end, Stantec requested that the User provide the following documents and information:

Description of Information	Provided (Yes / No)	Description and/or Key Findings
User Questionnaire	Yes	See below.
Environmental Liens or Activity Use Limitations	Yes	None identified.
Previous Environmental Permits or Reports Provided by User	No	None provided.
Purpose of the Phase I ESA	--	Due Diligence

Stantec forwarded the ASTM recommended User Questionnaire to Alexander Sundquist, Vice President of Land Development of 8minute Solar Energy. The User Questionnaire was dispersed to the respective Property parcel owners, completed, and returned to us by Mr. Sunquist and are included in Appendix C.

A completed User Questionnaire indicated that a portion of the Property was historically used for clay mining, located in the southwestern portion of CUP Area 2 of the Property. Additionally, a separate competed user questionnaire indicated that a historical target was used along the southern Property boundary by Edwards Air Force base. Further discussion of this target is included in Sections 4.2.1 and 4.4.5 of this report.

The User provided information is included in Appendix C.

4.0 RECORDS REVIEW

The objective of consulting historical sources of information is to develop the history of the Property and surrounding area and evaluate if past uses may have resulted in RECs. Physical setting records are evaluated to determine if the physical setting may have contributed to adverse environmental conditions in connection with the Property. During the review of historical records, Stantec attempted to identify uses of the Property from the present to the first developed use of the Property. Stantec's research included the reasonably ascertainable and useful records described in this section.

4.1 PHYSICAL SETTING

A summary of the physical setting of the Property is provided in the table below with additional details in the following subsections

Topography:	The elevation of the Property average elevation is approximately 2485 feet above mean seal level (amsl). The Property is generally flat, with a regional topographic gradient to the north, (USGS, 1974).
Soil/Bedrock Data:	The surface lithology is the area of the Property is generally unconsolidated sediments of fluvial and aeolian origin. These sediments consist of gravels and sands with varying degrees of silts and clays. These sediments are understood to be over 2,000-feet thick and are underlain by quartz-monzonite intrusive units (Dibble, 1974).
Estimated Depth to Groundwater/ Estimated Direction of Gradient:	According to the California Department of Water Resources (CDWR) online Groundwater Information Center Interactive Map Application (GICIMA), groundwater in the area of the Property is approximately 200 feet below ground surface, or at an elevation of approximately 2165 feet amsl, and generally flows to the northwest (CDWR, 2019).
NOTE: Site-specific groundwater flow direction and depth can only be determined by conducting site-specific testing, which Stantec has not conducted.	

4.1.1 Property Topography and Surface Water Flow

The elevation of the Property is approximately 2485 feet above mean seal level (amsl). The Property is generally flat, with a regional topographic gradient to the north, away from Leuhman Ridge (USGS, 1974). Base on topography, surface water on the Property infiltrates the ground surface. Several low-lying areas are present at the Property, discernable by the accumulation of rainwater and subsequent fine-grained sediment material, creating small playas. Runoff of water from the Property during heavy rain events is expected to be minimal.

4.1.2 Regional and Property Geology

The Property is located within Antelope Valley, which is located in the western portion of the Mojave Desert, part of the Basin and Range physiographic province. The western Mojave Desert is a wedge-shaped area of high desert bordered by the San Gabriel Mountains to the southwest and the Tehachapi Mountains to the northwest. Its eastern boundary is less prominent, ending in the highlands east of the Mojave River. The Antelope Valley is a closed topographic basin that encompasses a major portion of the western Mojave Desert and is characterized by broad alluvial valleys with surrounding low hills. Seasonal runoff forms ephemeral lakes (playas) at topographic lows, which are present throughout the Property.

The Western Mojave Desert is a great wedge-shaped fault black, commonly referred to as the Mojave Block. The two major shear zones of the San Andres and the Garlock faults bound the block to the southwest and the northwest, respectively. The San Andreas fault is by far the larger, trending to the northwest. The Garlock fault trends to the northeast with left-lateral displacement and can be traced for approximately 150 miles. Many relatively smaller faults occur within the Mojave Block that sub-parallel the major shears of the San Andreas and the Garlock faults. The majority of these smaller faults trend to the northwest. Important trending faults in the vicinity of the Property include the Spring and Leuhman faults, located to the south of the Property.

Generally, basin-fill and alluvial Quaternary-aged unconsolidated sediments overly crystalline basement complex of pre-Tertiary age at the Property. The thickness of these sediments is variable with proximity to the nearby hills of Leuhman Ridge, located approximately 2 miles south of the Property. In the area of the Property, these sediments are understood to be over 2,000-feet thick, generally unconsolidated, and comprised of gravels, sands, silts, and clay lenses. Basement rocks in the area are generally quartz-monazite granitic intrusive units, with local areas of low-grade to high-grade metamorphism, and highly fractured areas in proximity to fault planes (Dibblee, 1967)

4.1.3 Regional and Property Hydrogeology

The Property is located within the Antelope Valley groundwater basin (6-044). The basin is bounded on the northwest by the Garlock fault zone at the base of the Tehachapi Mountains and on the southwest by the San Andreas fault zone at the base of the San Gabriel Mountains. The basin is bounded on the east by ridges, buttes, and low hills that form a surface and groundwater drainage divide and on the north by Fremont Valley Groundwater Basin at a groundwater divide approximated by a southeastward-trending line from the mount of Oak Creek through Middle Butte to exposed bedrock near Gem Hill, and by the Rand Mountains farther east (California Department of Water Resources [CDWR], 2018). According to the CDWR online Groundwater Information Center Interactive Map Application (GICIMA), groundwater in the area of the Property is approximately 200 feet below ground surface, or at an elevation of approximately 2165 feet amsl, and generally flows to the northwest (CDWR, 2019).

4.2 FEDERAL, STATE AND TRIBAL ENVIRONMENTAL RECORDS

A regulatory agency database search report was obtained from Environmental Data Resources, Inc. (EDR), a third-party environmental database search firm. A complete copy of the database search report, including the date the report was prepared, the date the information was last updated, and the definition of databases searched, is provided in Appendix D.

Stantec evaluated the information listed within the database relative to potential impact to the Property, assessing the potential for impacts based in part on the physical setting. As part of this process, inferences have been made regarding the likely groundwater flow direction at or near the Property. As described in 4.1.3, the inferred shallow groundwater flow direction is likely to be in the northwest direction. Observations about the Property and surrounding properties made during the Property reconnaissance are provided in more detail in Section 5.

4.2.1 Listings for Property

The Property was identified in the environmental database report under various databases. Below is a table summarizing the listings.

Listed Facility Name/Address	Database Listing	REC? (YES / NO)
Edwards Air Base – 7 – AOC 371	MCS	No
According to the State Water Resources Control online database Geotracker, an Edwards Air Force Base identified as Site 371 is located in the southwestern portion of CUP Area 2 of the Property. The case listing is for the removal of a 300-gallon waste oil underground storage tank (UST), identified as "Tank # P045". The UST was removed under Kern County permit number A 2028-57. After a thorough review of Waterboard case files, and Department of Defense files, it is believed this case location is mis-plotted on the Geotracker database and is actually located within the limits of the base (located outside of the Property boundaries). Although no maps were identified showing details for this Site 371, multiple small-scale maps of Edwards Air Force Base sites were found. Therefore, this listing is not considered to be a REC to the Property. Stantec recommends no further investigating regarding this listing.		
Off Base Adjacent Area 2 (East & West)	UXO	Yes
This listing is for the historical presence of an aerial munitions target located along the southern Property boundary shared with Edwards Air Force Base. No other details are listed in the environmental database report. The presence of the historical munitions target located near/on the Property is considered a REC. Further information regarding this listing is discussed in Section 4.4.6.		

4.2.2 Listings for Nearby Sites with Potential to Impact Property

Stantec assessed data presented in the environmental agency database search report to evaluate the potential for conditions on adjacent and nearby sites to pose a REC, CREC, or HREC for the Property. The evaluation included an opinion of the potential for contamination by hazardous substances or petroleum products to migrate to the Property from a nearby property, including by vapor migration or encroachment (i.e., potential for a vapor encroachment condition [VEC].

Based on this evaluation, the following individual facilities were identified as the most likely potential sources of impact to the Property. The basis for why each of the following listed databases creates a REC for the property is also provided.

Listed Facility Name/Address	Database Listing	Distance/Direction from Property	REC? (YES / NO)
US Borax Inc.	SEMS-ARCHIVE, CORRACTS, RCRA-LQG, FINDS, ECHO	0.762 Miles North	No
This listing is for the US Borax open pit mine, operated by Rio Tinto Minerals, Inc. According to the database report, the facility generates more than 1,000 kilograms of hazardous waste during a calendar year, with characteristics containing pH less than 2, metal dust, liquids containing over 20 milligram per liter of mercury, and other hazardous characteristics. The facility is also listed for air emissions monitoring; however, no data is available regarding this database listing. The facility is listed with the Department of Toxic Substances Control (DTSC), with a "no corrective action" listing. Due to the distance of the facility from the Property, location of the facility from the Property (hydraulically down-gradient), this listing is not considered to represent a REC to the Property. Therefore, Stantec recommends no further investigation regarding this listing.			
Edwards Air Force Base	DOD, NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG, US ENG CONTROLS, US INT CONTROL, ENVIROSTOR, HIST CAL-SITES, DEED, ROD, RAATS, PRP, ICIS, US AIRS, DOCKET HWC, ICE	Adjacent to south	No
A military installation identified as Edwards Air Force Base is located south and west of the Property. The military installation has been present in the area for approximately 60 years. Several cleanup sites are listed within the base limits, overseen by various agencies. The cleanup activities include the removal of USTs, and associated contamination, cleanup of munition and rocket testing areas, and numerous leaks from military operations. After a review of these site locations, no locations are within ¼ - mile of the Property boundaries. Therefore, it is considered unlikely that these sites would impact the Property and create a REC. Stantec recommends no further investigation regarding this listing.			
Boron Class III Landfill 5 Miles South of Boron, Boron, California 93516	WMUDS/SWAY, LDS, ENF, WDS, CIWQS	Adjacent – southeastern parcels	Yes
This listing is for a Class III landfill, located in the southeastern area of the Property. The landfill accepts domestic nonhazardous wastes including construction wastes, garbage, manure, vegetable and animal solids and semisolid wastes from the nearby communities of Boron, Desert Lake, Kramer Junctions, and Edwards Air Force Base. The landfill is operated by Kern County Public Works, and under the oversight of the Lahonton Regional Water Quality Control Board. The Boron Sanitary Landfill property consists of 260 acres. The permitted facility boundary encompasses 120 acres with approximately 14 acres containing the existing refuse footprint area. The landfill is unlined with no leachate or landfill gas collection systems. Volatile organic compounds (VOCs), including tetrachloroethene (PCE), were detected in groundwater beneath the landfill in 1994. Semi-annual groundwater and vadose zone monitoring are performed at the landfill to confirm landfill operation are			

Listed Facility Name/Address	Database Listing	Distance/Direction from Property	REC? (YES / NO)
not contaminating these media. According to the 2018 Second Annual Monitoring Report for the facility, low levels of methane (0.2 – 0.3 percent by volume) were detected in the perimeter landfill gas monitoring probes. Low levels of the VOC dichlorodifluoromethane (Freon 12) were detected in groundwater during this monitoring event. No other VOCs were detected in groundwater during this monitoring event Through recent and historical groundwater monitoring performed at the facility, contaminants in groundwater beneath the facility has been shown to naturally attenuate and are currently present at levels below maximum contaminant levels (MCLs). No chemicals have been detected in perimeter landfill gas monitoring points which would indicate that landfill operations are impacting vapor conditions. Due to the data presented in the most recent monitoring report for this facility, depth to groundwater, and the nature of the facility, Stantec considers this facility unlikely to represent a REC to the Property. Therefore, Stantec recommends no further investigation related to this listing. The presence of the landfill facility adjacent to the Property is considered a REC to the Property. Although no landfill gas collection systems are currently operating at the Property, and recent landfill gas monitoring has shown that landfill gases are not leaving the Property at levels of concerns, Stantec recommends collecting soil vapor data within the Property boundaries to confirm no soil vapor impacts are present from this facility.			

The remaining listings in the database search report provided in Appendix D do not constitute a potential REC for the Property.

4.3 LOCAL/REGIONAL ENVIRONMENTAL RECORDS

Stantec checked the following sources to obtain information pertaining to Property use and/or indications of RECs in connection with the Property:

4.3.1 Local Health Department

Agency Name Contact Information	Finding
Kern County Environmental Health eh@kerncounty.com March 3, 2019	Stantec submitted a request for public records for the Property to this agency on March 3, 2019. Stantec received a response from this agency on March 20, 2019 indicating that records were available. The reviewed records indicate the presence of multiple natural gas pipelines on the Property and the construction of a water well. The agency records are attached as Appendix F. No REC were identified in reviewing records from this agency.

4.3.2 Fire Department

Agency Name Contact Information	Finding
Kern County Fire Department http://www.kerncountyfire.org/ March 9, 2019	Stantec submitted a request for public records for the Property to this agency on March 3, 2019. The Kern County Fire Department responded in email correspondence dated March 15, 2019 indicating that records were not searchable by assessor parcel number, and only by physical address only. The lack of records from this agency is not considered a significant data gap.

4.3.3 Local Building and/or Planning Department Records

Agency Name, Contact Information	Findings
Stephanie Wood Kern County Building Department https://kernpublicworks.com March 9, 2019.	Stantec submitted a request for public records for the Property to this agency on March 3, 2019. As of the date of this report, no response has been received from this agency. If a response is received from this agency after the date of this report which would alter the report conclusion or recommendations, Stantec will issue an addendum to this report.
Regional Water Quality Control Board, Lahonton Region 15095 Amargosa Road, Building 2, Suite 210 Victorville, CA 92394	Stantec submitted a request for public records for the Property to this agency on March 3, 2019. Agency staff responded by listing nearby facilities which may affect the Property. Stantec reviewed these nearby facilities on the State Water Resources Control online database Geotracker (www.geotracker.waterboards.ca.gov). Details pertaining to these nearby facilities are listed in Section 4.2.2.

4.4 HISTORICAL RECORDS REVIEW

4.4.1 Land Title Records/Deeds

Land title records, deeds, environmental liens, and activity and use limitation documentation was not provided by the User, and public records were not searched by Stantec.

No other land title records were reviewed by Stantec as part of this assessment.

4.4.2 Aerial Photographs

Stantec reviewed historical aerial photographs provided by EDR. The general type of activity on a property and land use changes can often be discerned from the type and layout of structures visible in the photographs. However, specific elements of a facility's operation usually cannot be discerned from aerial photographs alone. The following table summarizes Stantec's observations of the reviewed historical aerial photographs.

Year	Scale	Observations, Property and Adjoining Properties
1954	unknown	The town of Boron is located north of the eastern portion of the Property, and Twenty Mule Team Road is observable dissecting the town. A cleared section of land, in the form of a runway, is located in the northern section of CUP Area 2. There is surficial working activity located in the southern portion of CUP Area 2 of the Property, likely a borrow pit or small mining operation. A railroad track is located in the area of southern portion of the Property. No activity is observable within CUP Area 3 or 4 of the Property. The remainder of the Property, and surrounding area, appears to be largely vacant land.
1972, 1977	unknown	The town of Boron has grown in size, and the town of Desert Lake is now observable in the western area of the Property. Highway 58 is now located along the north side of these communities. Large cleared areas with linear features, possible drainage canals, are located in the southern portion of CUP Area 3 of the Property. A large pond is located adjacent to the northeast Property boundary. A large soil stockpile, various small structures, a large stained area, and linear drainage patterns are observable in the southwestern portion of CUP Area 3 of the Property. It appears that the stockpile is loaded onto railcars on the spur track for off-site transport. Two linear features, possibly seepage ponds, are located south of Boron within CUP Area 1 of the Property. The runway area is no longer visible within CUP Area 2.
1984	unknown	The Property and surrounding area looks very similar to the previous photograph. The structures located in the southwestern portion of CUP Area 3 of the Property appear to have been removed, and activities appear to have ceased in this area. The large soil stockpile remain within this area. The linear suspect seepage ponds have been removed within CUP Area 1, and have been replaced with a cleared, fenced area. This is the location of the Boron landfill.
1994, 2005, 2012, 2016	unknown	The Property remains largely similar to the previous photograph. Various surficial drainage details change over the photograph years; however, no substantial changes are observable within the Property boundaries. Small changes are visible within the communities of Boron and Desert Lake.

4.4.3 City Directories

No city directories were available for the Property.

4.4.4 Historical Fire Insurance Maps

Fire insurance maps were developed for use by insurance companies to depict facilities, properties, and their uses for many locations throughout the United States. These maps provide information on the history of prior land use and are useful in assessing whether there may be potential environmental contamination on or near the Property. These maps, which have been periodically updated since the late 19th century, often provide valuable insight into historical Property uses.



Stantec requested fire insurance maps from [Third Party Supplier Name]; however, no coverage exists for the Property. The Sanborn® Map Search Report indicating “no coverage” is presented in Appendix E.

4.4.5 Historical Topographic Maps

Stantec reviewed historical identify map USGS 7.5-minute Topographic Maps of the Boron, California Quadrangle (scale 1:24,000) to help identify past Property usage and areas of potential environmental concern.

Multiple RECs were identified during review of these maps including a railroad line traversing through portions of the Property and a “Target” located along the southern Property boundary. Details pertaining to the findings are listed below. Copies of the historical maps are provided in Appendix E. The following table summarizes the maps reviewed and our observations.

Year	Scale	Observations, Property and Adjoining Properties
1937	1:24,000	This map shows the southern eastern portion of the Property (Areas B and C). A railroad line is shown traversing through the Property area. The towns of Rich and Amargo are depicted to the south end north of the Property, respectively. The topography is sloping to the north.
1942 – 1943	1:24,000	This map shows the same area of the previous map (southeastern portion of the Property). No additional details are shown on this map from the previous map.
1947	1:24,000	Multiple dirt roads are shown traversing through the southern Property parcels. The town of Boron is shown north of the Property. Multiple structures are depicted within the town’s limits. A “Military Reservation (Approximate)” line is shown near the southern Property boundary. No activity appears to be present in the northern Property area.
1954 – 1956	1:24,00	The map shows the southeastern and central portion of the Property. A “Clay Plant”, with what appears to be a depression or pond, is depicted in the south western portion of the Property CUP Area 3 near the railroad line. A “Pipeline” marking is shown traversing west – east through the southern Property parcels. A “Target” is shown along the southern Property boundary. A “Radio Range Station” is shown in northern Property parcels located north of Highway 58.
1973	1:24,000	The Property configuration is unchanged from the previous map. The “Clay Plant” label has been removed, but a depression or pond is still depicted in the area. The “Target” located along the southern Property boundary has been removed. The community of “Desert Lake” is now shown on the map between Highway 58 and Twenty Mule Team Road. Multiple wells are depicted on the northern Property parcels located north of Highway 58. A “Sewage Treatment Pond” is shown along the eastern Property boundary of the Northern Property parcels.
2012	1:24,000	All structures have been removed from the map. The Property configuration appears to be unchanged from the previous map. No structures or other labels are depicted on any of the Property parcels.

Records Review

Name of maps and source: EDR, 2019.

4.4.6 Other Historical Sources

The User provided Stantec with a report for the historical munitions target located in the southern portion of the Property. The report was prepared by BayWest, an unexploded ordinance company, and is summarized below.

RE: Peak Valley Solar Farm Project, Kern County, CA – Executive Summary Letter Report, prepared by BayWest Inc., dated January 28, 2019.

This letter provides an overview of the munitions studies and remedial activities that have occurred at the Peak Valley Solar Farm Project, located in Kern County. Peak Valley is the former name of the Aratina Solar Farm Project (the Property). In 2005 and 2006, the United States Army Corps of Engineers contracted BayWest to conduct a Comprehensive Site Evaluation (CSE) Phase I to characterize the potential presence of Munitions and Explosives of Concern (MEC) and to evaluate actual or potential releases of Munition Constituents (MC) in the area of the former PB-9 target, which are located within the Munitions Response Site (MRS) AL505-2, located in the southern portion of the Property. In 2007, BayWest performed a CSE Phase II investigation to determine whether additional munitions response activities were warranted based on the results of the CSE Phase I. The CSE Phase II included soil samples and analyses of MC, explosives, and metals. The results of the CSE Phase II investigation found no MEC or materials potentially presenting an explosive hazards (MPPEH) onsite. Additionally, BayWest concluded that no MEC or MPPEH is expected to be found in the future, based on historical records of site utilization by the Department of Defense. BayWest did identify the presence of munitions debris (MD) associated with the PB-9 bombing target.

AL505-2 was split into separate sites: AL505-2a (east and west outer portions away from the PB-9 target) and AL505-2 (central portion at and around the PB-9 target). AL505-2a was recommend for No Further Action (NFA) in 2012 and was later removed from the MMRP inventory by the Department of Defense Explosive Safety Board (DDESB) in March 2017. AL505-2 (central portion) was recommended to proceed with additional studies, including a Remedial Investigation / Feasibility Study (RI/FS).

From March-June 2012, a Non-Time Critical Removal Action (“NTCRA”) Surface Clearance was conducted, resulting in the identification and removal of MD and non-munitions related debris (“NMRD”) from the site, however no MEC items were identified. Subsequently a Remedial Investigation/Feasibility Study was conducted in December 2015, and again no MEC were found.

In February 2018, a draft RI/FS report was submitted to the Air Force and California regulators recommending NFA and that the site be removed from the MMRP inventory. The draft report is awaiting formal comments and/or approval.

The Kern County Sheriff’s office was contacted to determine if any reports had been filed reporting munitions on the property since the RI investigation had been completed. There were no reports of found munitions reported for the property.

Furthermore, BayWest recommended the following, at a minimum:

- All site workers are given unexploded ordnance ("UXO") Awareness training by a DDESB Technical Paper 18 qualified UXO technician as part of the safety program. This training would focus on the munitions items that have previously been identified and associated with the site, including the condition they are likely to be found in.
- In the event a munitions item is recovered follow notification procedures identified in the UXO Awareness training. Recognize, Retreat and Report the munitions item, initial report will be to California Highway Patrol ("CHP") office in Bakersfield, CA office, phone number (661)396-6600. CHP will make notification to Edwards AFB Base Explosive Ordnance Disposal ("EOD") unit.
- Any ground disturbance activities occurring within 1,000 feet of the historical PB-9 target should include construction support by a minimum of two DDESB Technical Paper 18 qualified UXO technicians. This would allow the opportunity for real-time surveillance of ground disturbing activities and an assessment of anomalous debris to be conducted immediately.

There is no known MEC at AL505-2. Only MD was identified during the RI. There were no detected levels of MC in soil that were above the human health screening levels used to evaluate potential risk to human receptors during the CSE phase of investigation, and no additional sampling has been warranted/performed at the MRS.

Environmental sampling performed during the CSE Phase II within AL505-2 does not indicate that a potential risk to ecological receptors is present based on comparison to available ecological screening levels. The RI did not encounter any new information or collect new data for the MRS that changes this conclusion.

Given that munitions debris has been historical identified in the area of the historical PB-9 munitions target, encountered additional munitions debris during development activities at the Property is considered likely. Therefore, Stantec recommends that a certified UXO company be present during development in this area of the Property. Additionally, should UXO of MD be identified during Property development, a certified UXO contactor (*i.e.* BayWest) should be contacted.

5.0 SITE RECONNAISSANCE

A visit to the Property and its vicinity was conducted by Joshua Sargent, Geologic Project Specialist with Stantec, on February 15, 2019. Access to the Property was coordinated with Alex Sundquist, Vice President of Land Development for 8minute Solar Energy. Stantec was unaccompanied during the Property visit. Figure 2 provides information about the Property and adjoining properties and the location of potential areas of environmental concern. Detailed Property features are provided on Figures 3 through 5. Photographs collected during the Property visit are included in Appendix A.

5.1 SITE RECONNAISSANCE METHODOLOGY

The site reconnaissance focused on observation of current conditions and observable indications of past uses and conditions of the Property that may indicate the presence of RECs. The reconnaissance of the Property was conducted on foot and Stantec utilized the following methodology to observe the Property:

- Traverse the outer Property boundary.
- Traverse transects across the Property.
- Traverse the periphery of all structures on the Property.
- Visually observe accessible interior areas expected to be used by occupants or the public, maintenance and repair areas, utility areas, and a representative sample of occupied spaces.

Weather conditions during the visit to the Property were clear and sunny. There were no weather-related Property access restrictions encountered during the reconnaissance visit.

5.2 GENERAL DESCRIPTION

Property and Area Description:	The Property consists of a corridor of land parcels located north and south of Twenty Mule Team Road near the communities of Boron and Desert Lake, Kern County, California. These parcels are largely contiguous and are only separated by Twenty Mule Team Road and Highway 58.
Property Operations.	The Property is currently vacant land with no observable uses.
Structures, Roads, Other Improvements:	Multiple dirt roads are located throughout the entirety of the Property. No usable buildings were observed within the Property boundaries. Multiple burnt and largely destroyed buildings were observed in the southwestern portion of the Property within CUP Area 2.
Property Size (acres):	Approximately 2,667 acres
Estimated % of Property Covered by Buildings and/or Pavement:	0%
Observed Current Property Use/Operations:	Vacant Land with multiple natural gas pipelines and associated valve stations.
Observed Evidence of Past Property Use(s):	Vacant Land; historical quarry located in the southwestern portion of Property CUP Area 2.

Sewage Disposal Method (and age):	Unknown
Potable Water Source:	Unknown
Electric Utility:	Unknown

5.3 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

The following table summarizes Stantec's observations during the Property reconnaissance.

Observations	Description/Location
Hazardous Substances and Petroleum Products as Defined by CERCLA 42 U.S.C. § 9601(14):	Abundant signage for underground natural gas pipelines were observed throughout the Property.
Drums (≥ 5 gallons):	None observed.
Strong, Pungent, or Noxious Odors:	None detected.
Pools of Liquid:	None observed.
Unidentified Substance Containers:	None observed.
PCB-Containing Equipment:	None observed.
Other Observed Evidence of Hazardous Substances or Petroleum Products:	Multiple underground natural gas pipelines, and associated valve stations, are present throughout the Property.

5.4 INTERIOR OBSERVATIONS

No buildings are present within the Property boundaries which were enterable or habitable. Structures which were within natural gas valve stations were not accessible during the site visit.

5.5 EXTERIOR OBSERVATIONS

Stantec made the following observations during the site reconnaissance of exterior areas of the Property and/or identified the following information during the interview or records review portions of the assessment:

Observations	Description
On-site Pits, Ponds, or Lagoons:	None observed.
Stained Soil or Pavement:	Stained soils was observed near a valve station within CUP Area 3 of the Property. The stained soils were approximately 4 feet in diameter, appeared to be sources from multiple small oil and lubricant containers, and appeared to be surficial.
Stressed Vegetation:	None observed.

Observations	Description
Waste Streams and Waste Collection Areas:	Numerous areas of dumping were observed throughout the southern Property parcels. The debris within the dumping areas contained cans, furniture, and various appliances.
Solid Waste Disposal:	Numerous areas of dumping were observed throughout the southern Property parcels. The debris within the dumping areas contained cans, furniture, and various appliances.
Potential Areas of Fill Placement:	A large mound of soil, or sand, was observed in the southwestern portion of CUP Area 2. This area is thought to have been a historical quarry area.
Wastewater:	No exterior wastewater discharge was observed.
Stormwater:	No stormwater discharge was observed during the Property visit.
Wells:	Three water wells were observed within the southern Property parcels, and three water wells were observed within the northern Property parcels. If these wells are no longer to be used, they should be abandoned in accordance with government agency regulations.
Septic Systems:	No visible evidence of the existence of a septic system was observed.
Other Exterior Observations:	A small firearms range was observed in the southeastern portion of the Property within CUP Area 1. This range extended approximately ¼-mile.

5.6 UNDERGROUND STORAGE TANKS/STRUCTURES

Existing USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), which would indicate the presence of USTs, was discovered during the site reconnaissance.
Former USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), reports, or other evidence of the former presence of USTs was discovered during this Phase I ESA.
Other Underground Structures:	Abundant signage for underground natural gas pipelines were observed throughout the Property. The location of this pipeline, and associated easements, should be confirmed prior to initiation of construction activities.

5.7 ABOVEGROUND STORAGE TANKS

Existing ASTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), which would indicate the presence of ASTs, was discovered during the site reconnaissance.
Former ASTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), reports, or other evidence of the former presence of ASTs was discovered during this Phase I ESA.

5.8 ADJOINING PROPERTIES

5.8.1 Current Uses of Adjoining Properties

As viewed from the Property and/or from public rights-of-way, Stantec made the following observations about use and activities on adjoining properties:

NORTH	Vacant land
EAST	Vacant land
SOUTH	Vacant land, and Edwards Air Force Base.
WEST	Vacant land

Refer to Figures 2 through 5.

5.8.2 Observed Evidence of Past Uses of Adjoining Properties

Observations of adjoining properties providing indications of past use and activities, if any, are described below.

NORTH	None observed.
EAST	None observed.
SOUTH	None observed.
WEST	None observed.

5.8.3 Pits, Ponds or Lagoons on Adjoining Properties

As viewed from the Property and/or from public rights-of-way, Stantec made the following observations about the presence of pits, ponds and lagoons on adjoining properties:

NORTH	None observed.
EAST	None observed.
SOUTH	None observed.
WEST	None observed.

5.9 OBSERVED PHYSICAL SETTING

Topography of the Property and Surrounding Area:	The elevation of the Property is at an average elevation of approximately 2485 feet above mean sea level (amsl). The Property is generally flat, with a regional topographic gradient to the north, away from Leuhman Ridge (USGS, 1974). Base on topography, surface water on the Property infiltrates the ground surface. Several low-lying areas are present at the Property, discernable by the accumulation of rainwater and collection of fine-grained sediment material, creating small playas.

6.0 INTERVIEWS

Stantec did not conduct interviews with any persons in connection with this investigation.

7.0 EVALUATION

This section provides a summary overview of or Findings, Opinions, and Conclusions.

7.1 FINDINGS AND OPINIONS

Information gathered from interviews, reviews of existing data, and a property inspection was evaluated to determine if RECs are present in connection with the Property. Based on this information, Stantec made the following findings and developed the following opinions.

Finding 1: **Adjacent Boron Landfill.** The Boron Municipal Landfill, operated by Kern County, is located in the south eastern portion of the Property, near CUP Area 1. Although the landfill is not a part of the Property, the Property boundaries nearly fully enclose the landfill facility. A historical release of VOCs occurred from the landfill operations during the1990's which contaminated groundwater beneath the facility. Groundwater monitoring has been performed since the discovery of the VOCs in groundwater. According to a 2018 groundwater sampling report for the landfill, the VOC compounds in shallow groundwater near the landfill facility have natural attenuated to concentrations below the California Maximum Contaminant Levels (MCLs).

According to documents reviewed on the California State Water Resources Control online database base Geotracker, no landfill gas collection system currently operates at this facility. However, landfill gas monitoring is performed at vapor well locations surrounding the facility. According to the most-recent monitoring report, no landfill gas (*i.e.* methane) was detected above action levels.

Opinion 1: The presence of the landfill facility adjacent to the Property is considered a REC to the Property. Although no landfill gas collection systems are currently operating at the Property, and recent landfill gas monitoring has shown that landfill gases are not leaving the Property at levels of concerns, Stantec recommends collecting soil vapor data within the Property boundaries to confirm no soil vapor impacts are present from this facility.

Finding 2: **Historical Target Site PB-9.** A historical target identified as "PB-9" was used by Edwards Air Force Base and was located along the southern Property boundary. The User provided a report for this Target prepared by BayWest. In BayWest's report, "identification and removal of munitions debris and non-munition related debris" was performed in portions of the Property in 2012.

Opinion 2: The historical target is considered a HREC to the Property. Although the BayWest summary report was provided to Stantec for review, Stantec recommends a more comprehensive file review by an authorized unexploded ordinance (UXO) firm (i.e. BayWest) relating to the target PB-9 area of the Property. Additionally, Stantec

recommends that a certified UXO company to present during the development of this portion of the Property.

Finding 3: **Underground Natural Gas Pipelines.** There are multiple underground natural gas pipelines running through portions of the Property, with associated valve stations, operated by Pacific Gas & Electric (PG&E) and other companies. It is understood that this infrastructure will remain in-place during the Property development.

Opinion 3: Various leak-identification systems are in-place at these pipeline facilities. It is unlikely that these pipelines have leaked. Therefore, the presence of the pipeline facilities are not considered a REC to the Property. However, civil engineers should be contacted to determine, and confirm, the locations of the underground pipeline and the required easements prior to any ground disturbance.

Finding 4: **Railroad Line.** A historical rail line is located in the southwestern area of the Property, near CUP Area 3, currently being used by the U.S. Borax mine as a staging and loading area. Application of herbicides along railroad corridors is common. These herbicides are known to contain metal drying agents.

Opinion 4: The accumulation of heavy metals, including lead and arsenic, are known to occur within shallow soils where historical herbicide application was performed. Due to the rail line being located outside of the proposed Property boundary, the presence of the railroad line is not considered a REC. Stantec recommends no additional investigation regarding the rail line.

Finding 5: **Shooting Range.** Stantec identified a shooting range in the southeastern portion of the Property, within CUP Area 1. The shooting range is approximately ¼-mile in length and contains multiple targets for small munitions (handgun and rifle).

Opinion 5: The accumulation of heavy metals from small munitions within shallow soils of the shooting range area are considered likely. Therefore, the shooting range is considered a REC to the Property. Stantec recommends performing a shallow soil assessment in the areas of targets within the shooting range to characterize possible metals impacts to shallow soils in these areas.

Finding 6: **Site 371.** According to the State Water Resources Control online database Geotracker, an Edwards Air Force Base identified as Site 371 is located in the southwestern portion of CUP Area 3 of the Property. The case listing is for the removal of an underground storage tank (UST). After a thorough review of Waterboard case files, and Department of Defense files, it is believed this case location is mis-plotted on the Geotracker database and is actually located within the limits of the base (located outside of the Property boundaries).

Opinion 6: Although no maps were identified showing details for this Site 371, multiple small-scale maps of Edwards Air Force Base sites, including Site 371, were found. These maps show the location of Site 371 outside of the Property boundaries. Therefore, this listing is

not considered to be a REC to the Property. Therefore, Stantec recommends no further investigating regarding this listing.

Finding 7: **Large Sand Stockpile.** A large sand stockpile is located in the southwestern portion of CUP Area 2 of the Property. In this same area, several historical structures are present, and are currently burnt down. The operations and activities in this area are unknown, but likely related to a historical quarry/mining operation.

Opinion7: The presence of the sand stockpile is considered a de minimis condition, and not a REC to the Property. However, Stantec recommends profiling the material and disposing from the Property prior to development.

Finding 8: **Dumping Areas.** There are several areas of municipal waste disposal (dumping) throughout the southern Property parcels. Items in these areas consist of metals cans, furniture, and appliances.

Opinion 8: The presence of the dumping areas throughout the southern parcels are considered a de minimis condition to the Property and not a REC. Stantec recommends removing the materials from these areas prior to development.

Finding 9: **Water Wells.** Multiple water wells were identified at the Property. The depth and use of these wells are unknown.

Opinion 9: The presence of the water wells are not considered a REC to the Property. However, Stantec recommends the wells be properly abandoned in accordance with all applicable permits and local and state regulations as part of the Property development.

7.2 DATA GAPS

The federal AAI final rule [40 CFR 312.10(a)] and ASTM E1527-13 identify a “data gap” as the lack or inability to obtain information required by the standards and practices of the rule despite good faith efforts by the Environmental Professional or the User.

Any data gaps resulting from the Phase I ESA described in this report are listed and discussed below.

Gap	Discussion
Deletions or Exceptions from Scope of Work:	None
Weather-Related Restrictions to Site Reconnaissance:	None
Facility Access Restrictions to Site Reconnaissance:	None
Other Site Reconnaissance Restrictions:	None

Evaluation

Gap	Discussion
Data Gaps from Environmental Records Review:	None
Data Gaps from Historical Records Review:	None
Data Gaps from Interviews:	None
Other Data Gaps:	None

7.3 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of a corridor of land parcels located north and south of Twenty Mule Team Road near the communities of Boron and Desert Lake, Kern County, California, the Property. Any exceptions to, or deletions from, this practice are described in Section 2.3 of this report. This assessment has revealed the following evidence of recognized environmental conditions in connection with the Property:

Conditional Use Permit Area 1

Adjacent Boron Landfill. The Boron Municipal Landfill, operated by Kern County, is located in the south eastern portion of the Property, near CUP Area 1. Although the landfill is not a part of the Property, the Property boundaries nearly fully enclose the landfill facility. A historical release of VOCs occurred from the landfill operations during the1990's which contaminated groundwater beneath the Property. Groundwater monitoring has been performed since the discovery of the VOCs in groundwater. According to a 2018 groundwater sampling report for the landfill, the VOC compounds in shallow groundwater near the landfill have natural attenuated to concentrations below the California Maximum Contaminant Levels (MCLs).

According to documents reviewed on the California State Water Resources Control online database base Geotracker, no landfill gas collection system currently operates at this facility. However, landfill gas monitoring is performed at vapor well locations surrounding the facility. According to the most-recent monitoring report, no landfill gas (*i.e.* methane) was detected above action levels.

The presence of the landfill facility adjacent to the Property is considered a REC to the Property. Although no landfill gas collection systems are currently operating at the Property, and recent landfill gas monitoring has shown that landfill gases are not leaving the Property at levels of concerns, Stantec recommends collecting soil vapor data within the Property boundaries to confirm no soil vapor impacts are present from this facility.

Shooting Range. Stantec identified a shooting range in the southeastern portion of the Property, within CUP Area 1. The shooting range is approximately ¼-mile in length and contains multiple targets for small munitions (handgun and rifle).

The accumulation of heavy metals from small munitions within shallow soils of the shooting range area are considered likely. Therefore, the shooting range is considered a REC to the Property. Stantec recommends performing a shallow soil assessment in the areas of targets within the shooting range to characterize possible metals impacts to shallow soils in these areas.

De minimis condition

Multiple soil and other debris dumping areas were observed near the Proposed Property boundary south of this facility. Stantec recommends removing the materials that are within the Property boundaries prior to Property development.

Conditional Use Permit Area 2

Historical Target Site PB-9. A historical target identified as "PB-9" was used by Edwards Air Force Base and was located along the southern Property boundary. The User provided a report for this Target prepared by BayWest. In BayWest's report, "identification and removal of munitions debris and non-munition related debris" was performed in portions of the Property in 2012.

The historical target is considered a HREC to the Property. Although the BayWest summary report was provided to Stantec for review, Stantec recommends a more comprehensive file review by an authorized unexploded ordinance (UXO) firm (i.e. BayWest) relating to the target PB-9 area of the Property. Additionally, Stantec recommends that a certified UXO company to present during the development of this portion of the Property.

Conditional Use Permit Area 3

No RECs identified.

Conditional Use Permit Area 4

No RECs identified.

Conditional Use Permit Area 5

No RECs identified.

8.0 NON-SCOPE CONSIDERATIONS

The scope of work completed was limited solely to those items in the ASTM E1527-13 standard. No ASTM E1527-13 non-scope services were performed as part of this Phase I ESA.

8.1 LEAD-BASED PAINT

Concern for lead-based paint (LBP) is primarily related to residential structures. The EPA's Final Rule on Disclosure of Lead-Based Paint in Housing (40 CFR Part 745) defines LBP as paint or other surface coatings that contain lead equal to or in excess of 1.0 milligram per square centimeter or 0.5 percent by weight.

The risk of lead toxicity in LBP varies based upon the condition of the paint and the year of its application. The U.S. Department of Housing and Urban Development (HUD) has identified the following risk factors:

- The age of the dwelling as follows: maximum risk is from paint applied before 1950.
- There is severe risk from paint applied before 1960.
- There is moderate risk from deteriorated paint applied before 1970.
- There is slight risk from the paint that is intact but applied before 1977.
- The condition of the painted surfaces.
- The presence of children and certain types of households in the building.
- Previously reported cases of lead poisoning in the building or area.

Construction Date	Residential (Yes/No)	Observed Condition of Painted Surfaces
Unknown	No	All structures identified at the Property are located in the southwestern portion of CUP Area 2 and are burnt down to grade and are not habitable. Stantec recommends that these materials be sampled for the presence of LBP prior to disposal to an off-site facility.

8.2 ASBESTOS

Asbestos can be found in many applications, including sprayed-on or blanket-type insulation, pipe wraps, mastics, floor and ceiling tiles, wallboard, mortar, roofing materials, and a variety of other materials commonly used in construction. The greatest asbestos-related human health risks are associated with friable asbestos, which is ACM that can be reduced to powder by hand pressure. Friable asbestos can become airborne and inhaled, which has been associated with specific types of respiratory disease. The manufacturing and use of asbestos in most building products was curtailed during the late 1970s.

Stantec makes no warranty as to the possible existence or absence of inaccessible materials or to their evaluation with respect to asbestos content. Samples of suspect ACM should be collected for laboratory analysis of asbestos prior to any renovation or building demolition to be compliant with, EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) regulations.

8.3 FLOOD ZONES

Stantec searched the FEMA flood plain map service at www.msc.fema.gov. According to the interactive map on the website, portions of the Property are within 500-year and 100-year flood zone areas.

8.4 PESTICIDES

Former agricultural use was not identified at the Property. No documentation of commercial on-site use of agricultural chemicals (e.g., pesticides, insecticides, fertilizers, or herbicides) was discovered during this ESA. Stantec did not identify apparent agricultural chemical processing areas, such as crop-dusting airfields, bulk mixing areas; or repacking, transfer, or agricultural chemical storage areas in the aerial photographs that were reviewed during this ESA.

9.0 REFERENCES

American Society for Testing and Materials, 2015, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, Designation E 2600-15.

American Society for Testing and Materials, 2013, Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Designation: E 1527-13.

California Department of Conservation Division of Mines and Geology (CDMG), 1963, Geologic Map of California: Boron Sheet.

California Department of Conservation Division of Mines and Geology (CDMG), 1986, Note 36 Geomorphic Provinces of California, May.

Department of Defense, Defense Technical Information Center, online database website: https://discover.dtic.mil/

Division of Oil, Gas, and Geothermal Resources, Well Finder website: http://www.conservation.ca.gov/dog/Pages/Wellfinder.aspx

Environmental Data Resources, Inc. (EDR), EDR Area / Corridor Report, Inquiry Number 5601598.2s, dated March 26, 2019.

_____, EDR Historical Topo Map Report, Inquiry Number 5567832.5, dated February 22, 2019.

_____, EDR Historical Aerial Report, Inquiry number 5567832.6, dated February 22, 2019.

_____, EDR DataMap Well Search Report, Inquiry Number 5567832.2w, dated February 20, 2019.

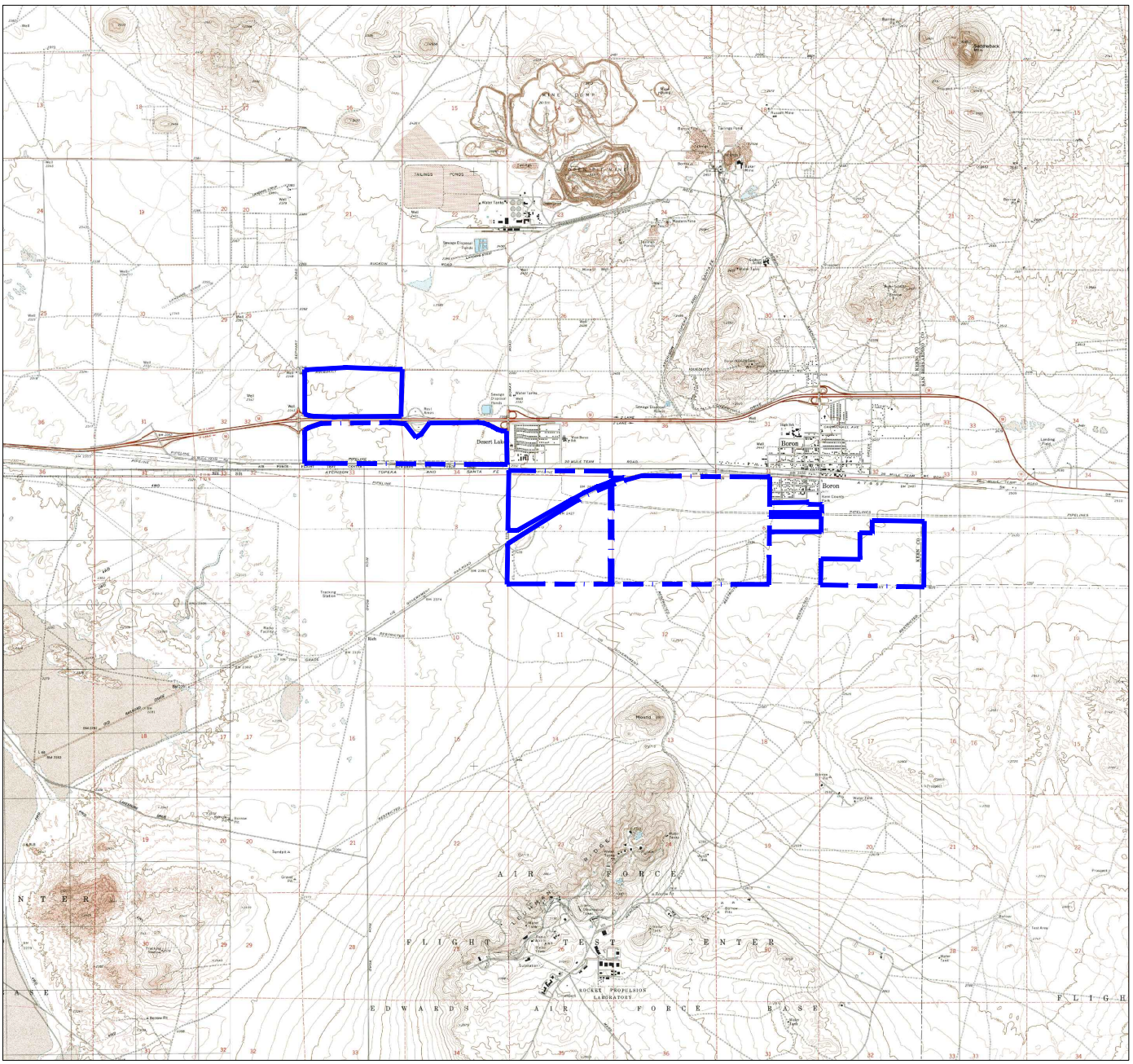
California Military Department, State Military Museums website: http://www.militarymuseum.org

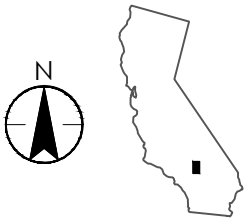
Department of Toxic Substances Control (DTSC), Envirostor website: https://www.envirostor.dtsc.ca.gov/public/

State Water Resources Control Board, GeoTracker website: https://geotracker.waterboards.ca.gov/

US EPA, Map of Radon Zones, Interactive Radon Map, website: https://www.epa.gov/radon/epa-map-radon-zones

FIGURES





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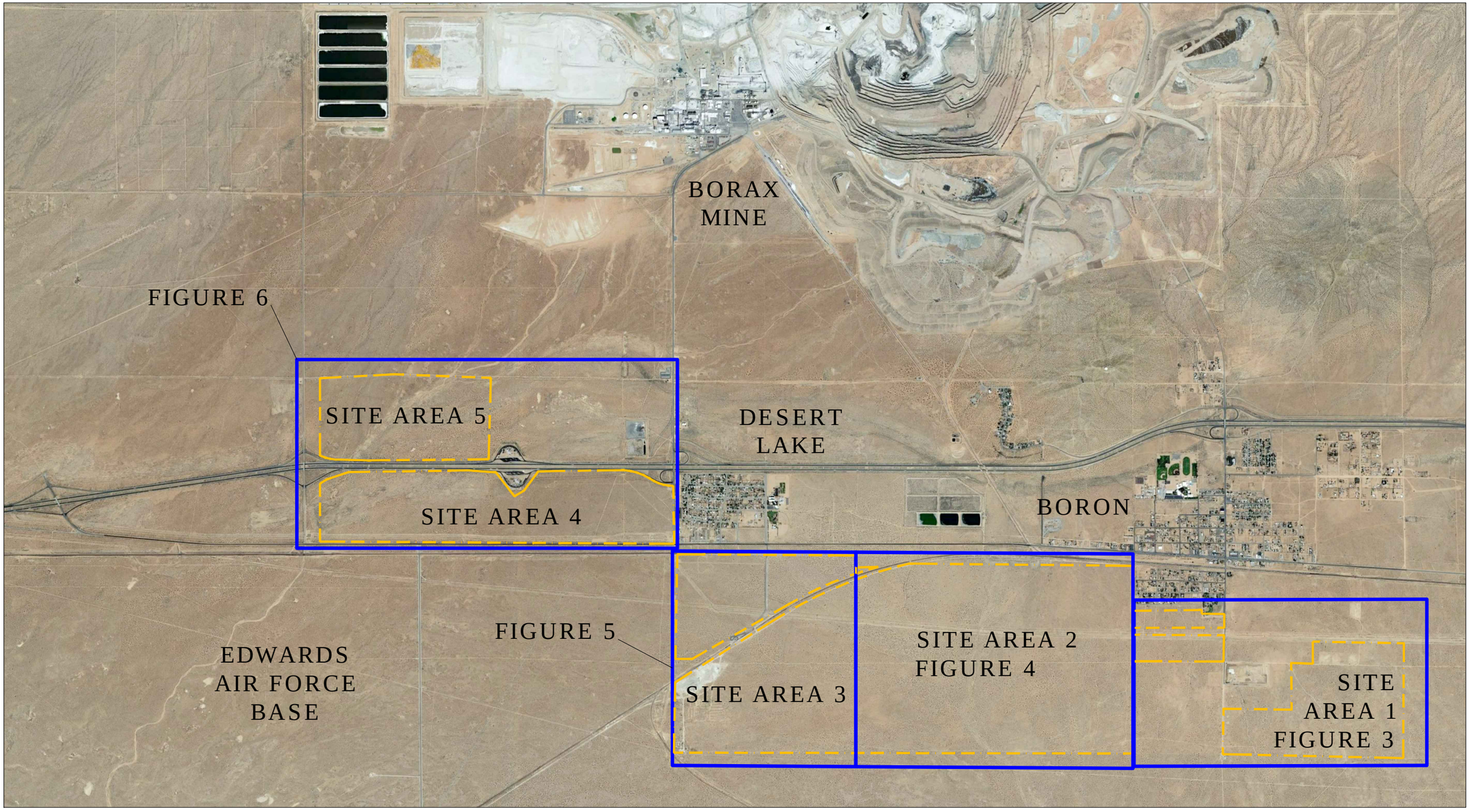
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FOR:		PROPERTY LOCATION MAP		FIGURE:
ARATINA SOLAR FARM PROJECT KERN COUNTY, CALIFORNIA				1
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LEGEND

APPROXIMATE LIMITS OF PROPERTY

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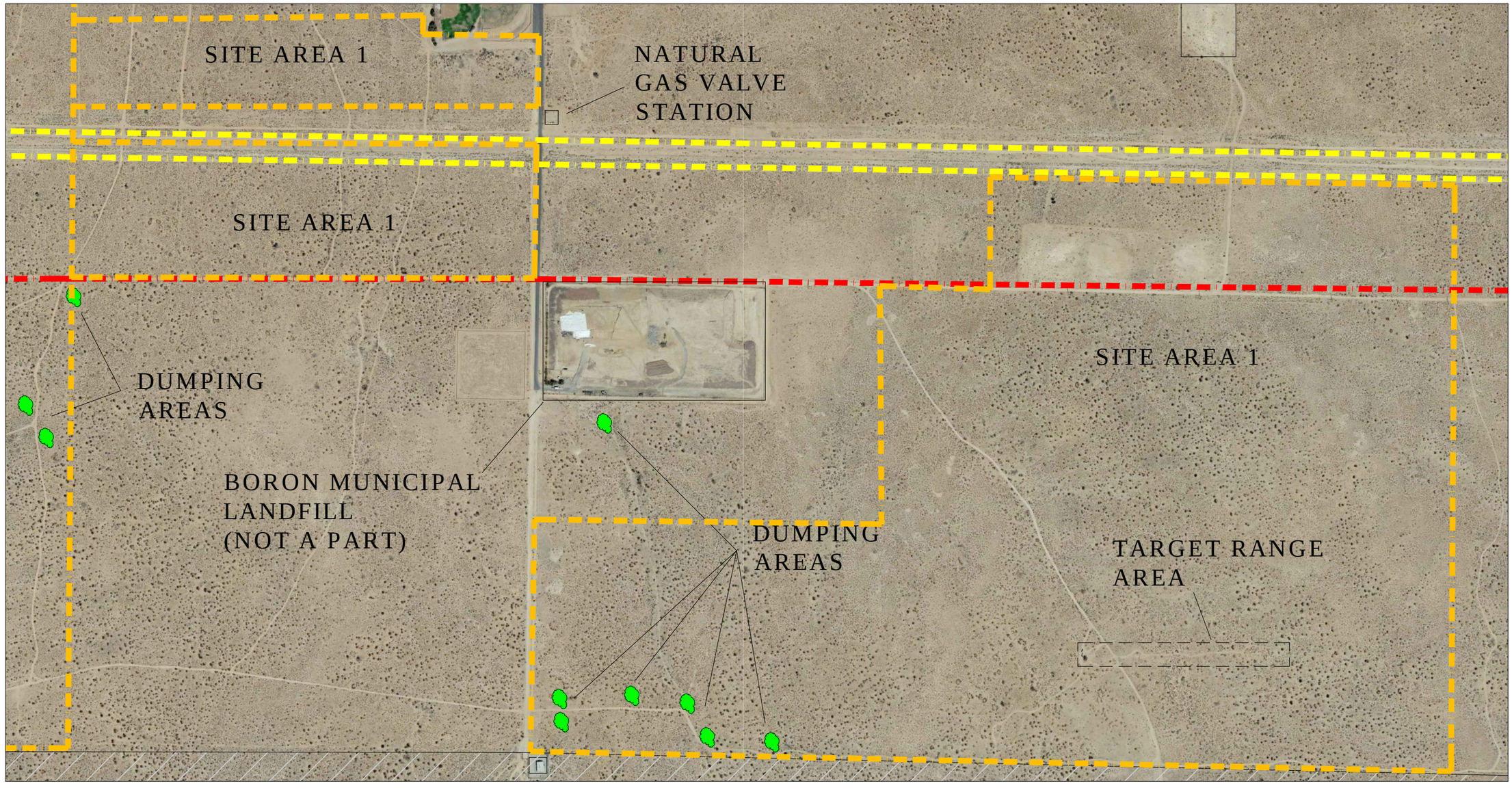
FOR:
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KERN COUNTY, CALIFORNIA

PROPERTY AREA AND VICINITY MAP

FIGURE: 2

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LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- APPROXIMATE LOCATION OF UNDERGROUND NATURAL GAS PIPELINE
- APPROXIMATE LOCATION OF ABOVEGROUND POWER UTILITIES

N

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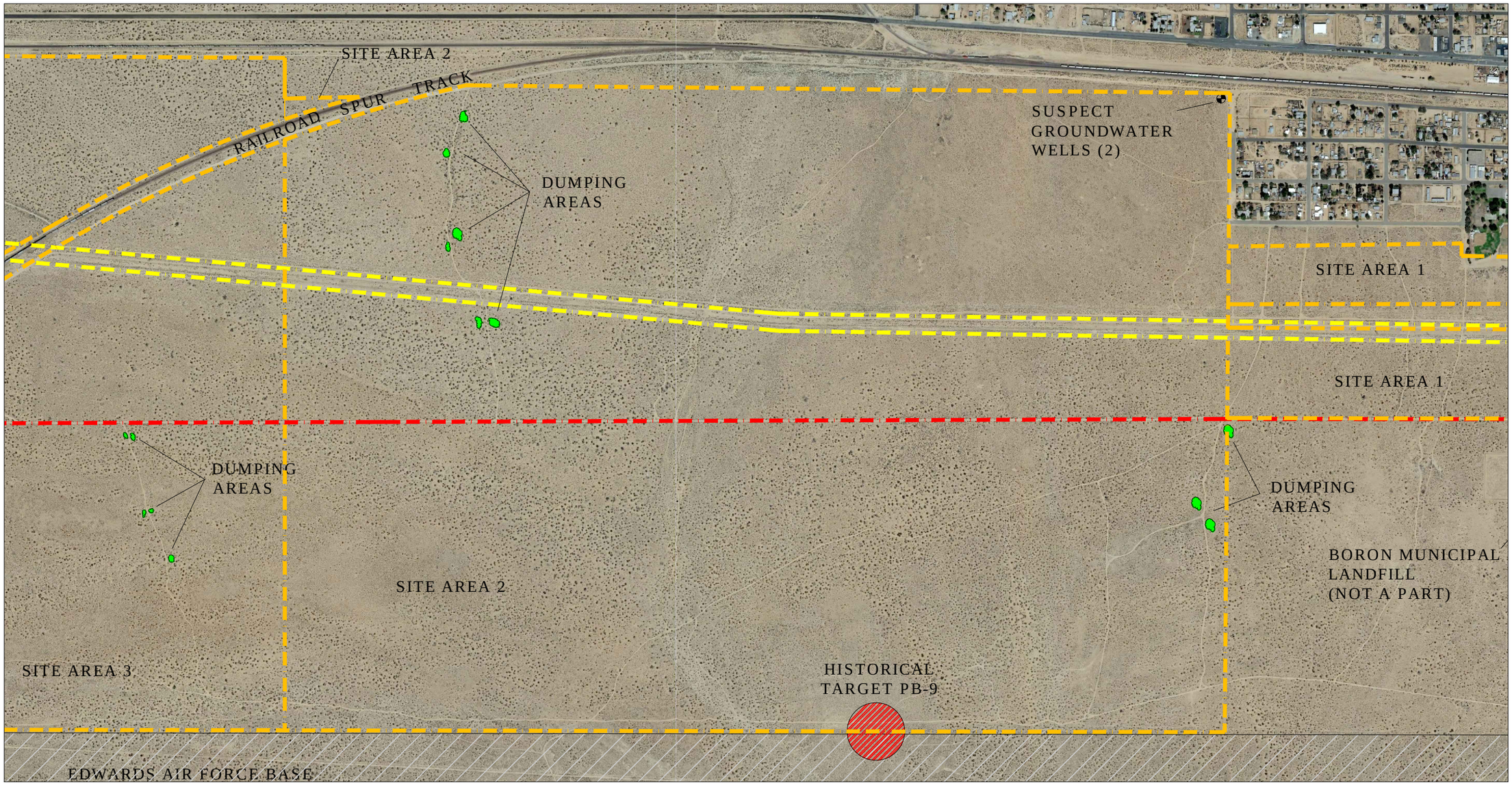
FOR: ARATINA SOLAR FARM PROJECT
KERN COUNTY, CALIFORNIA

PROPERTY DETAIL MAP - SITE AREA 1

FIGURE: 3

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LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- APPROXIMATE LOCATION OF UNDERGROUND NATURAL GAS PIPELINE
- APPROXIMATE LOCATION OF ABOVEGROUND POWER UTILITIES

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N

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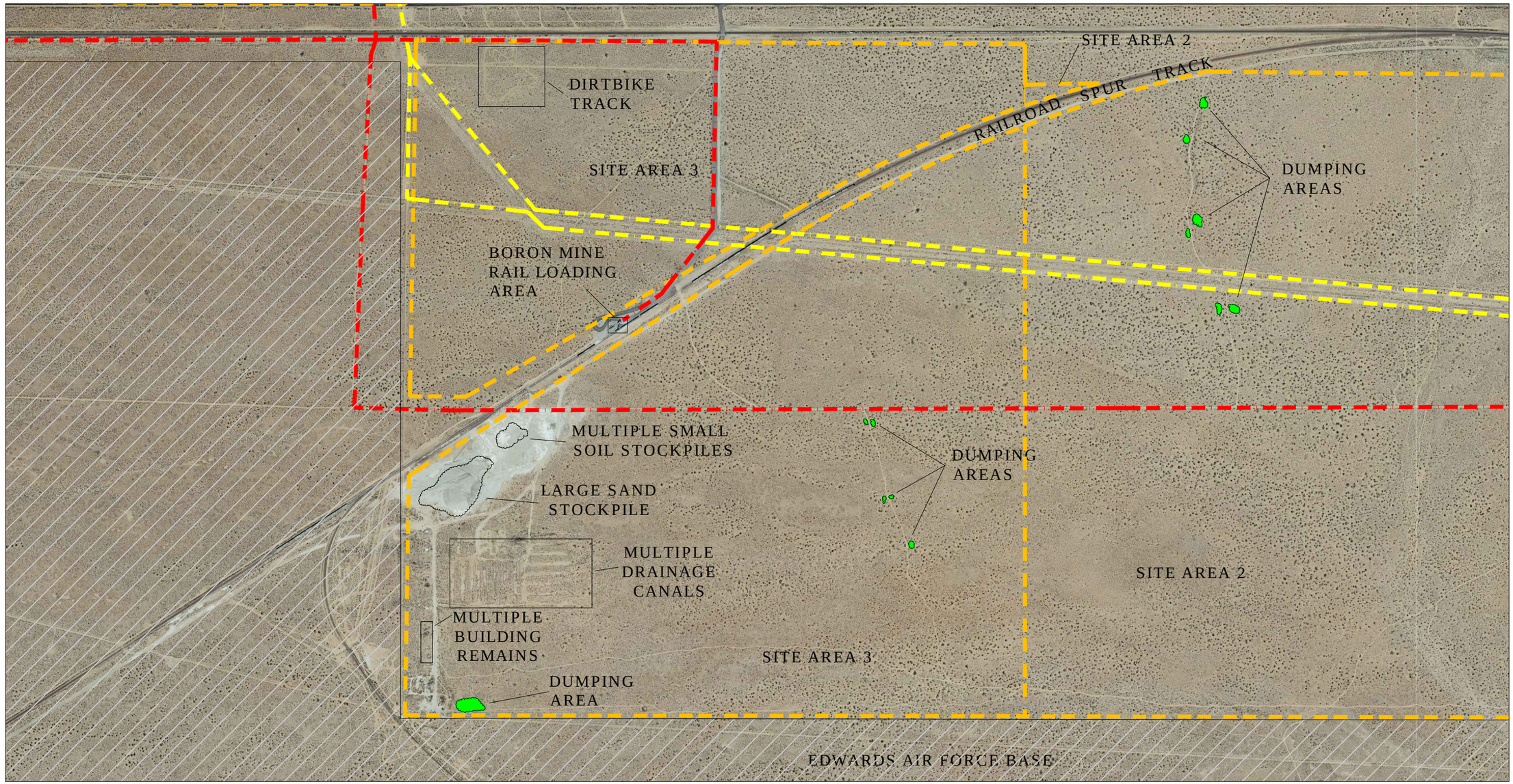
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PROPERTY DETAIL MAP - SITE AREA 2

FIGURE: 4

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LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- APPROXIMATE LOCATION OF UNDERGROUND NATURAL GAS PIPELINE
- APPROXIMATE LOCATION OF ABOVEGROUND POWER UTILITIES

N

0 750 1500

SCALE (FEET)

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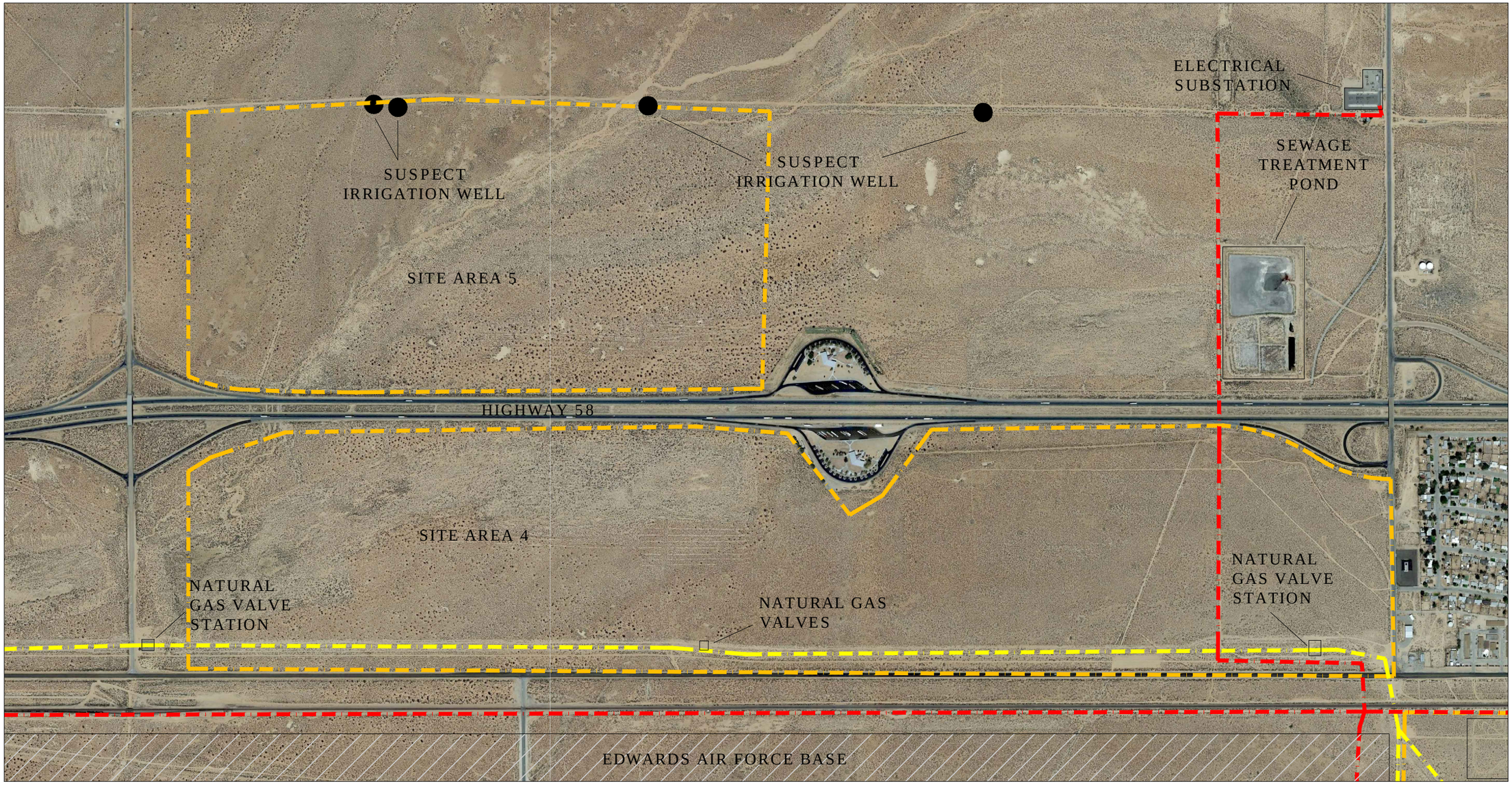
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PROPERTY DETAIL MAP - SITE AREA 3

FIGURE: 5

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LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- APPROXIMATE LOCATION OF UNDERGROUND NATURAL GAS PIPELINE
- APPROXIMATE LOCATION OF ABOVEGROUND POWER UTILITIES

N

0 750 1500

SCALE (FEET)

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PROPERTY DETAIL MAP - SITE AREAS 4 AND 5

FIGURE: 6

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APPENDICES

Appendix A Photographs of the Property and Vicinity



Photo #1 Overview of the Property. View looking to the southwest.



Photo #2 View of target range area in the southeastern portion of the Property.



Photo #3 Additional view of shooting range area located in southeastern portion of the Property.



Photo #4 View of "United States Air Force Installation" signage, located along southern Property boundary. The southern-adjacent property is USAF land and used for target/bombing practice.



Photo #5 Entry gate from the Subject Property into USAF property, located along the southern Property boundary.



Photo #6 View of water well shed located on south-adjacent property, located in the southwest portion of the Property.



Photo #7 View of Boron Sanitary Landfill. This facility is located in the vicinity of the southeastern portion of the Subject Property and **is not** a part of the Subject Property.



Photo #8 View of seepage pit located within the Boron Landfill facility.



Photo #9 View of dumpage area located immediately outside of the Boron Landfill facility. The dumping areas generally contained concrete, asphalt, and soil piles with sparatic amounts of metal wire and metal cans.



Photo #10 Suspect groundwater monitoring well located in the northeastern portion of the Property, near Twenty Mule Team Road.



Photo #11 Multiple 55-gallon drums located on an adjacent property at the Property boundary. No odors were detected, and minimal soil staining surrounding the drums was observed.



Photo #12 View of natural gas valve facility located in southeast portion of the Property. The facility is operated by Pacific Gas & Electric Company.



Photo #13 View inside of natural gas valve facility located in southeast portion of Property.



Photo #14 View of natural gas pipeline signage, located in southeast portion of the Property.



Photo #15 View of electrical utility and structures located in the southern portion of the Property. View looking to the west.



Photo #16 View of two (2) suspect groundwater wells located in the south-central portion of the Property. The foreground well is a constructed of a 4" metallic casing and is filled with soil. The background well was secured, and no further observations were made.



Photo #17 View of dumping area located within the Property boundary. Various dumping area were observed throughout the southern Property parcels, and generally contained clothing, metal cans, concrete debris, and various other domestic refuse.



Photo #18 View of dumping area in southern portion of Property.



Photo #19 View of dumping area located in southeast portion of Property.



Photo #20 View of railroad ties located in the southeast portion of the Property.



Photo #21 View of 55-gallon paper drums and other dumped debris located in the southern portion of the Property, near former building areas.



Photo #22 View of burned-down structure located in southwest portion of the Property. Multiple burned-down buildings are located in this area of the Property.



Photo #23 View of metallic debris and former building footing located in the southwest portion of the Property. The metallic debris appeared granular in composition and confined to approximate 10-foot diameter area (pictured).



Photo #24 View of former structural footing for apparent former pipeline, located in southwest portion of Property.



Photo #25 View of large soil stockpile located in southwest portion of the Property. The stockpile volume is approximated at 70,000 yards.



Photo #26 View of historical water pump located in southwest portion of the Property. View looking to the north.



Photo #27 View of Boron Mine transfer station, located adjacent to Property along railroad spur track, located in the southwest area of the Property.



Photo #28 View of multiple natural gas vent lines and vaults, located in northwest portion of the Property.



Photo #29 View of natural gas valve facility located in northwest portion of the Property. Facility is operated by Mojave Pipeline Operating Company.



Photo #30 View of natural gas valve facility located in northwest portion of the Property.



Photo #31 View of four (4) 5-gallon buckets of oil spilled onto surrounding soils, located adjacent to natural gas valve facility in the northwest portion of the Property.



Photo #32 Secondary view of spilled 5-gallon buckets and contents, impacting and staining surrounding soils.



Photo #33 View of typical water well / valve box located along northern Property boundary. Approximately four (4) of these features were identified in this area.



Photo #34 Water well with transite protective conductor casing, located along northern Property boundary.

Appendix B STANTEC RESUMES

Dion Monge

Project Scientist

Dion has extensive knowledge of underground storage tank investigations, Phase I and II environmental site assessment, groundwater monitoring and reporting, soil, soil vapor, and groundwater quality assessments, and testing for asbestos and lead based paint. His project experience is extensive and wide ranging and includes many types of soil, soil vapor, and groundwater assessment and monitoring for planned, existing, and former sites. Dion also has experience in testing fill soils placed on grading sites.

He has experience on redevelopment of former oil field sites that include submittal of construction site review plans, oil well mitigation (venting and casing alterations), abandonment of oil wells, and remedial investigations and remediation involving soil contamination.

Dion also has experience working with 1166 AQMD air monitoring on projects ranging from limited access dry cleaner excavations, solvent excavations, and petroleum excavations related to underground storage tank releases. Included in this type of monitoring is the assessment of a safe work environment for the contractors involved with this type of work.

He has considerable knowledge in asbestos and lead based paint sampling as a building inspector and lead sampling technician. Asbestos and lead based paint surveys have ranged from large office buildings to sampling highway bridges.

EDUCATION

BS, Soil Science, California Polytechnic University, Pomona, Pomona, California, 2004

Health & Safety Certification (29 CFR 1910.120),, 40-Hour OSHA Health & Safety Certification, Redlands, California, 2005

Health & Safety Annual Update Certification, 8-Hour OSHA, Redlands, California, 2009

First Aid/CPR, American Red Cross, Redlands, California, 2009

Certified Building Inspector, AHERA 8-Hour Refresher, Redlands, California, 2009

PROJECT EXPERIENCE

Asbestos, Lead Based Paint, and Hazardous Material Management

Haller Wash Bridge No. 54-0891R&L, San Bernardino County, California (Asbestos and Lead-Based Paint Sampling Assistant)

Dion conducted asbestos and lead based paint survey on highway bridge. He assisted with planning field operations, measuring bridge dimensions, and collecting samples. Tasks included sample collection, bridge measurements, and documentation.

Project Management Oversight

Magnolia Plaza, Fountain Valley, California

Dion is providing project management of soil, soil vapor, and quarterly groundwater sampling related to a solvent release at a former dry cleaning facility. Tasks include preparation of work plans for approval by the Regional Water Quality Control Board and oversight of field sampling, including lithologic logging, for soil and soil vapor investigations performed within a multi-tenant strip center. Additional tasks include preparation of investigative reports and quarterly groundwater monitoring reports. The site remains an open case and preparation of a work plan to use electrical resistive heating ("ERH") will be prepared in the coming weeks.

Dion Monge

Project Scientist

Former Superb Dry Cleaners, Anaheim, California
Dion performed field oversight, direction, and confirmation soil sampling of a limited access excavation within a former dry cleaner unit. Post excavation field activities included application of a barrier type floor sealant along with post excavation indoor air sampling. Remedial work led to regulatory closure being granted from the local agency.

Site Assessment

I-15/I-215 Interchange Improvements, San Bernardino County, California (Sampling Technician)
Dion helped conduct site investigations and surveys for potentially hazardous materials. His efforts supported Caltrans' plans to improve and widen the existing freeway lanes, entrance and exit ramps, and vehicle and railroad bridges along a 6-mile stretch of the I-15 and I-215 freeways in the Devore area of San Bernardino County. Dion's efforts included Environmental Evaluation of Recognized Environmental Concerns identified in ISAs

Highway 138 Environmental Investigations, San Bernardino County, California (Field Assessment and Reporting)
Dion helped complete hazardous material site investigations on five bridges along State Highway 138 along a 20-mile segment through portions of Los Angeles and San Bernardino Counties, California. The investigation was conducted in accordance with Caltrans protocols and was compliant with EPA's all appropriate inquiries guidance and ASTM Standard Practice E1527. He performed site reconnaissance, conducted regulatory and agency field reviews, and reviewed environmental databases and historical fire insurance, telephone directories, aerial photographs, topographic maps, and other environmental records for properties within one half mile of the proposed 20-mile segment of Highway 138. Dion compiled an report summarizing findings and identifying recognized environmental conditions.

Proposed Friends Christian High School, Yorba Linda, California
Dion prepared preliminary site assessment (PSA) report for future private school site to identify recognized environmental conditions ("RECs") related to past property usage as an oil field with 21 oil wells abandoned prior to 1990. Completion of the PSA led to his management of the project through site closure. Field investigations and reporting by Dion included Phase II investigations, methane survey, oil well leak testing and venting, backfill and compaction (including soils testing), DOGGR Construction Site Review, and excavation and onsite management of more than 5,000 cubic yards of petroleum impacted soils.

SR-58 Widening, San Bernardino County, California
Dion performed Initial Site Assessment (ISA) for Caltran at Kramer Junction for the proposed widening of State Route 58. The ISA was performed in accordance with guidelines promulgated by the American Society for Testing and Materials (ASTM) and included historical research and coordination of permit/file reviews with local building/planning departments and environmental agencies. Dion's role included the field visit, observation documentation, agency reviews, and reporting.

Soil Sampling

Caltrans I-15, Task Order 28, Hesperia, California
Dion conducted a soil investigation for metals analysis alongside I-15 for disposal recommendations during construction of mortar-lined channels at several locations. He assisted with planning field operations and collected soil samples. Tasks included sample collection, preservation, and documentation.

** denotes projects completed with other firms*

Joshua Sargent

Geologic Staff

Joshua is a staff geologist with a master's degree in geological sciences. He has extensive field experience in geophysical exploration techniques and Phase I and II Environmental Assessment field work and report preparation. His field experience includes subsurface gold-copper porphyry deposit mapping using induced polarization and resistivity geophysics, mapping of shallow faults throughout Southern California using refraction seismology equipment, soil logging and collection, soil vapor collection, and surface and groundwater collection with basic flow measurements and parameter stabilization. He is skilled in using ArcGIS 10, Adobe Suite, and the Microsoft Office Suite. Joshua's environmental consulting experience includes performing Phase I Environmental Site Assessments in accordance with the practices identified in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation E 1527-13, and the collection, and interpretation of Phase II Environmental Assessment data. Joshua also has experience in preparing Phase II Environmental Assessment reports based from this compiled data.

EDUCATION

MS, Geological Sciences, California Polytechnic State University, Pomona, California, 2014

BS, Geological Sciences, California Polytechnic State University, Pomona, California, 2012

CERTIFICATIONS & TRAINING

8-Hour Supervisor Trainer Course Certification Hazwoper Standard, OSHA, Redlands, California, 2015

8-Hour Refresher Course Hazwoper Standard (29 CFR 1910.120), OSHA, Redlands, California, 2015

First Aid and CPR Certification, American Safety, Redlands, California, 2015

40-Hour Hazwoper, OSHA, Signal Hill, California, 2012

MEMBERSHIPS

Member, Geological Society of America

PROJECT EXPERIENCE

Health and Safety Management

Health and Safety Subcontractor Oversight Services (Geological Staff)

Joshua has provided subcontractor oversight for field activities including soil, soil vapor, and groundwater sampling. Other field activities include well destruction and on-site remediation.

Technical Writing

Various Technical Writing Projects (Geological Staff)

Joshua prepares Health and Safety plans, written permit applications, Phase I and Phase II Environmental Site Assessments reports, Work Plans dealing with soil, soil vapor, and groundwater sampling, and groundwater monitoring reports.

Environmental Site Assessments

Phase I Site Assessment, Redlands, California (Phase I and Phase II Environmental Site Assessment, Author)

Joshua performed an on-site reconnaissance survey, historical records investigation, and formulated the report deliverable. The report provided a thorough review of the property history and defined present environmental concerns for the client.

Soil Sampling

Dust and Pesticide Monitoring, Soil Sampling, Monterey Park, California (Oversight, Dust and Pesticide Monitoring, Soil Sampling)

Joshua performed field oversight during contaminated soil removal at a future residential community. Dust and toxaphene were monitored simultaneously to generate a site-specific threshold for dust concentration. Routine dust monitoring was performed once the threshold was determined. Property gridding and soil sampling were performed to determine contamination.

** denotes projects completed with other firms*

Joshua Sargent

Geologic Staff

Soil Vapor Intrusion Assessment

Soil Vapor Monitoring Well Installation, Various Locations, California (Field Oversight, Soil Description)

Joshua performed field oversight during the installation of multiple soil vapor monitoring wells. He assisted with health and safety oversight, described the soil during drilling, activities, assisted with the well installation, and conducted the subsequent soil vapor sampling.

Environmental Site Remediation

Soil Vapor Remediation, Orange County, California (Geological Staff)

Joshua has provided monthly operation and maintenance on a soil vapor extraction system operating at a historical landfill. Components of the operation and maintenance included measurements of the recovered vapor for methane and volatile organic compounds, and collecting flow measurements from the extraction wells. Joshua prepared month operation and maintenance reports.

Subcontractor Oversight Services and Confirmation Soil Sampling (Geological Staff)

Joshua has provided subcontractor oversight for remedial excavation of pesticide- and petroleum-impacted soil, and later conducted confirmation sampling to ensure all impacted material had been removed from the Site.

** denotes projects completed with other firms*

Joshua Sargent

Geologic Staff

PUBLICATIONS

Sources of Fluids in Shallow Groundwater Near Natural Gas Extraction – Weld, Adams, and Boulder Counties, Colorado. *Geological Society of America Poster Presentation, Poster # 344-6, Session # 344, Geological Society of America 125th Annual Meeting, Denver, Colorado*, 2013.

Sources of Fluids and Salinity in Shallow Groundwater Near Natural Gas Extraction: Weld, Adams, and Boulder Counties, Colorado. *Geological Sciences Department for California Polytechnic State University Pomona*, 2014.

Sources of Biogenic Methane in Shallow Aquifers, Denver Julesburg Basin, Colorado. *Applied Geochemistry*, 2015.

Kyle D. Emerson PG, CEG

Managing Principal Geologist

Kyle has more than 35 years of professional experience—25 of those years with Stantec—providing geotechnical and environmental consulting. During the course of his experience, he has been involved with a wide variety of geological and engineering projects. He has been in direct charge of quality control/quality assurance (QA/QC) work for Stantec and previous firms for geological, engineering geological, and environmental services primarily in California. Additionally, Kyle has been a primary contact for Stantec with many different clients (including multi-party actions) and regulatory bodies involving contracting, workplan approvals, site assessments and closures, permitting, remedial action, and litigation support. With regard to litigation services, Kyle has extensive experience providing expert witness testimony, second-party review, and litigation support and analysis.

Kyle's extensive experience includes assessment and remediation of property-specific and regional issues involving soil and groundwater contaminated with petroleum hydrocarbons, chlorinated solvents, heavy metals, pesticides, and PCBs.

He currently serves as the managing principal geologist in Stantec's Redlands, California office.

EDUCATION

Engineering Geology/Hydrogeology, California State University, Los Angeles, California, 1984

AS, General Science, Crafton Hills College, Yucaipa, California, 1975

BS, Geological Sciences, California State University, Long Beach, California, 1982

REGISTRATIONS

Certified Engineering Geologist #1271, State of California

Professional Geologist #4066, State of California

PROJECT EXPERIENCE

Bioremediation

Excavation and Treatment of Petroleum-Contaminated Soil

Kyle designed the excavation and treatment of 45,000 cubic yards of petroleum-contaminated soil. Soil treatment included utilizing vapor extraction, combined with bioremediation.

Chemicals & Polymers

Two Former Chemical Plants, Environmental Site Assessments and Remediation, Vernon, California

Mr. Emerson was part of the team for conducting Phase I and Phase II Environmental Site Assessments (ESA) and developing remedial action plans for two former chemical plant sites with 80-year industrial histories. Phase I ESAs used historical files, maps, aerial photographs, available documents, and data from public agencies and historical directories for identifying recognized environmental concerns. Extensive Phase II ESA survey activities aided in identifying below-grade structures such as vaults/USTs, as well as assessing the extent of influence and nature of the contamination. These investigations confirmed the presence of heavy metals, petroleum hydrocarbons, volatile organic compounds, polychlorinated biphenyls, radioactive materials, semi-volatile organic compounds, and polycyclic aromatic compounds in the soils for these sites. Specific areas of concern included former settling ponds, a bone yard, maintenance areas, transformer and substations, wastewater treatment facilities, and above-ground storage tank farms. A conceptual mode was developedl for use in a health risk assessment and developed risk-based corrective actions to address potential health and environmental concerns. He assisted with the development and implementation of a remedial action plan, combined administrative controls, engineering controls, and active remediation; this resulted in the cost-effective return of one site to active use, and is reducing health risks to occupants and the public at the second site.

Kyle D. Emerson PG, CEG

Managing Principal Geologist

CONFIDENTIAL: Aerospace Adhesives and Coatings Plant, Glendale, California

Mr. Emerson was part of the team that conducted feasibility studies to evaluate remedial alternatives for remediation of chlorinated VOCs, 1,4 dioxane, and hexavalent chromium (CrVI) in soil, soil vapor, and groundwater. Feasibility studies included groundwater pump testing, benchscale column testing to evaluate in situ alternatives for reducing CrVI to the less mobile CrIII valence state, soil vapor extraction, capping, and excavation. Field pilot studies were performed to evaluate the efficiency of various CrVI reductants including the use of ferrous sulfate, calcium polysulfide, emulsified oil, and fructose. Extensive multi-depth soil vapor testing was conducted to evaluate the distribution of VOCs in the subsurface and to support vapor intrusion risk assessment. Feasibility studies were completed in 2008. Remedial actions are expected to be completed in 2011.

Condition Assessments

Assessment and Mitigation of Manufacturing Facility

Kyle managed the assessment and mitigation of an ammunition manufacturing facility covering 1,100 acres in a complex geologic environment. The contaminates involved red and white phosphorous, TNT, chlorinated solvents, solid wastes, and live ordinance.

Soil Contamination Assessment Supervision and Management

Kyle managed and supervised soil contamination assessment and in-situ remediation of heavy metals involving chromium, cadmium, nickel and zinc by chemical fixation to depths in excess of 40 feet below ground surface beneath existing structures within several manufacturing facilities.

Litigation Support and Expert Testimony

Kyle provided litigation support and expert testimony on more than 20 separate projects involving service stations, chlorinated solvent cases, heavy metal, and semi-volatile releases.

Corporate / Office

CT Realty Environmental Remediation of Former Dry Cleaners, El Centro, California

Mr. Emerson was responsible for assessments and remediation at this former dry cleaners which released the dry cleaning chemical tetrachloroethene (PCE) to the ground and underlying groundwater. The work included initial site assessment, agency interaction and negotiations with the California Regional Water Quality Control Board (CRWQCB), and Colorado Basin Region human health risk assessment (HHRA), design and implementation of remedial investigations, feasibility studies, remedial action plans, and implementation of remediation in mitigating chlorinated solvent contamination in vadose and saturated zones at concentrations indicative of DNAPL. The results of the completed remediation, as well as continued confirmation sampling and monitoring, allowed the CRWQCB to issue site closure in 2008. The site has since been redeveloped into a new commercial development.

Environmental Assessments

Siting Studies

Kyle performed initial siting studies for potential Class I, II, and III landfills. The project included detailed geologic mapping, hydrogeological studies, and permeability studies of caps and liners.

Environmental Site Remediation

Assessment and Remedial Design, California (Project Supervisor)

Kyle supervised the assessment and remedial design of a system to eliminate salt brine contamination in shallow perched water horizons in the Yucaipa, San Bernardino, and Riverside areas of southern California.

Design and Installation of Recovery Systems*

Kyle designed and installed numerous free-product recovery systems that successfully recovered product. One of the sites contained product up to 11-feet thick covering more than three city blocks. The dissolved phase had affected a multi-aquifer system and a public drinking water system.

Geophysical Characterizations*

Kyle performed and supervised numerous geophysical characterizations to determine the extent of old landfills. He provided classification studies, landfill gas monitoring, removal verification during grading, methane collection and mitigation plans, permitting, and closure plans.

** denotes projects completed with other firms*

Kyle D. Emerson PG, CEG

Managing Principal Geologist

Domestic Landfill Development*

Kyle designed and supervised the dynamic consolidation of a domestic landfill for development. He used this process to minimize expected settlement to overlying structures. Kyle designed commercial developments on closed landfills that involved complex methane collection and monitoring systems and building settlement controls.

Clay Borrow Site Studies

Kyle performed more than 10 separate clay borrow site studies for determining sources of material to cap landfills; ranged from a 20-acre dry lakebed to a 450-acre parcel in complex folded marine sediments.

Assessment, Clean Up, and Regulatory Support Management, Santa, Monica (Project Manager)

Kyle managed the assessment, clean up, and complex regulatory support of a PRP site in an MTBE case (Charnock subbasin). His work involved more than 20 environmental professionals working full time for two years to complete the assessment and clean up mandated by the regulatory agencies.

Hazardous Waste

San Gabriel Valley Superfund Site, Remediation & Closure of Multiple Source Areas, Industry, California

Mr. Emerson performed feasibility studies to evaluate appropriate and relevant remedial alternatives to mitigate constituents of concern in five AOCs contaminated with chlorinated hydrocarbons, heavy metals, petroleum fuel, and cutting oils. Ultimately, a combination of remedial alternatives was implemented that included large-diameter auger excavation to 45 feet to minimize impacts on facility operations, vapor extraction, vapor intrusion risk assessment, deed restriction, and monitored natural attenuation. At the completion of remedial actions, confirmation soil, soil vapor, and groundwater sampling were conducted and followed with risk assessment to demonstrate that remedial objectives had been achieved. No further action was recently granted by the US EPA and Los Angeles Regional Water Quality Control Board.

Mixed-Use

Port of San Diego Rohr Facility, Chula Vista, California

Mr. Enerson assisted in a detailed subsurface assessment of the Rohr facility. The intent of the assessment was to evaluate the 40-acre former aircraft part manufacturing facility for acquisition by the Port of San Diego for redevelopment into a business park and entertainment complex. The assessment identified the presence of soil, soil vapor, and groundwater impacts by petroleum hydrocarbons, VOCs, heavy metals, PCBs, and semi-volatile organic compounds. He utilized many sampling techniques to assess the limits and concentrations of contaminants in the subsurface. Ultimately, the team was able to develop a cost estimate for potential remedial action cost associated to corrective action to allow redevelopment.

Master Planned Commercial/Residential Redevelopment Project, Whittier, California (Project Manager)

Kyle oversaw the assessment of 26 contiguous properties that are part of a 21-acre master planned commercial/residential redevelopment project. The properties included industrial facilities, platting lines, fuel USTs, and metal processing plants, among others. The estimated cleanup costs are approximately $2 million.

Multi-Unit / Family Residential

Residential Development Assessment, Ventura, California (Project Director)

Kyle directed an assessment of a 40-acre former agricultural property proposed for residential development. Pesticides were identified above hazardous waste levels and preliminary remediation goals established by the U.S. Environmental Protection Agency. Through corrective grading methods and onsite placement of the pesticide impacted soils, all material were re-used on site without offsite disposal. The over all cost savings for the client was more than $1 million. Total cost was less than $250,000 for all necessary activities.

Oil & Gas

Oil Field Site Assessments*

Kyle performed site assessments at oil field leases involving refineries, bulk storage areas, piping systems and wellhead, and drilling mud pit contamination.

** denotes projects completed with other firms*

Kyle D. Emerson PG, CEG

Managing Principal Geologist

Environmental Protection Agency Superfund Action, Culver City, California (Project Manager)
Kyle served as the project manager representing a major oil company in the assessment, remedial action, and litigation support in a multi-party contamination case affecting a City water supply. The assessment involved more than 250 continuous core borings up to 100 feet, as well as extensive remedial actions. The total cost for all related activities was $22 million. The case is settled and the closure of the site is pending.

Project Management
Liability and Property Management Consulting Services
Kyle is providing liability and property management consulting services to more than 10 medium to large property development firms in the US. His work involves property transaction assessments, contract review, acquisition guideline development, liability management evaluation, insurance acquisition, and strategic planning.

Residential Development
Environmental Development Management and Review (Project Manager)
Kyle manages and reviews environmental development issues for a large residential developer specializing in development of contaminated industrial properties by providing innovative solutions in developing contaminated properties for residential use through risk assessment, engineering, and administrative and property development controls.

Site Management and Remediation
Design and Implementation of Biodegradation Programs*, California
Kyle designed and implemented one of the first in-situ biodegradation programs in California; it involved 50,000 cubic yards of diesel-contaminated soils, and groundwater to depths of 70 feet below ground surface.

Soil and Groundwater Remediation Systems
Soil and Groundwater Contamination Assessments and Mitigation*, California (Project Manger)
Kyle managed numerous chlorinated solvent soil and groundwater contamination assessments and mitigation programs in southern California. The projects involved releases that impacted soil and groundwater to depth of groundwater more than 700 feet in multi-aquifer systems. One case involved with plume dimensions more than 1 mile from the source affecting residential properties.

Soil and Groundwater Assessment and Remediation Programs*
Implemented hundreds of soil and groundwater assessment and remediation programs at various service station facilities in Southern and Northern California, and Nevada. Work involved assessment, remedial design, installation, maintenance and monitoring. Closure has been received on a majority of these sites.

Assessment and Remediation Management*
Kyle managed the assessment and remediation of soil and groundwater manufacturing at dry cleaning facilities contaminated with chlorinated solvents.

Warehouse / Light Industrial
Glendale Redevelopment Project, Glendale, California (Project Manager)
Kyle managed the assessment and remedial actions during the redevelopment of and industrial property. The project involved the demolition of a historic manufacturing facility and a commercial dry cleaner. Each of these facilities were associated with releases of solvents and petroleum hydrocarbons. Remedial actions involved excavation by pattern drilling and off site disposal along with removal of former USTs. The total cost of remediation and assessment was $450,000.00.

** denotes projects completed with other firms*

Kyle D. Emerson PG, CEG

Managing Principal Geologist

Compton Redevelopment Project, Compton, California (Project Manager)

Kyle is serving as project manager for the assessment and remedial actions for a large redevelopment project. The project involves the redevelopment of a historic manufacturing facility and a former dry cleaner. Each of these facilities were associated with releases of solvents and petroleum hydrocarbons. The industrial facility was also associated with significant volumes of buried waste that required removal and disposal. These wastes also included the chemical referenced above, as well as PCBs and heavy metals. Remediation has included excavation, vapor extraction, and chemical fixation. The total cost of this project has been $2.8 million to date.

** denotes projects completed with other firms*

Kyle D. Emerson PG, CEG

Managing Principal Geologist

PUBLICATIONS

In-Situ Bioremediation of an Underground Diesel Fuel Spill: A Case Study. *Environmental Management*, 1989.

Appendix C USER PROVIDED RECORDS

PHASE I ESA USER'S QUESTIONNAIRE

In order to qualify for protection from land owner liability under CERCLA as an *innocent landowner, bona fide prospective purchaser,* or *contiguous property owner,* ASTM standard practice E1527-05 and the federal AAI rule (40 CFR 312) require that the User of the Phase I ESA report provide certain information (if available) to the Environmental Professional completing the assessment. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. Information that is not or cannot be provided to the Environmental Professional may be identified as a "data gap" in the Phase I ESA report.

Please answer the following questions as completely as possible. Attach additional pages as needed. Return the completed questionnaire to Stantec along with the executed Authorization For services form.

1. Property Information

Property Name: DORA LAND, A CA CORP

Property Address: 244-040-07, 244-040-23 (20 MULE TEAM RD)

City: BORON State CA Zip 93516

Property Owner Name: _____

Property Owner Phone #: _____

2. Contact For Site Access

Name: J LIDMAN

Company/Organization/Title: DORA LAND

Phone # 714-488-8390 E-Mail Address: JLIDMAN@YAHOO.COM

3. Environmental Cleanup Liens. 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, describe or attach details of the lien _____

_____

4. Activity and Land Use Limitations. Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls that are in

place at the property and/or have been filed or recorded as applicable to the property as a result of environmental contamination, investigation, cleanup, or related matters?

_____ Yes _____✓_____ No

If yes, describe or attach details of the limitations _____

_____

5. Specialized Knowledge or Experience. As the User of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property, such that you would have specialized knowledge about chemicals and processes used by this type of business?

_____ Yes _____✓_____ No

If yes, describe or attach details of your specialized knowledge or experience _____

_____

6. Relationship of Purchase Price to Fair Market Value of Property. Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, do you have any reason to believe that the reduced purchase price may be related to contamination known or believed to be present at the property?

_____✓_____Yes, I have reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property?

_____No, I have no reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property?

_____Not applicable. User is not involved in a purchase of the property.

7. Commonly Known or Reasonably Ascertainable Information. 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 of hazardous substances or petroleum products? For example:

Do you know the past uses of the property?

_____Yes (describe) _____

_____

_____

_____✓_____No

Do you know of chemicals, hazardous substances or petroleum products that are present or once were present at the property?

_____Yes (describe) _____

_____

_____

__✓__No

Do you know of spills or other releases of chemicals, hazardous substances or petroleum products that have taken place at the property?

_____Yes (describe) _____

_____

_____

__✓__No

Do you know of any environmental cleanups that have taken place at the property?

_____Yes (describe) _____

_____

_____

__✓__No

8. <u>The Degree of Obviousness of Contamination.</u> E1527-05 and the federal AAI rule (40 CFR 312.31) require that the Phase I ESA consider the degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation. Based on your knowledge and experience related to the property, are there any *obvious* indictors that point to the presence or likely presence of contamination at the property?

_____Yes (describe) _____

_____

_____

__✓__No

9. <u>Availability of Previous Environmental Reports.</u> Are you aware of previous environmental site assessment reports, other environmental reports, documents, correspondence, etc. concerning the property and its environmental condition?

_____Yes (describe) _____

_____

_____

__✓__No

Signature: _____

Name (printed): J LIDMAN

Title: VICE-PRESIDENT

Date: 3/15/19

PAUL J. WEINBERG

ATTORNEY AT LAW

Suite 1500
5 Park Plaza
Irvine, California 92614



DATE:	March 29, 2019
TO:	Todd Bruckel 8-minute Energy 5455 Wilshire Blvd. Suite 2010 Los Angeles, CA 90036-4220
FROM:	Terri Cohen
RE:	Britton Associates – Vacant Land in Boron, CA
ENCLOSED:	Original Phase I ESA User's Questionnaire, Signed by Steven Harris

Telephone (949) 553-0500
Facsimile (949) 474-0529
e-mail address: office@pjwmediation.com
Website address: www.pjwmediation.com

PHASE I ESA USER'S QUESTIONNAIRE

In order to qualify for protection from land owner liability under CERCLA as an *innocent landowner, bona fide prospective purchaser, or contiguous property owner*, ASTM standard practice E1527-05 and the federal AAI rule (40 CFR 312) require that the User of the Phase I ESA report provide certain information (if available) to the Environmental Professional completing the assessment. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. Information that is not or cannot be provided to the Environmental Professional may be identified as a "data gap" in the Phase I ESA report.

Please answer the following questions as completely as possible. Attach additional pages as needed. Return the completed questionnaire to Stantec along with the executed Authorization For services form.

1. Property Information

   Property Name: Approximately 278 acres in Kern County, CA

   Property Address: Parcel #244-040-14 and Parcel #244-040-15

   City: Boron, California

   Property Owner Name: Britton Associates, LLC

   Property Owner Phone #: (714) 904-8975

2. Contact For Site Access

   Name: Paul J. Weinberg

   Company/Organization/Title: Attorney

   Phone # 949-553-0500 E-Mail Address: office@pjwmediation.com

3. Environmental Cleanup Liens. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

   _____ Yes _____X___ No

   If yes, describe or attach details of the lien _____

   _____

4. Activity and Land Use Limitations. Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls that are in

place at the property and/or have been filed or recorded as applicable to the property as a result of environmental contamination, investigation, cleanup, or related matters?

_____ Yes ____X_____ No

If yes, describe or attach details of the limitations _____

_____

5. Specialized Knowledge or Experience. As the User of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property, such that you would have specialized knowledge about chemicals and processes used by this type of business?

_____ Yes ____X_____ No

If yes, describe or attach details of your specialized knowledge or experience _____

_____

6. Relationship of Purchase Price to Fair Market Value of Property. Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, do you have any reason to believe that the reduced purchase price may be related to contamination known or believed to be present at the property?

_____Yes, I have reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property?

X_____No, I have no reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property?

_____Not applicable. User is not involved in a purchase of the property.

7. Commonly Known or Reasonably Ascertainable Information. 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 of hazardous substances or petroleum products? For example:

Do you know the past uses of the property?
X_____Yes (describe) Clay Mining

_____

_____No

Do you know of chemicals, hazardous substances or petroleum products that are present or once were present at the property?

_____Yes (describe) _____

_____

_____

X_____No

Do you know of spills or other releases of chemicals, hazardous substances or petroleum products that have taken place at the property?

_____Yes (describe) _____

_____

_____

X_____No

Do you know of any environmental cleanups that have taken place at the property?

_____Yes (describe) _____

_____

_____

X_____No

8. The Degree of Obviousness of Contamination. E1527-05 and the federal AAI rule (40 CFR 312.31) require that the Phase I ESA consider the degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation. Based on your knowledge and experience related to the property, are there any *obvious* indictors that point to the presence or likely presence of contamination at the property?

_____Yes (describe) _____

_____

_____

X_____No

9. Availability of Previous Environmental Reports. Are you aware of previous environmental site assessment reports, other environmental reports, documents, correspondence, etc. concerning the property and its environmental condition?

_____Yes (describe) _____

_____

_____

X No All records shown on attached letter/index have already been submitted

Signature: Steven Harris

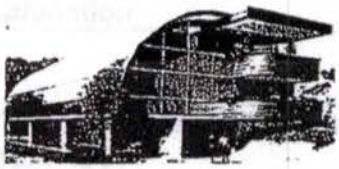
Name (printed): Steven Harris

Title: Owner (Representative)

Date: March 21, 2019

PAUL J. WEINBERG
ATTORNEY AT LAW

5 Park Plaza
Suite 1500
Irvine, California 92614



September 28, 2018

Todd Bruckel
8-minute Energy
5455 Wilshire Blvd., Suite 2010
Los Angeles, CA 90036-4220

Via Federal Express

RE: Britton Associates, LLC – Vacant Land in Boron, California

Dear Todd:

I have now had the opportunity to meet with my client and locate and obtain records responsive to the provisions of Paragraph 2(a)(iv)(X) of the "Solar Power Generating Facility Land Option and Purchase Agreement" dated August 20, 2018 by and between my client, Britton Associates, LLC and 8-minute Energy.

That provision requires us to deliver to you the following documents, to the extent they are in my client's possession or control:

(1) "Legible copies of the bills issued for the most recent tax year for all real estate taxes...

(2) All reports, studies, drawings, or analyses relating to the Property, including, without limitation, geotechnical, environmental, architecture, surveys, or engineering studies reports; and

(3) All notes, memoranda, and written communications relating to the development of the Property, including, without limitation, negotiations with any governmental or quasi-governmental agencies."

Enclosed herewith you will find an index and the documents responsive to these obligations. The time limit of ten days from the effective date was waived by our mutual understanding, confirmed by email, that given the disuse of the property and the length of time since any active use had been made of it, it would take a longer period of time to locate and transmit the records. If I am in error, please advise.

Telephone (949) 553-0500
Facsimile (949) 474-0529
e-mail address: office@pjwmediation.com
Website address: www.pjwmediation.com

PHASE I ESA USER'S QUESTIONNAIRE

In order to qualify for protection from land owner liability under CERCLA as an *innocent landowner, bona fide prospective purchaser,* or *contiguous property owner,* ASTM standard practice E1527-05 and the federal AAI rule (40 CFR 312) require that the User of the Phase I ESA report provide certain information (if available) to the Environmental Professional completing the assessment. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. Information that is not or cannot be provided to the Environmental Professional may be identified as a "data gap" in the Phase I ESA report.

Please answer the following questions as completely as possible. Attach additional pages as needed. Return the completed questionnaire to Stantec along with the executed Authorization For services form.

1. Property Information

   Property Name: Approximately 278 acres in Kern County, CA

   Property Address: Parcel #244-040-14 and Parcel #244-040-15

   City: Boron, California

   Property Owner Name: Britton Associates, LLC

   Property Owner Phone #: (714) 904-8975

2. Contact For Site Access

   Name: Paul J. Weinberg

   Company/Organization/Title: Attorney

   Phone # 949-553-0500 E-Mail Address: office@pjwmediation.com

3. Environmental Cleanup Liens. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

   _____ Yes _____X____ No

   If yes, describe or attach details of the lien _____

   _____

4. Activity and Land Use Limitations. Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls that are in

place at the property and/or have been filed or recorded as applicable to the property as a result of environmental contamination, investigation, cleanup, or related matters?

_____ Yes ___X___ No

If yes, describe or attach details of the limitations _____

_____

5. Specialized Knowledge or Experience. As the User of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property, such that you would have specialized knowledge about chemicals and processes used by this type of business?

_____ Yes ___X___ No

If yes, describe or attach details of your specialized knowledge or experience _____

_____

6. Relationship of Purchase Price to Fair Market Value of Property. Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, do you have any reason to believe that the reduced purchase price may be related to contamination known or believed to be present at the property?

_____Yes, I have reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property?

X_____No, I have no reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property?

_____Not applicable. User is not involved in a purchase of the property.

7. Commonly Known or Reasonably Ascertainable Information. 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 of hazardous substances or petroleum products? For example:

Do you know the past uses of the property?
X_____Yes (describe) Clay Mining

_____

_____No

Do you know of chemicals, hazardous substances or petroleum products that are present or once were present at the property?

_____Yes (describe) _____

_____

_____

X_____No

Do you know of spills or other releases of chemicals, hazardous substances or petroleum products that have taken place at the property?

_____Yes (describe) _____

_____

_____

X_____No

Do you know of any environmental cleanups that have taken place at the property?

_____Yes (describe) _____

_____

_____

X_____No

8. The Degree of Obviousness of Contamination. E1527-05 and the federal AAI rule (40 CFR 312.31) require that the Phase I ESA consider the degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation. Based on your knowledge and experience related to the property, are there any *obvious* indictors that point to the presence or likely presence of contamination at the property?

_____Yes (describe) _____

_____

_____

X_____No

9. Availability of Previous Environmental Reports. Are you aware of previous environmental site assessment reports, other environmental reports, documents, correspondence, etc, concerning the property and its environmental condition?

_____Yes (describe) _____

_____

_____

X No All records shown on attached letter/index have already been submitted

Signature: Steven Harris

Name (printed): Steven Harris

Title: Owner (Representative)

Date: March 21, 2019

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Please answer the following questions as completely as possible. Attach additional pages as needed. Return the completed questionnaire to Stantec along with the executed Authorization For services form.

1. Property Information

Property Name: Vacaut land

Property Address: APN 232-081-10

City: Kern County State CA Zip _____

Property Owner Name: John Hui

Property Owner Phone #: 702 202 1600

2. Contact For Site Access

Name: Kent Wheeler

Company/Organization/Title: Enterprise One Inc VP

Phone # 7022021600 E-Mail Address: Kent@enterpriseoneinc.com

3. Environmental Cleanup Liens. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

_____ Yes ___X___ No

If yes, describe or attach details of the lien _____

_____

4. Activity and Land Use Limitations. Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls that are in

place at the property and/or have been filed or recorded as applicable to the property as a result of environmental contamination, investigation, cleanup, or related matters?

_____ Yes _____X_____ No

If yes, describe or attach details of the limitations _____

_____

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_____ Yes _____X_____ No

If yes, describe or attach details of your specialized knowledge or experience _____

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7. Commonly Known or Reasonably Ascertainable Information. 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 of hazardous substances or petroleum products? For example:

Do you know the past uses of the property?

_____X_____Yes (describe) _____Vacant land_____

_____

_____

_____No

Do you know of chemicals, hazardous substances or petroleum products that are present or once were present at the property?

_____Yes (describe) _____

_____

_____

__X__No

Do you know of spills or other releases of chemicals, hazardous substances or petroleum products that have taken place at the property?

_____Yes (describe) _____

_____

_____

__X__No

Do you know of any environmental cleanups that have taken place at the property?

_____Yes (describe) _____

_____

_____

__X__No

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_____Yes (describe) _____

_____

_____

__X__No

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_____Yes (describe) _____

_____

_____

__X__No

Signature: _____

Name (printed): Kent Wheeler

Title: VP

Date: 3/29/19

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Please answer the following questions as completely as possible. Attach additional pages as needed. Return the completed questionnaire to Stantec along with the executed Authorization For services form.

1. Property Information

   Property Name: 232-220-37 and 232-220-36

   Property Address: Per tax bill 280.01 AC 33 11 8 N and 234.55 AC 33 11 8 S

   City: Unincorporated Kern County State CA Zip

   Property Owner Name: Illy King Family Trust

   Property Owner Phone #: 408-888-4529

2. Contact For Site Access

   Name: Illy King

   Company/Organization/Title:

   Phone # 408-888-4529 E-Mail Address: iking83457@aol.com

3. Environmental Cleanup Liens. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

   _____ Yes _____X____ No

   If yes, describe or attach details of the lien

4. Activity and Land Use Limitations. Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls that are in

place at the property and/or have been filed or recorded as applicable to the property as a result of environmental contamination, investigation, cleanup, or related matters?

_____ Yes _____X_____ No

If yes, describe or attach details of the limitations _____

_____

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_____ Yes _____X_____ No

If yes, describe or attach details of your specialized knowledge or experience _____

_____

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Do you know the past uses of the property?

_____Yes (describe) _____

_____

_____

__X__No

Do you know of chemicals, hazardous substances or petroleum products that are present or once were present at the property?

_____Yes (describe) _____

_____

_____

__X__No

Do you know of spills or other releases of chemicals, hazardous substances or petroleum products that have taken place at the property?

_____Yes (describe) _____

_____

_____

__X__No

Do you know of any environmental cleanups that have taken place at the property?

_____Yes (describe) _____

_____

_____

__X__No

8. The Degree of Obviousness of Contamination. E1527-05 and the federal AAI rule (40 CFR 312.31) require that the Phase I ESA consider the degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation. Based on your knowledge and experience related to the property, are there any ***obvious*** indictors that point to the presence or likely presence of contamination at the property?

_____Yes (describe) _____

_____

_____

__X__No

9. Availability of Previous Environmental Reports. Are you aware of previous environmental site assessment reports, other environmental reports, documents, correspondence, etc. concerning the property and its environmental condition?

_____Yes (describe) _____

_____

_____

__X__No

Signature: _____

Name (printed): ILLY KING_____

Title: _____

Date: _____

PHASE I ESA USER'S QUESTIONNAIRE

In order to qualify for protection from land owner liability under CERCLA as an *innocent landowner, bona fide prospective purchaser,* or *contiguous property owner,* ASTM standard practice E1527-05 and the federal AAI rule (40 CFR 312) require that the User of the Phase I ESA report provide certain information (if available) to the Environmental Professional completing the assessment. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. Information that is not or cannot be provided to the Environmental Professional may be identified as a "data gap" in the Phase I ESA report.

Please answer the following questions as completely as possible. Attach additional pages as needed. Return the completed questionnaire to Stantec along with the executed Authorization For services form.

1. Property Information

   Property Name: See attached description of property_____

   Property Address: See attached description of property_____

   City: Boron_____State CA_____Zip _____

   Property Owner Name: Rosa Chen Su_____

   Property Owner Phone #: 747-266-9823_____

2. Contact For Site Access

   Name: Rosa Chen Su_____

   Company/Organization/Title: Owner_____

   Phone # 747-266-9823 E-Mail Address: rosacsu@yahoo.com_____

3. Environmental Cleanup Liens. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

   _____ Yes _____x____ No

   If yes, describe or attach details of the lien _____
   _____

4. Activity and Land Use Limitations. Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls that are in

place at the property and/or have been filed or recorded as applicable to the property as a result of environmental contamination, investigation, cleanup, or related matters?

_____ Yes _____x_____ No

If yes, describe or attach details of the limitations _____
_____

5. Specialized Knowledge or Experience. As the User of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property, such that you would have specialized knowledge about chemicals and processes used by this type of business?

_____ Yes _____x_____ No

If yes, describe or attach details of your specialized knowledge or experience _____
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7. Commonly Known or Reasonably Ascertainable Information. 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 of hazardous substances or petroleum products? For example:

Do you know the past uses of the property?
_____Yes (describe) _____
_____
_____
x_____No

Do you know of chemicals, hazardous substances or petroleum products that are present or once were present at the property?

_____Yes (describe) _____

_____

_____

x_____No

Do you know of spills or other releases of chemicals, hazardous substances or petroleum products that have taken place at the property?

_____Yes (describe) _____

_____

_____

x_____No

Do you know of any environmental cleanups that have taken place at the property?

_____Yes (describe) _____

_____

_____

x_____No

8. The Degree of Obviousness of Contamination. E1527-05 and the federal AAI rule (40 CFR 312.31) require that the Phase I ESA consider the degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation. Based on your knowledge and experience related to the property, are there any *obvious* indictors that point to the presence or likely presence of contamination at the property?

_____Yes (describe) _____

_____

_____

x_____No

9. Availability of Previous Environmental Reports. Are you aware of previous environmental site assessment reports, other environmental reports, documents, correspondence, etc. concerning the property and its environmental condition?

_____Yes (describe) _____

_____

_____

x_____No

Signature: _____

Name (printed): Rosa Chen Su_____

Title: Owner_____

Date: March 19, 2019_____

PARCEL 1:

That portion of Lot 1 of the northwest quarter of Section 6, Township 10 North, Range 7 West, S.B.B.M., in the unincorporated area of the County of Kern, State of California, as per the Official Plat thereof on file in the Office of the Surveyor General, described as follows:

Beginning at the northeast corner of the northwest quarter, of said Section 6; thence south, along the east line of said northwest quarter, a distance of 1,379.99 feet to a point; thence North 89 Degrees 34'43" west parallel to the north line of said northwest quarter, a distance of 1,320 feet to the true point of beginning; thence South 0 Degrees 36'16" west, parallel to the east line of said northwest quarter, a distance of 660 feet to a point; thence west parallel to the north line of said northwest quarter, a distance of 660 feet to a point; thence North 0 Degrees 36'16" east, parallel with the east line of said north west quarter, a distance of 660 feet to a point; thence South 89 Degrees 34'43" east, a distance of 660 feet to the true point of beginning.

PARCEL 2:

That portion of Lot 1 of the northwest quarter of Section 6, Township 10 North, Range 7 west, S.B.B.M., in the unincorporated area of the County of Kern, State of California, as per the Official Plat thereof on file in the Office of the Surveyor General, described as follows:

Beginning at the northeast corner of the northwest quarter of said Section 6; thence south along the east line of said northwest quarter, a distance of 1,379.99 feet to a point; thence North 89 Degrees 34'43" west, parallel with the north line of said northwest quarter, a distance of 1,980 feet to the true point of beginning; thence South 0 Degrees 36'16" east, parallel with the east line of said northwest quarter, a distance of 660 feet to a point; thence North 89 Degrees 34'43" west, a distance of 660 feet to a point; thence North 0 Degrees 36'16" west, a distance of 660 feet to a point thence South 89 Degrees 34'43" east, a distance of 660 feet to the true point of beginning.

(Continued next page)

Lots 1 and 2 of the northwest quarter and Lots 1 and 2 of the southwest quarter of Fraction Section 6, Township 10 North, Range 7 West, S.B.B.M., in the unincorporated area of the County of Kern, State of California, as per the Official Plat thereof on file in the Office of the Surveyor General.

EXCEPTING THEREFROM that portion of Lot 1 of the northwest quarter of said Section 6 conveyed to Norma Koch, in deed recorded December 18, 1956 in Book 2705, Page 158 and re-recorded January 16, 1957 in Book 2717, Page 292 of Official Records, described as follows: Beginning at the northeast corner of the northwest quarter of said Section 6; thence south along the east line of said northwest quarter a distance of 1,379.99 feet to a point; thence North 89 Degrees 34'43" west, parallel with the north line of said northwest quarter, a distance of 1,980 feet to the true point of beginning; thence South 0 Degrees 36'16" east, parallel with the east line of said northwest quarter, a distance of 660 feet to a point; thence North 89 Degrees 34'43" west, a distance of 660 feet to a point; thence North 0 Degrees 36'16" west, a distance of 660 feet to a point; thence South 89 Degrees 34'43" east, a distance of 660 feet to the true point of beginning.

ALSO EXCEPTING THEREFROM that portion of Lot 1 of the northwest quarter of said Section 6 conveyed to H.R. Mathy in deed recorded December 18, 1956 in Book 2705, Page 159 and re-recorded January 16, 1957 in Book 2717, Page 294 of Official Records, described as follows:

Beginning at the northeast corner of the northwest quarter of said Section 6, thence south, along the east line of said northwest quarter, a distance of 1,379.99 feet to a point; thence North 89 Degrees 34'43" west parallel to the north line of said northwest quarter, a distance of 1,320 feet to the true point of beginning; thence South 0 Degrees 36'16" west, parallel to the east line of said northwest quarter, a distance of 660 feet to a point; thence west, parallel to the north line of said northwest quarter, a distance of 660 feet to a point; thence North 0 Degrees 36'16" east, parallel with the east line of said northwest quarter, a distance of 660 feet to a point; thence South 89 Degrees 34'43" east, a distance of 660 feet to the true point of beginning.

28 January 2019

91MC 8me LLC
ATTN: Venai Shenoy
250 Sutter Street, 6th Floor
San Francisco, CA 94108

RE: Peak Valley Solar Farm Project, Kern County, CA – Executive Summary Letter Report

Dear Mr. Shenoy:

PURPOSE

This Letter Report (the "Report") has been prepared to:

(1) Provide an overview of the munitions studies and remedial activities that have occurred at the Peak Valley Solar Farm Project (the "Project") location in Kern County, California.

(2) Characterize the minimal risk posed to human health and the environment in developing the Project as proposed by 91MC 8me, LLC.

(3) Provide Risk Mitigation development recommendations should the Peak Valley Solar Farm Project proceed.

EXECUTIVE SUMMARY

- The National Defense Authorization Act (the "Act") required Edwards Air Force Base to develop an initial inventory and response prioritization protocol for Munitions Response Site ("MRS") AL505-2, which comprises a portion of the Project site.
- A Comprehensive Site Evaluation ("CSE") Phase I was performed onsite in 2005 to 2006 to characterize AL505-2 for actual or potential presence of Munitions and Explosives of Concern ("MEC") and to evaluate actual or potential release(s) of Munition Constituents ("MC") to migration/exposure pathways (groundwater, soil, and air).
- In 2007, at the US Army Corps of Engineers' direction, Bay West conducted a CSE Phase II investigation at AL505-2 to determine whether additional munitions response activities were warranted based on the results of the CSE Phase I performed in 2005-2006. The CSE Phase II also included soil sampling & analyses for MC, explosives, and metals
- The results of the CSE Phase II investigation were as follows:
    - No MEC or Material Potentially Presenting an Explosive Hazard ("MPPEH") were observed onsite nor is any expected to be found in the future – based on historical records of site utilization by the Department of Defense.

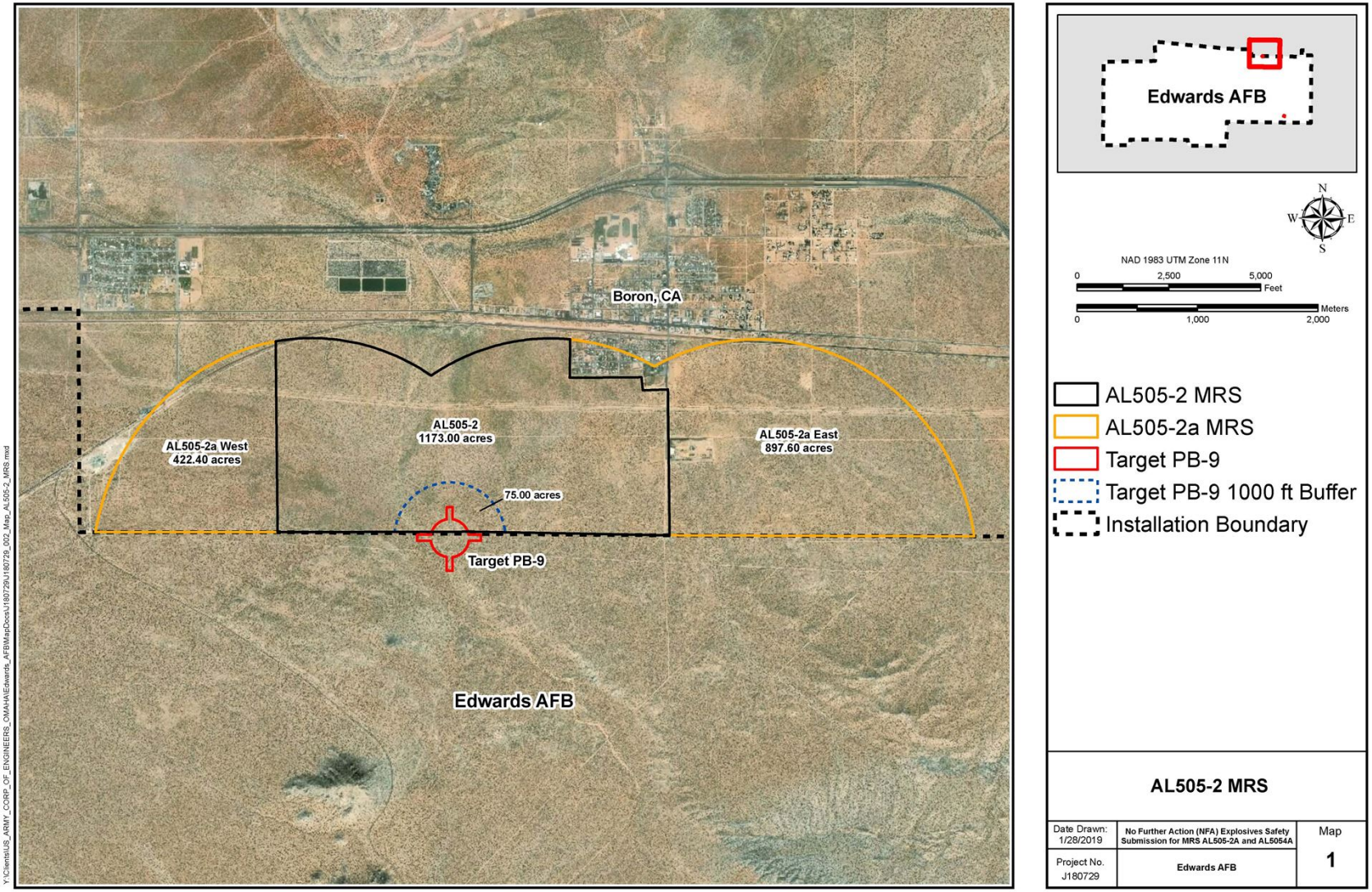
- No exceedances were detected above the calculated background concentrations, residential regional screening levels (RSLs) or industrial RSLs.
- Although the presence of Munitions Debris ("MD") attributed to the PB-9 bombing target was confirmed, as expected, no risk to human health or the environment is expected due to MD.
- AL505-2 was split into separate sites: AL505-2a (east and west portions) and AL505-2 (central portion). AL505-2a (east and west portions) was recommended for No Further Action ("NFA"), and was later removed from the MMRP inventory by the Department of Defense Explosive Safety Board (DDESB) in March of 2017. AL505-2 (central portion) was recommended to proceed with additional studies, including a Remedial Investigation/ Feasibility Study ("RI/FS").

- From March-June 2012, a Non-Time Critical Removal Action ("NTCRA") Surface Clearance was conducted, resulting in the identification and removal of MD and non-munitions related debris ("NMRD") from the site, however no MEC items were identified. Subsequently a Remedial Investigation/Feasibility Study was conducted in December 2015, and again no MEC were found.
- In February 2018, a draft RI/FS report was submitted to the Air Force and California regulators recommending NFA and that the site be removed from the MMRP inventory. The draft report is awaiting formal comments and/or approval.
- In support of this letter report Bay West contracted TechLaw, Inc. to conduct an abbreviated historical records review for the Peak Valley Project Area, contained herein as **Attachment 1.** As part of TechLaw's records review they contacted The Kern County Sheriff's office to determine if any reports had been filed reporting munitions on the property since the RI investigation had been completed. There were no reports of found munitions reported for the property.

STATUS TABLE OF MUNITIONS RESPONSE SITE INVESTIGATIONS

	AL505-2a (East and West)	AL505-2 (Central)
Total Acres	1,320 acres	1,173 acres
CSE Phase I	Completed, 2006.	Completed, 2006.
CSE Phase II	Completed, 2007.	Completed, 2007.
Non-Time Critical Removal Action Surface Clearance	No further investigation	Completed, 2012.
Remedial Investigation/ Feasibility Study	No further investigation	Completed, 2016.
No Further Action ("NFA")	NFA adoption complete; "DDESB" approved ESS – NFA on AL505-2a on 30 March 2017	NFA recommended in February 2018.

OVERVIEW MAP OF MUNITIONS RESPONSE SITE



RISK MITIGATION MEASURES FOR DEVELOPMENT

If the Peak Valley Project proceeds, it is Bay West's recommendation that, at a minimum:

1. All site workers are given unexploded ordnance ("UXO") Awareness training by a DDESB Technical Paper 18 qualified UXO technician as part of the safety program. This training would focus on the munitions items that have previously been identified and associated with the site, including the condition they are likely to be found in.
2. In the event a munitions item is recovered follow notification procedures identified in the UXO Awareness training. Recognize, Retreat and Report the munitions item, initial report will be to California Highway Patrol ("CHP") office in Bakersfield, CA office, phone number (661) 396-6600. CHP will make notification to Edwards AFB Base Explosive Ordnance Disposal ("EOD") unit.
3. Any ground disturbance activities occurring within 1,000 feet of the historical PB-9 target should include construction support by a minimum of two DDESB Technical Paper 18 qualified UXO technicians. This would allow the opportunity for real-time surveillance of ground disturbing activities and an assessment of anomalous debris to be conducted immediately.

DETAILED DISCUSSION

The legislation of the National Defense Authorization Act of 2002 set the Military Munitions Response Program ("MMRP") in motion requiring that military services develop an initial inventory of all current and former military areas and response prioritization protocol for each MMRP area. The inventory under the Edwards Air Force Base ("EAFB") MMRP identified six Munitions Response Areas (MRAs) for evaluation which included AL505-2.

A Comprehensive Site Evaluation ("CSE") Phase I (i.e., equivalent to the Comprehensive Environmental Response, Compensation, and Liability Act [CERCLA] Preliminary Assessment [PA]), was performed in 2005 to 2006 (USACE, 2006) to characterize AL505-2.

In 2007, the Air Force conducted the CSE Phase II investigation at AL505-2 (i.e., equivalent to CERCLA Site Inspection [SI]) (USACE, 2010a).

In 2012, a Non-Time Critical Removal Action ("NTCRA") surface clearance was conducted based on the results of the CSE Phase II.

In 2015, a Remedial Investigation/Feasibility Study was conducted at AL505-2. The Draft Report for that action is currently under review by the Air Force and California State Regulators.

Bay West LLC (Bay West) was tasked in 2007 by the United States Army Corps of Engineers ("USACE") to perform a CSE Phase II at the Peak Valley Project location under the Air Force MMRP. The purpose of the CSE Phase II was to determine whether additional munitions response activities were warranted based on the results of the CSE Phase I performed in 2005/2006. The CSE Phase I was used to characterize the site for actual or potential presence of MEC and to evaluate actual or potential release(s) of MC to migration/exposure pathways (groundwater, soil, and air) from the site. The CSE Phase I is analogous to the CERCLA PA, as modified by the AF's CSE Guidance. The follow-up CSE Phase II is equivalent to the CERCLA SI, as modified by the AF's CSE Guidance. This CSE Phase II effort included MEC investigation activities in accordance with CERCLA and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP).

The results of the CSE Phase II investigation confirmed the presence of munitions debris (MD) attributed to the PB-9 bombing target, however no MEC or MPPEH was observed. The MD was composed primarily of components of the 100-pound sand-filled practice bombs. Due to the presence of MD and therefore the potential for MEC/MPPEH, the site was recommended for further investigation. Soil sampling was also conducted as part of the CSE Phase II investigation for MC, analytes included explosives and metals. There were no exceedances detected above the calculated background concentrations, residential regional screening levels ("RSLs") or industrial RSLs.

The project site MRS AL505-2, was split based on the results of the CSE Phase II. AL505-2 ("Central") was recommended to proceed to the next phase. AL505-2a (east and west) were recommended for no further action ("NFA") under the MMRP. The Department of Defense Explosive Safety Board (DDESB) approved an Explosives Safety Submission ("ESS") – NFA AL505-2a on 30 March 2017, effectively removing that portion of the site from the MMRP inventory.

In February 2012 the AF signed an action memorandum approving a NTCRA documenting the selected remedial action for a surface clearance. UXB International, Inc. ("UXB") conducted the NTCRA at AL505-2 between March 2012 and June 2012. The NTCRA resulted in the removal of 5,334 pounds of MD and 7,627 pounds of NMRD. No MEC items were recovered.

In October 2015 the project stakeholders agreed that Rights of Entry (ROE) obtained for AL505-2 were sufficient to meet the data quality objectives to conduct a Remedial Investigation/Feasibility Study. In December 2015 Bay West conducted the field work. The coverage area was determined using UXO Estimator (now a UXO-module in Visual Sample Plan [VSP]). Digital Geophysical Mapping ("DGM") surveys were performed using the 3-meter coil between 10 and 16 December 2015 over 32.50 acres, exceeding the requirement of 29.33 acres. A transect spacing of 380 ft between centerlines was used at AL505-2. A total of 313 anomalies were selected for intrusive investigation over 2.77% of the MRS based on the DGM performed. Of these anomalies, no MEC items were identified. 643 MD items were found in a clustered area adjacent to the Edwards AFB installation boundary. The MD recovered consisted primarily of parts and pieces of M38 100-lb practice bombs, with several 20 mm cartridge cases and one expended 4-lb AN-M54 series incendiary bomb. MD was found just below ground surface ("bgs") and up to a maximum of 42 inches bgs. The average depth of MD recovered was 14 inches bgs.

The total weight of material documented as safe ("MDAS") recovered and removed from the MRS during the RI was 396 lb. An additional 472 NMRD items were found. There were 13 anomalies that had originally been selected for intrusive investigation; however, ultimately these anomalies were not investigated because they were determined to be related to a utility source or were determined to be elevated during DGM due to terrain responses and were not detected above the selection threshold during reacquisition. No environmental sampling was performed because no MEC indicative of potential sources for MC was found during the RI.

There is no known MEC at AL505-2. Only MD was identified during the RI. There were no detected levels of MC in soil that were above the human health screening levels used to evaluate potential risk to human receptors during the CSE phase of investigation, and no additional sampling has been warranted/performed at the MRS.

Environmental sampling performed during the CSE Phase II within AL505-2 does not indicate that a potential risk to ecological receptors is present based on comparison to available ecological screening levels. The RI did not encounter any new information or collect new data for the MRS that changes this conclusion.

In February 2018 the draft RI/FS study, which included AL505-2, was submitted to the AF and California regulators for review. The recommendation of NFA has been made and that the site be closed from the MMRP inventory. To date no agreement has been received from the AF or regulators.

In support of this letter report Bay West contracted TechLaw, Inc. to conduct an abbreviated historical records review for the Peak Valley Project Area, contained herein as **Attachment 1.** As part of TechLaw's records review they contacted The Kern County Sheriff's office to determine if any reports had been filed reporting munitions on the property since the RI investigation had been completed. There were no reports of found munitions reported for the property.

If you have any questions about this letter report, please contact me as indicated below.

For Bay West

Yours truly,

Steve Thornton, PMP
Senior Project Manager
651-341-3267
stevet@baywest.com

Attachment 1: Abbreviated Historical Records Review for Peak Valley Project Area (Edwards AFB AL505-2), CA. TechLaw, Inc. 2018

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number of pages including cover sheet: 4

attention to: Todd Bruckel date: 3/29/19

company: 8 Minute Energy from: John Finne

phone #: _____ company: _____

fax #: 310-424-7112 senders phone #: 562-508-5008

comments: _____

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Attn: Todd Brucker
Fax: 310-424-7112

PHASE I ESA USER'S QUESTIONNAIRE

In order to qualify for protection from land owner liability under CERCLA as an *innocent landowner, bona fide prospective purchaser,* or *contiguous property owner,* ASTM standard practice E1527-05 and the federal AAI rule (40 CFR 312) require that the User of the Phase I ESA report provide certain information (if available) to the Environmental Professional completing the assessment. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. Information that is not or cannot be provided to the Environmental Professional may be identified as a "data gap" in the Phase I ESA report.

Please answer the following questions as completely as possible. Attach additional pages as needed. Return the completed questionnaire to Stantec along with the executed Authorization For services form.

1. Property Information

Property Name: Vacant lots

Property Address: Assessor's Parcel #s: 244-040-11, 244-040-12, 244-04 19

City: Boron State CA Zip 93516

Property Owner Name: John H. Finne

Property Owner Phone #: 562-508-5008

2. Contact For Site Access

Name: Owner - John Finne

Company/Organization/Title: none

Phone # 562-508-5008 E-Mail Address: longshorejohn@yahoo.com

3. Environmental Cleanup Liens. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

____ Yes X No

If yes, describe or attach details of the lien ____

4. Activity and Land Use Limitations. Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls that are in

place at the property and/or have been filed or recorded as applicable to the property as a result of environmental contamination, investigation, cleanup, or related matters?

_____ Yes _____X_____ NO

If yes, describe or attach details of the limitations _____

_____

5. Specialized Knowledge or Experience. As the User of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property, such that you would have specialized knowledge about chemicals and processes used by this type of business?

_____ Yes _____X_____ NO

If yes, describe or attach details of your specialized knowledge or experience _____

_____

6. Relationship of Purchase Price to Fair Market Value of Property. Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, do you have any reason to believe that the reduced purchase price may be related to contamination known or believed to be present at the property?

_____Yes. I have reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property?

_____X_____No. I have no reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property?

_____Not applicable. User is not involved in a purchase of the property.

7. Commonly Known or Reasonably Ascertainable Information. 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 of hazardous substances or petroleum products? For example:

Do you know the past uses of the property?

_____Yes (describe) _____

_____

_____

_____X_____No

Do you know of chemicals, hazardous substances or petroleum products that are present or once were present at the property?

_____Yes (describe) _____

_____

_____

__X__No

Do you know of spills or other releases of chemicals, hazardous substances or petroleum products that have taken place at the property?

_____Yes (describe) _____

_____

_____

__X__No

Do you know of any environmental cleanups that have taken place at the property?

_____Yes (describe) _____

_____

_____

__X__No

3. <u>The Degree of Obviousness of Contamination.</u> E1527-05 and the federal AAI rule (40 CFR 312.31) require that the Phase I ESA consider the degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation. Based on your knowledge and experience related to the property, are there any *obvious* indictors that point to the presence or likely presence of contamination at the property?

_____Yes (describe) _____

_____

_____

__X__No

4. <u>Availability of Previous Environmental Reports.</u> Are you aware of previous environmental site assessment reports, other environmental reports, documents, correspondence, etc. concerning the property and its environmental condition?

_____Yes (describe) _____

_____

_____

__X__No

Signature: _____

Name (printed): John H. Finne

Title: Owner

Date: 3/29/19

PHASE I ESA USER'S QUESTIONNAIRE

In order to qualify for protection from land owner liability under CERCLA as an *innocent landowner, bona fide prospective purchaser,* or *contiguous property owner,* ASTM standard practice E1527-05 and the federal AAI rule (40 CFR 312) require that the User of the Phase I ESA report provide certain information (if available) to the Environmental Professional completing the assessment. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. Information that is not or cannot be provided to the Environmental Professional may be identified as a "data gap" in the Phase I ESA report.

Please answer the following questions as completely as possible. Attach additional pages as needed. Return the completed questionnaire to Stantec along with the executed Authorization For services form.

1. Property Information

Property Name: N/A

Property Address: N/A

City: BORON State CA Zip _____

Property Owner Name: TIM CAO

Property Owner Phone #: (408) 838-6440

2. Contact For Site Access

Name: N/A

Company/Organization/Title: _____

Phone # _____ E-Mail Address: _____

3. Environmental Cleanup Liens. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

_____ Yes ___X___ No

If yes, describe or attach details of the lien _____

_____

4. Activity and Land Use Limitations. Are you aware of any activity and use limitations, such as engineering controls, land use restrictions, or institutional controls that are in

place at the property and/or have been filed or recorded as applicable to the property as a result of environmental contamination, investigation, cleanup, or related matters?

_____ Yes ___X___ No

If yes, describe or attach details of the limitations _____

_____

5. Specialized Knowledge or Experience. As the User of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property, such that you would have specialized knowledge about chemicals and processes used by this type of business?

_____ Yes ___X___ No

If yes, describe or attach details of your specialized knowledge or experience _____

_____

6. Relationship of Purchase Price to Fair Market Value of Property. Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, do you have any reason to believe that the reduced purchase price may be related to contamination known or believed to be present at the property?

_____Yes, I have reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property?

___X___No, I have no reason to believe that the purchase price for the property has been reduced in comparison with the fair market value due to contamination known or believed to be present at the property?

_____Not applicable. User is not involved in a purchase of the property.

7. Commonly Known or Reasonably Ascertainable Information. 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 of hazardous substances or petroleum products? For example:

Do you know the past uses of the property?

_____Yes (describe) _____

_____

_____

___X___No

Do you know of chemicals, hazardous substances or petroleum products that are present or once were present at the property?

_____Yes (describe) _____

_____

_____

__X__No

Do you know of spills or other releases of chemicals, hazardous substances or petroleum products that have taken place at the property?

_____Yes (describe) _____

_____

_____

__X__No

Do you know of any environmental cleanups that have taken place at the property?

_____Yes (describe) _____

_____

_____

__X__No

8. The Degree of Obviousness of Contamination. E1527-05 and the federal AAI rule (40 CFR 312.31) require that the Phase I ESA consider the degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation. Based on your knowledge and experience related to the property, are there any *obvious* indictors that point to the presence or likely presence of contamination at the property?

_____Yes (describe) _____

_____

_____

__X__No

9. Availability of Previous Environmental Reports. Are you aware of previous environmental site assessment reports, other environmental reports, documents, correspondence, etc. concerning the property and its environmental condition?

_____Yes (describe) _____

_____

_____

__X__No

Signature: _____

Name (printed): TIM CAO

Title: OWNER

Date: 3-19-19

Appendix D ENVIRONMENTAL AGENCY DATABASE SEARCH REPORT

Aratina Solar Farm
Kern County
Boron, CA 93516

Inquiry Number: 5601598.2s
March 26, 2019

EDR Area / Corridor Report

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

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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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EXECUTIVE SUMMARY

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), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

KERN COUNTY
BORON, CA 93516

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifcations refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

A review of the NPL list, as provided by EDR, and dated 02/06/2019 has revealed that there is 1 NPL site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA Cerclis ID:: 902725 EPA Id: CA1570024504	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

Federal CERCLIS list

SEMS: Superfund Enterprise Management System

A review of the SEMS list, as provided by EDR, and dated 02/06/2019 has revealed that there is 1 SEMS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA Site ID: 0902725 EPA Id: CA1570024504	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

EXECUTIVE SUMMARY

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

A review of the CORRACTS list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 CORRACTS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA EPA ID:: CA1570024504	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-TSDF site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA EPA ID:: CA1570024504	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-LQG site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA EPA ID:: CA1570024504	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A review of the US ENG CONTROLS list, as provided by EDR, and dated 01/31/2019 has revealed that there is 1 US ENG CONTROLS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA EPA ID:: CA1570024504 EPA ID:: CA1570024504	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

EXECUTIVE SUMMARY

US INST CONTROL: Sites with Institutional Controls

A review of the US INST CONTROL list, as provided by EDR, and dated 01/31/2019 has revealed that there is 1 US INST CONTROL site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***
EPA ID:: CA1570024504			

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/28/2019 has revealed that there is 1 ENVIROSTOR site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***
Facility Id: 15970001			
Status: Active			

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Information System

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
KERN COUNTY PUBLIC W	***11400 BORON AVENUE***	***B9 / 13***	***424***
Database: SWF/LF (SWIS), Date of Government Version: 02/11/2019			
Facility ID: 15-AA-0045			
Operational Status: Active			
Regulation Status: Permitted			

State and tribal registered storage tank lists

UST: Active UST Facilities

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
ROCKET SITE MINI MAR	24009 TWENTY MULE TE	A1 / 11	411
Database: KERN CO. UST, Date of Government Version: 01/28/2019			
Facility ID: FA0002643			

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 WMUDS/SWAT site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BORON CLASS III LAND	***5 MI SO OF BORON***	***8 / 13***	***416***

HAULERS: Registered Waste Tire Haulers Listing

A review of the HAULERS list, as provided by EDR, and dated 09/26/2018 has revealed that there is 1 HAULERS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
KERN COUNTY PUBLIC W Facility ID: 1102516	***11400 BORON AVENUE***	***B9 / 13***	***424***

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Historical Calsites Database

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

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 the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
ROCKET SITE MINI MAR Status: A Tank Status: A Comp Number: 54476	***24009 20 MULE TEAM R***	***A5 / 11***	***414***

EXECUTIVE SUMMARY

HIST UST: Hazardous Substance Storage Container Database

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
ROCKET SITE MINI MAR Facility Id: 00000054476	24009 20 MULE TEAM R	A4 / 11	413
ROCKET SITE MINI MAR	***24009 20 MULE TEAM R***	***A5 / 11***	***414***

CA FID UST: Facility Inventory Database

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 the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
ROCKET SITE MINI MAR Facility Id: 15005082 Status: A	***24009 20 MULE TEAM R***	***A5 / 11***	***414***

Local Land Records

DEED: Deed Restriction Listing

A review of the DEED list, as provided by EDR, and dated 12/03/2018 has revealed that there is 1 DEED site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA Status: ACTIVE Envirostor ID: 15970001	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

Records of Emergency Release Reports

LDS: Land Disposal Sites Listing

A review of the LDS list, as provided by EDR, and dated 12/10/2018 has revealed that there is 1 LDS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BORON CLASS III LAND Global Id: L10004638786 Status: Open - Operating	***5 MI SO OF BORON***	***8 / 13***	***416***

EXECUTIVE SUMMARY

MCS: Military Cleanup Sites Listing

A review of the MCS list, as provided by EDR, and dated 12/10/2018 has revealed that there is 1 MCS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA Global Id: DOD100133200 Status: Open - Inactive		15 / 11	428

Other Ascertainable Records

DOD: Department of Defense Sites

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA		Region / 8,9,10,11,16,17,18,19,22,20,21	411

ROD: Records Of Decision

A review of the ROD list, as provided by EDR, and dated 12/12/2018 has revealed that there is 1 ROD site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA EPA ID:: CA1570024504	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

RAATS: RCRA Administrative Action Tracking System

A review of the RAATS list, as provided by EDR, and dated 04/17/1995 has revealed that there is 1 RAATS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA Status: 20 Facility ID: CA1570024504	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

PRP: Potentially Responsible Parties

A review of the PRP list, as provided by EDR, and dated 08/13/2018 has revealed that there is 1 PRP site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

EXECUTIVE SUMMARY

ICIS: Integrated Compliance Information System

A review of the ICIS list, as provided by EDR, and dated 11/18/2016 has revealed that there is 1 ICIS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***
FRS ID:: 110000908466			

US AIRS: Aerometric Information Retrieval System Facility Subsystem

A review of the US AIRS list, as provided by EDR, has revealed that there is 1 US AIRS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***
Database: US AIRS (AFS), Date of Government Version: 10/12/2016			
EPA plant ID:: 110000908466			

FINDS: Facility Index System/Facility Registry System

A review of the FINDS list, as provided by EDR, and dated 02/15/2019 has revealed that there are 3 FINDS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
KCWMD - BORON LANDFI	11400 BORON AVE	B10 / 13	426
Registry ID:: 110065930559			
BORON SANITARY LANDF	11400 BORON AVENUE	B13 / 13	427
Registry ID:: 110012695299			
BORON SLF	11400 BORON AVENUE	B14 / 13	428
Registry ID:: 110060756882			

UXO: Unexploded Ordnance Sites

A review of the UXO list, as provided by EDR, and dated 09/30/2017 has revealed that there are 2 UXO sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
OFF BASE ADJACENT AR		C16 / 12	428
OFF BASE ADJACENT AR		C17 / 12	429

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A review of the DOCKET HWC list, as provided by EDR, and dated 05/31/2018 has revealed that there is 1 DOCKET HWC site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

EXECUTIVE SUMMARY

ECHO: Enforcement & Compliance History Information

A review of the ECHO list, as provided by EDR, and dated 09/02/2018 has revealed that there is 1 ECHO site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BORON SANITARY LANDF	11400 BORON AVENUE	B11 / 13	426

ENF: Enforcement Action Listing

A review of the ENF list, as provided by EDR, and dated 11/01/2018 has revealed that there is 1 ENF site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BORON CLASS III LAND	***5 MI SO OF BORON***	***8 / 13***	***416***
Status: Historical			
Status: Historical			
Facility Id: 210078			

Financial Assurance: Financial Assurance Information Listing

A review of the Financial Assurance list, as provided by EDR, has revealed that there is 1 Financial Assurance site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
KERN COUNTY PUBLIC W	***11400 BORON AVENUE***	***B9 / 13***	***424***
Database: Financial Assurance 2, Date of Government Version: 02/15/2019			
SWIS No: 15-AA-0045			

HAZNET: Facility and Manifest Data

A review of the HAZNET list, as provided by EDR, and dated 12/31/2017 has revealed that there are 3 HAZNET sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
GEORGE GIBSON	24009 TWENTY MULETEA	A2 / 11	412
GEPAID: CAC002136401			
MIKE'S AUTOMOTIVE	24045 TWENTY MULE TE	A6 / 11	415
GEPAID: CAL000226267			
KERN COUNTY PUBLIC W	***11400 BORON AVENUE***	***B9 / 13***	***424***
GEPAID: CAH111000199			

ICE: ICE

A review of the ICE list, as provided by EDR, and dated 02/19/2019 has revealed that there is 1 ICE site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA	***5 EAST POPSON AVE BL***	***Region / 8,9,10,11,16,17,18,19,20,21,22***	***51***

WDS: Waste Discharge System

A review of the WDS list, as provided by EDR, and dated 06/19/2007 has revealed that there is 1 WDS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BORON CLASS III LAND	***5 MI SO OF BORON***	***8 / 13***	***416***
Facility Status: A			
Facility Id: 6B150303003			
Facility Id: 6B15I013466			

CIWQS: California Integrated Water Quality System

A review of the CIWQS list, as provided by EDR, and dated 12/03/2018 has revealed that there are 2 CIWQS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
TLRR KRAMER-HOLGATE	NORTH OF HWY 58 AT B	7 / 13	416
BORON CLASS III LAND	***5 MI SO OF BORON***	***8 / 13***	***416***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR Exclusive Historical Auto Stations

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
ROCKET SITE MINI-MAR	24009 TWENTY MULE TE	A3 / 11	412

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

A review of the RGA LF list, as provided by EDR, has revealed that there is 1 RGA LF site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BORON SANITARY LANDF	11400 BORON AVENUE	B12 / 13	427
Facility ID: 15-AA-0045			

EXECUTIVE SUMMARY

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifcations refer to the EDR Area/Corridor 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

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

A review of the CORRACTS list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 CORRACTS site within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
U.S. BORAX MINE EPA ID:: CAD008323255	***NORTH ON BORAX RD, O***	***N 1/2 - 1 (0.762 mi.)***	***51 / 4***	***584***

Federal RCRA generators list

RCRA-SQG: RCRA - Small Quantity Generators

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
MOJAVE COGENERATION EPA ID:: CAD983658519	BORAX RD 3/4 MI N OF	ENE 0 - 1/8 (0.016 mi.)	18 / 11	429
BORON AUTO BODY EPA ID:: CAD982462855	***26049 20 MULETEAM RD***	***N 0 - 1/8 (0.120 mi.)***	***39 / 12***	***559***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/28/2019 has revealed that there is 1 ENVIROSTOR site within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
US BORAX AND CHEMICA Facility Id: 15280001 Status: Refer: RCRA	HIGHWAY 58	NNE 0 - 1/8 (0.116 mi.)	G38 / 11	557

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Information System

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
BORON MINE FACILITY	***14486 BORAX RD***	***NNE 0 - 1/8 (0.100 mi.)***	***F33 / 11***	***480***
Database: SWF/LF (SWIS), Date of Government Version: 02/11/2019 Facility ID: 15-AA-0278 Operational Status: Active Regulation Status: Permitted				

State and tribal leaking storage tank lists

LUST: Geotracker's Leaking Underground Fuel Tank Report

A review of the LUST list, as provided by EDR, has revealed that there are 13 LUST sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
JC FENNEL & SONS	***27401 20 MULE TEAM***	***N 0 - 1/8 (0.089 mi.)***	***E21 / 13***	***433***
Database: LUST REG 6V, Date of Government Version: 06/07/2005				
JC FENNELL & SONS GA	27401 20 MULE TEAM R	N 0 - 1/8 (0.089 mi.)	E24 / 13	436
Database: LUST, Date of Government Version: 12/10/2018 Status: Open - Site Assessment Global Id: T0602900888				
BORON TEXACO	***27195 TWENTY MULE TE***	***N 0 - 1/8 (0.091 mi.)***	***D27 / 13***	***443***
Database: LUST REG 6V, Date of Government Version: 06/07/2005 Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0602901008 Status: Pollution Characterization				
U.S. BORAX	***14486 BORAX ROAD***	***NNE 0 - 1/8 (0.100 mi.)***	***F30 / 11***	***457***
Database: LUST REG 6V, Date of Government Version: 06/07/2005 Close Date: 8/31/1992 Status: Case Closed				
BORON MINE FACILITY	***14486 BORAX RD***	***NNE 0 - 1/8 (0.100 mi.)***	***F33 / 11***	***480***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T060292419				
FEDERAL PRISON CAMP	HWY 395	N 1/8 - 1/4 (0.192 mi.)	H41 / 12	561
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0602900834				
GEPHART SCHOOL	T11N R7W SECTION 19	N 1/8 - 1/4 (0.192 mi.)	H42 / 12	563
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0602900893				
KERN COUNTY FIRE DEP	***26965 COTE ST***	***NNW 1/4 - 1/2 (0.350 mi.)***	***J45 / 12***	***565***
Database: LUST, Date of Government Version: 12/10/2018				

Status: Completed - Case Closed
Global Id: T0602900899

KERN COUNTY FIRE STA ***26965 COTE*** ***NNW 1/4 - 1/2 (0.350 mi.)*** ***J46 / 12*** ***571***
Database: LUST REG 6V, Date of Government Version: 06/07/2005
Status: Remediation Plan

CIRCLE K STORE #749 ***12366 BORON AVE*** ***N 1/4 - 1/2 (0.391 mi.)*** ***K47 / 13*** ***573***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0602900961

CIRCLE K #749 ***12366 BORON AVE*** ***N 1/4 - 1/2 (0.391 mi.)*** ***K48 / 13*** ***577***
Database: LUST REG 6V, Date of Government Version: 06/07/2005
Close Date: 10/24/1995
Status: Case Closed

BORON HIGH SCHOOL ***26653 PROSPECT*** ***NNE 1/4 - 1/2 (0.448 mi.)*** ***L49 / 12*** ***579***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T060299521

BORON MAINTENANCE FA 26653 PROSPECT AVENU NNE 1/4 - 1/2 (0.448 mi.) L50 / 12 582
Database: LUST REG 6V, Date of Government Version: 06/07/2005
Close Date: 3/14/1997
Status: Case Closed

CPS-SLIC: Statewide SLIC Cases

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
U S BORAX INC	***14486 BORAX ROAD***	***NNE 0 - 1/8 (0.100 mi.)***	***F32 / 11***	***472***
Database: SLIC REG 6V, Date of Government Version: 05/24/2005 Facility Id: SL206073825 Case Status: 7				
BORON MINE FACILITY	***14486 BORAX RD.***	***NNE 0 - 1/8 (0.100 mi.)***	***F34 / 11***	***546***
Database: CPS-SLIC, Date of Government Version: 12/10/2018 Facility Status: Open - Remediation Global Id: SL206073825				

State and tribal registered storage tank lists

UST: Active UST Facilities

A review of the UST list, as provided by EDR, has revealed that there are 6 UST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
JIMS MOBIL SERV	27127 TWENTY MULE TE	N 0 - 1/8 (0.086 mi.)	20 / 13	432
Database: KERN CO. UST, Date of Government Version: 01/28/2019 Facility ID: FA0003177				
FENNELL & SON'S GARA	27401 20 MULE TEAM R	N 0 - 1/8 (0.089 mi.)	E22 / 13	435
Database: KERN CO. UST, Date of Government Version: 01/28/2019				

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
BORON SERVICE STATIO	27195 TWENTY MULE TE	N 0 - 1/8 (0.091 mi.)	D25 / 13	441
Database: KERN CO. UST, Date of Government Version: 01/28/2019 Database: UST, Date of Government Version: 12/10/2018 Facility Id: FA0002920 Facility ID: FA0002920				
ELIZABETH DYSON PROP	27201 TWENTY MULE TE	N 0 - 1/8 (0.091 mi.)	D28 / 13	451
Database: KERN CO. UST, Date of Government Version: 01/28/2019 Facility ID: FA0032205				
U S BORAX INC	14486 BORAX RD	NNE 0 - 1/8 (0.100 mi.)	F31 / 11	471
Database: KERN CO. UST, Date of Government Version: 01/28/2019 Database: UST, Date of Government Version: 12/10/2018 Facility ID: FA0000958				
DEBORD-PRIVATE RESID	27044 ANDERSON ST	N 1/8 - 1/4 (0.224 mi.)	I44 / 13	564
Database: KERN CO. UST, Date of Government Version: 01/28/2019				

AST: Aboveground Petroleum Storage Tank Facilities

A review of the AST list, as provided by EDR, has revealed that there are 2 AST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
U S BORAX INC	***14486 BORAX ROAD***	***NNE 0 - 1/8 (0.100 mi.)***	***F32 / 11***	***472***
Database: AST, Date of Government Version: 07/06/2016				
U S BORAX INC	14486 BORAX RD	NNE 0 - 1/8 (0.100 mi.)	F35 / 11	548
Database: AST, Date of Government Version: 07/06/2016				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 WMUDS/SWAT site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
BORON MINE FACILITY	***14486 BORAX RD***	***NNE 0 - 1/8 (0.100 mi.)***	***F33 / 11***	***480***

SWRCY: Recycler Database

A review of the SWRCY list, as provided by EDR, and dated 12/10/2018 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
GREEN FIELD RECYCLIN	12025 GARDINER ST	NE 1/8 - 1/4 (0.153 mi.)	40 / 12	561

Cert Id: RC12897

Local Lists of Hazardous waste / Contaminated Sites

Toxic Pits: Toxic Pits Cleanup Act Sites

A review of the Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there is 1 Toxic Pits site within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
US BORAX, 6 NEW POND Closure Date: / / Task #: 06001 Status: ACTIVE	AND PONDS 4-6 / BORA	NNE 0 - 1/8 (0.104 mi.)	G37 / 11	557

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
JC FENNEL & SONS Comp Number: 9336	***27401 20 MULE TEAM***	***N 0 - 1/8 (0.089 mi.)***	***E21 / 13***	***433***
BORON TEXACO Status: A Tank Status: A Comp Number: 24209	***27195 TWENTY MULE TE***	***N 0 - 1/8 (0.091 mi.)***	***D27 / 13***	***443***
U S BORAX AND CHEMIC Status: A Tank Status: A Comp Number: 16901	***14486 BORAX RD***	***NNE 0 - 1/8 (0.100 mi.)***	***F36 / 11***	***549***

HIST UST: Hazardous Substance Storage Container 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 requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
DEBORD SEPTIC TANK S Facility Id: 00000032872	27044 ANDERSON ST	N 1/8 - 1/4 (0.224 mi.)	I43 / 13	564

CA FID UST: Facility Inventory Database

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 4 CA FID UST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
KNOTTS TEXACO SERVIC Facility Id: 15004804 Status: A	27195 20 M T RD	N 0 - 1/8 (0.078 mi.)	D19 / 13	431
J C FENNELL & SONS Facility Id: 15000491 Status: I	27401 20 MULE TEAM R	N 0 - 1/8 (0.089 mi.)	E23 / 13	435
U S BORAX AND CHEMIC Facility Id: 15000370 Status: A	***14486 BORAX RD***	***NNE 0 - 1/8 (0.100 mi.)***	***F36 / 11***	***549***
BORON AUTO BODY Facility Id: 15004597 Status: I	***26049 20 MULETEAM RD***	***N 0 - 1/8 (0.120 mi.)***	***39 / 12***	***559***

Other Ascertainable Records

US MINES: Mines Master Index File

A review of the US MINES list, as provided by EDR, has revealed that there is 1 US MINES site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
U S BORAX INC Database: US MINES, Date of Government Version: 08/01/2018 Mine ID:: 0402834		***NNE 0 - 1/8 (0.100 mi.)***	***F29 / 11***	***452***

HIST CORTESE: Hazardous Waste & Substance Site List

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 4 HIST CORTESE sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
JC FENNEL & SONS Reg Id: 6B1500443T	***27401 20 MULE TEAM***	***N 0 - 1/8 (0.089 mi.)***	***E21 / 13***	***433***
BORON TEXACO Reg Id: 6B1500951T	***27195 TWENTY MULE TE***	***N 0 - 1/8 (0.091 mi.)***	***D27 / 13***	***443***
KERN COUNTY FIRE STA Reg Id: 5B1500472T	***26965 COTE***	***NNW 1/4 - 1/2 (0.350 mi.)***	***J46 / 12***	***571***
CIRCLE K STORE #749 Reg Id: 6B1500669T	***12366 BORON AVE***	***N 1/4 - 1/2 (0.391 mi.)***	***K47 / 13***	***573***

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR Exclusive Historical Auto Stations

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
DENNISS TEXACO	27195 20 MULE TEAM R	N 0 - 1/8 (0.091 mi.)	D26 / 13	442

MAPPED SITES SUMMARY

Target Property:
KERN COUNTY
BORON, CA 93516

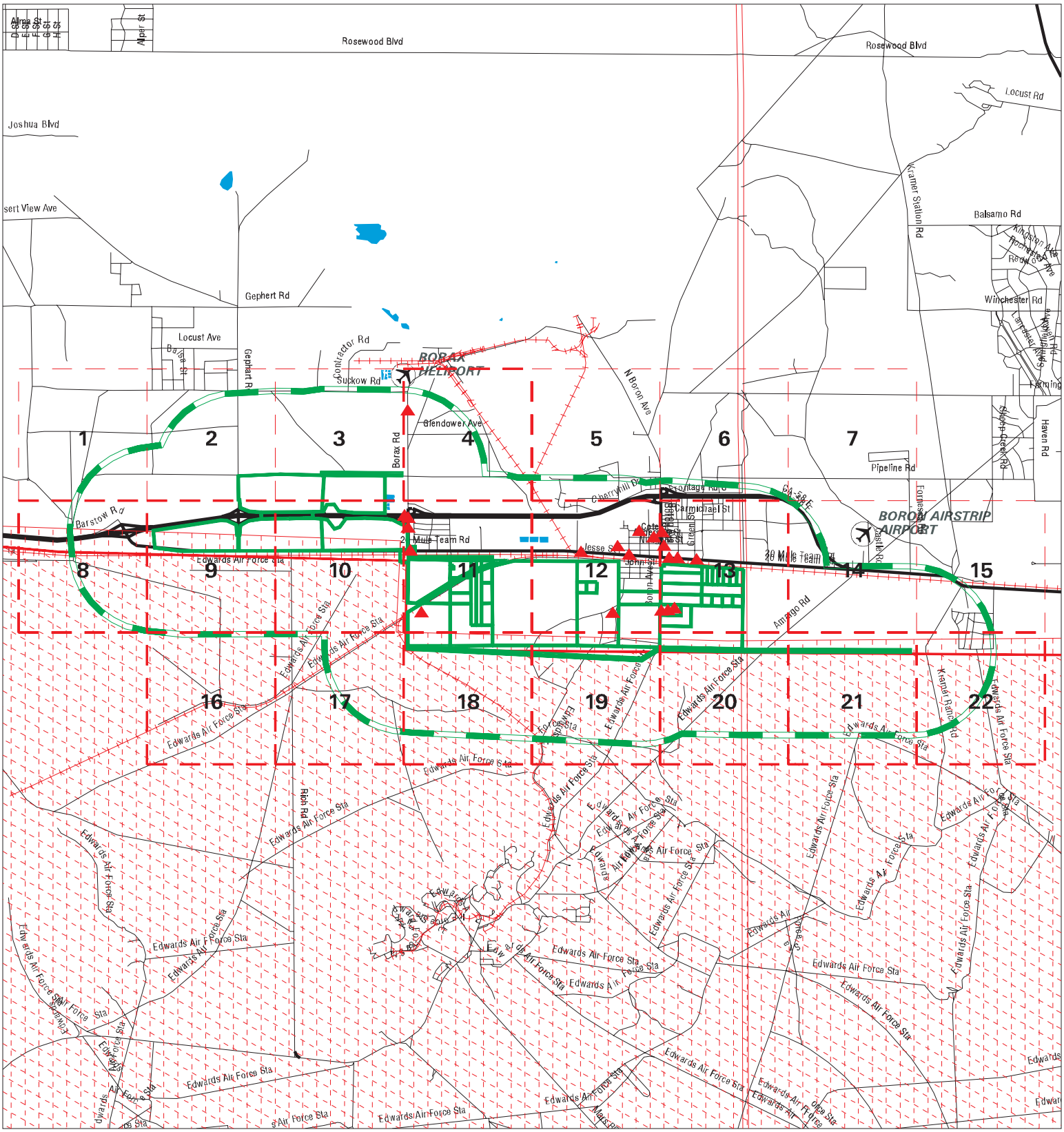
MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG...	TP		
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP		
A1 / 11	ROCKET SITE MINI MAR	24009 TWENTY MULE TE	UST	TP		
A2 / 11	GEORGE GIBSON	24009 TWENTY MULETEA	HAZNET	TP		
A3 / 11	ROCKET SITE MINI-MAR	24009 TWENTY MULE TE	EDR Hist Auto	TP		
A4 / 11	ROCKET SITE MINI MAR	24009 20 MULE TEAM R	HIST UST	TP		
A5 / 11	ROCKET SITE MINI MAR	24009 20 MULE TEAM R	SWEEPS UST, HIST UST, CA FID UST	TP		
A6 / 11	MIKE'S AUTOMOTIVE	24045 TWENTY MULE TE	HAZNET	TP		
7 / 13	TLRR KRAMER-HOLGATE	NORTH OF HWY 58 AT B	CIWQS	TP		
8 / 13	BORON CLASS III LAND	5 MI SO OF BORON	WMUDS/SWAT, LDS, ENF, WDS, CIWQS	TP		
B9 / 13	KERN COUNTY PUBLIC W	11400 BORON AVENUE	SWF/LF, HAULERS, Financial Assurance, HA...	TP		
B10 / 13	KCWMD - BORON LANDFI	11400 BORON AVE	FINDS	TP		
B11 / 13	BORON SANITARY LANDF	11400 BORON AVENUE	ECHO	TP		
B12 / 13	BORON SANITARY LANDF	11400 BORON AVENUE	RGA LF	TP		
B13 / 13	BORON SANITARY LANDF	11400 BORON AVENUE	FINDS	TP		
B14 / 13	BORON SLF	11400 BORON AVENUE	FINDS	TP		
15 / 11	EDWARDS AIR FORCE BA		MCS	TP		
C16 / 12	OFF BASE ADJACENT AR		UXO	TP		
C17 / 12	OFF BASE ADJACENT AR		UXO	TP		
18 / 11	MOJAVE COGENERATION	BORAX RD 3/4 MI N OF	RCRA-SQG	86	0.016	ENE
D19 / 13	KNOTTS TEXACO SERVIC	27195 20 M T RD	CA FID UST	412	0.078	North
20 / 13	JIMS MOBIL SERV	27127 TWENTY MULE TE	UST	455	0.086	North
E21 / 13	JC FENNEL & SONS	27401 20 MULE TEAM	LUST, SWEEPS UST, HIST CORTESE	468	0.089	North
E22 / 13	FENNELL & SON'S GARA	27401 20 MULE TEAM R	UST	468	0.089	North
E23 / 13	J C FENNELL & SONS	27401 20 MULE TEAM R	CA FID UST	468	0.089	North
E24 / 13	JC FENNELL & SONS GA	27401 20 MULE TEAM R	LUST	468	0.089	North
D25 / 13	BORON SERVICE STATIO	27195 TWENTY MULE TE	UST	478	0.091	North
D26 / 13	DENNISS TEXACO	27195 20 MULE TEAM R	EDR Hist Auto	478	0.091	North
D27 / 13	BORON TEXACO	27195 TWENTY MULE TE	LUST, SWEEPS UST, ENF, HIST CORTESE	478	0.091	North
D28 / 13	ELIZABETH DYSON PROP	27201 TWENTY MULE TE	UST	479	0.091	North
F29 / 11	U S BORAX INC		SSTS, US MINES	529	0.100	NNE
F30 / 11	U.S. BORAX	14486 BORAX ROAD	LUST, CHMIRS, EMI	529	0.100	NNE
F31 / 11	U S BORAX INC	14486 BORAX RD	UST	529	0.100	NNE
F32 / 11	U S BORAX INC	14486 BORAX ROAD	CPS-SLIC, AST, CHMIRS	529	0.100	NNE
F33 / 11	BORON MINE FACILITY	14486 BORAX RD	SWF/LF, LUST, WMUDS/SWAT, CHMIRS, LDS, E...	529	0.100	NNE
F34 / 11	BORON MINE FACILITY	14486 BORAX RD.	CPS-SLIC, CHMIRS	529	0.100	NNE
F35 / 11	U S BORAX INC	14486 BORAX RD	AST	529	0.100	NNE
F36 / 11	U S BORAX AND CHEMIC	14486 BORAX RD	SWEEPS UST, CA FID UST, CHMIRS	529	0.100	NNE
G37 / 11	US BORAX, 6 NEW POND	AND PONDS 4-6 / BORA	Toxic Pits	547	0.104	NNE

MAPPED SITES SUMMARY

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
G38 / 11	US BORAX AND CHEMICA	HIGHWAY 58	ENVIROSTOR	611	0.116	NNE
39 / 12	BORON AUTO BODY	26049 20 MULETEAM RD	RCRA-SQG, CA FID UST, FINDS, ECHO	632	0.120	North
40 / 12	GREEN FIELD RECYCLIN	12025 GARDINER ST	SWRCY	806	0.153	NE
H41 / 12	FEDERAL PRISON CAMP	HWY 395	LUST	1012	0.192	North
H42 / 12	GEPHART SCHOOL	T11N R7W SECTION 19	LUST	1012	0.192	North
I43 / 13	DEBORD SEPTIC TANK S	27044 ANDERSON ST	HIST UST	1184	0.224	North
I44 / 13	DEBORD-PRIVATE RESID	27044 ANDERSON ST	UST	1184	0.224	North
J45 / 12	KERN COUNTY FIRE DEP	26965 COTE ST	LUST, SWEEPS UST, HIST UST, CA FID UST	1850	0.350	NNW
J46 / 12	KERN COUNTY FIRE STA	26965 COTE	LUST, HAZNET, HIST CORTESE	1850	0.350	NNW
K47 / 13	CIRCLE K STORE #749	12366 BORON AVE	RCRA-SQG, LUST, HIST UST, CA FID UST, FI...	2063	0.391	North
K48 / 13	CIRCLE K #749	12366 BORON AVE	LUST, SWEEPS UST	2063	0.391	North
L49 / 12	BORON HIGH SCHOOL	26653 PROSPECT	LUST, SWEEPS UST, CA FID UST	2365	0.448	NNE
L50 / 12	BORON MAINTENANCE FA	26653 PROSPECT AVENU	LUST	2365	0.448	NNE
51 / 4	U.S. BORAX MINE	NORTH ON BORAX RD, O	SEMS-ARCHIVE, CORRACTS, RCRA-LQG, FINDS,..	4026	0.762	North

Key Map - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1 1/2 3 Miles

SITE NAME:	Aratina Solar Farm	CLIENT:	Stantec
ADDRESS:	Kern County	CONTACT:	Dion Monge
CITY/STATE:	Boron CA	INQUIRY #:	5601598.2s
ZIP:	93516	DATE:	03/26/19 2:38 PM

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000	1	0	0	0	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500	1	0	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000	1	0	0	0	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500	1	0	0	0	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250	1	0	0	NR	NR	NR	1
RCRA-SQG	0.250		2	0	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500	1	0	0	0	NR	NR	1
US INST CONTROL	0.500	1	0	0	0	NR	NR	1
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000	1	1	0	0	0	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500	1	1	0	0	NR	NR	2
State and tribal leaking storage tank lists								
LUST	0.500		5	2	6	NR	NR	13

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		2	0	0	NR	NR	2
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250	1	5	1	NR	NR	NR	7
AST	0.250		2	0	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500	1	1	0	0	NR	NR	2
SWRCY	0.500		0	1	0	NR	NR	1
HAULERS	TP	1	NR	NR	NR	NR	NR	1
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000	1	0	0	0	0	NR	1
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		1	0	0	0	NR	1
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	3	0	NR	NR	NR	4
HIST UST	0.250	2	0	1	NR	NR	NR	3
CA FID UST	0.250	1	4	0	NR	NR	NR	5
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEED	0.500	1	0	0	0	NR	NR	1
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP	1	NR	NR	NR	NR	NR	1
MCS	TP	1	NR	NR	NR	NR	NR	1
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000	1	0	0	0	0	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000	1	0	0	0	0	NR	1
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP	1	NR	NR	NR	NR	NR	1
PRP	TP	1	NR	NR	NR	NR	NR	1
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP	1	NR	NR	NR	NR	NR	1
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	1	NR	NR	NR	NR	NR	1
US MINES	0.250		1	0	NR	NR	NR	1
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	3	NR	NR	NR	NR	NR	3
UXO	1.000	2	0	0	0	0	NR	2
DOCKET HWC	TP	1	NR	NR	NR	NR	NR	1
ECHO	TP	1	NR	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP	1	NR	NR	NR	NR	NR	1
Financial Assurance	TP	1	NR	NR	NR	NR	NR	1
HAZNET	TP	3	NR	NR	NR	NR	NR	3
ICE	TP	1	NR	NR	NR	NR	NR	1
HIST CORTESE	0.500		2	0	2	NR	NR	4
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP	1	NR	NR	NR	NR	NR	1
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP	2	NR	NR	NR	NR	NR	2
CERS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125	1	1	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP	1	NR	NR	NR	NR	NR	1
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		44	31	5	8	1	0	89

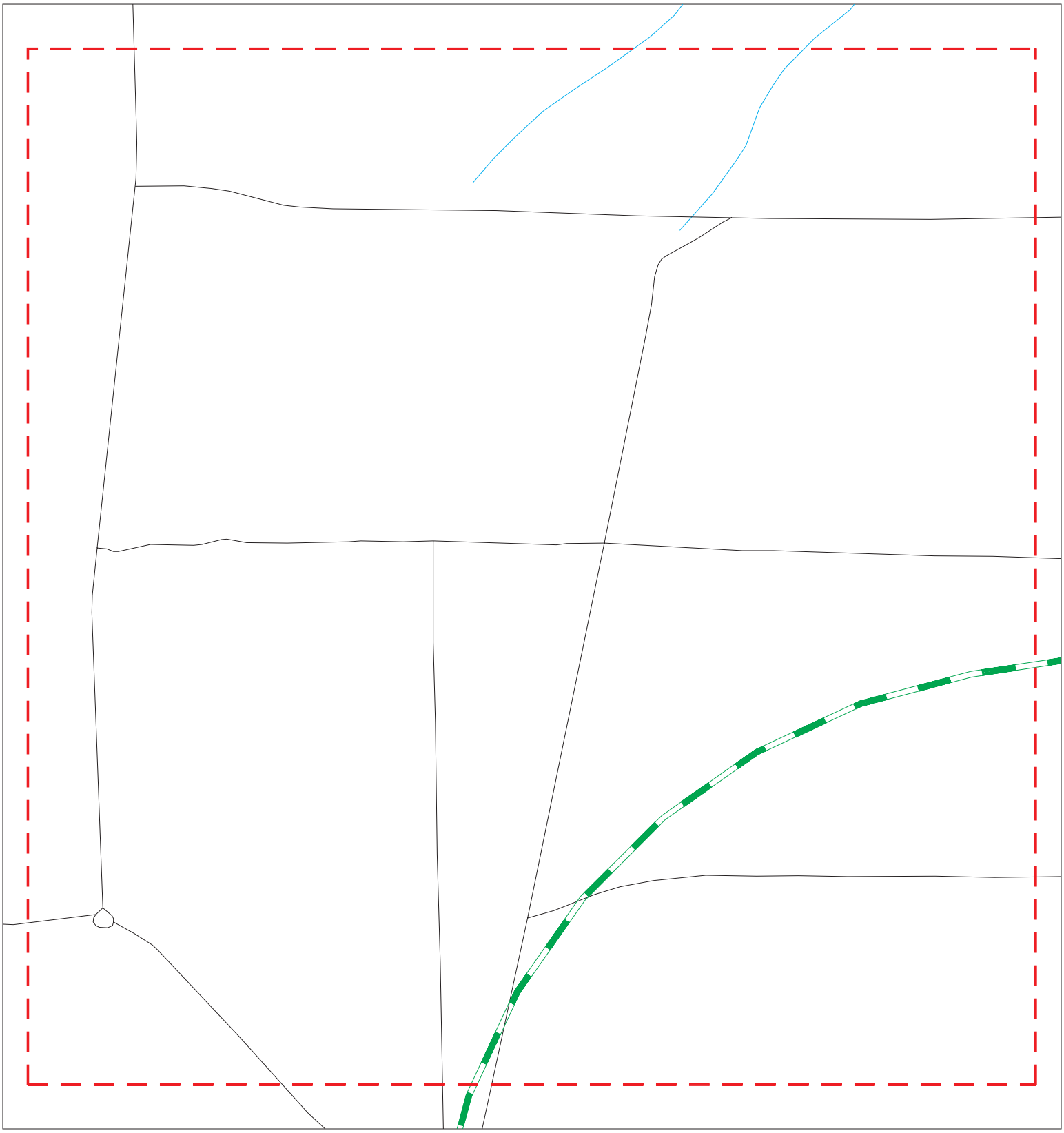
NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

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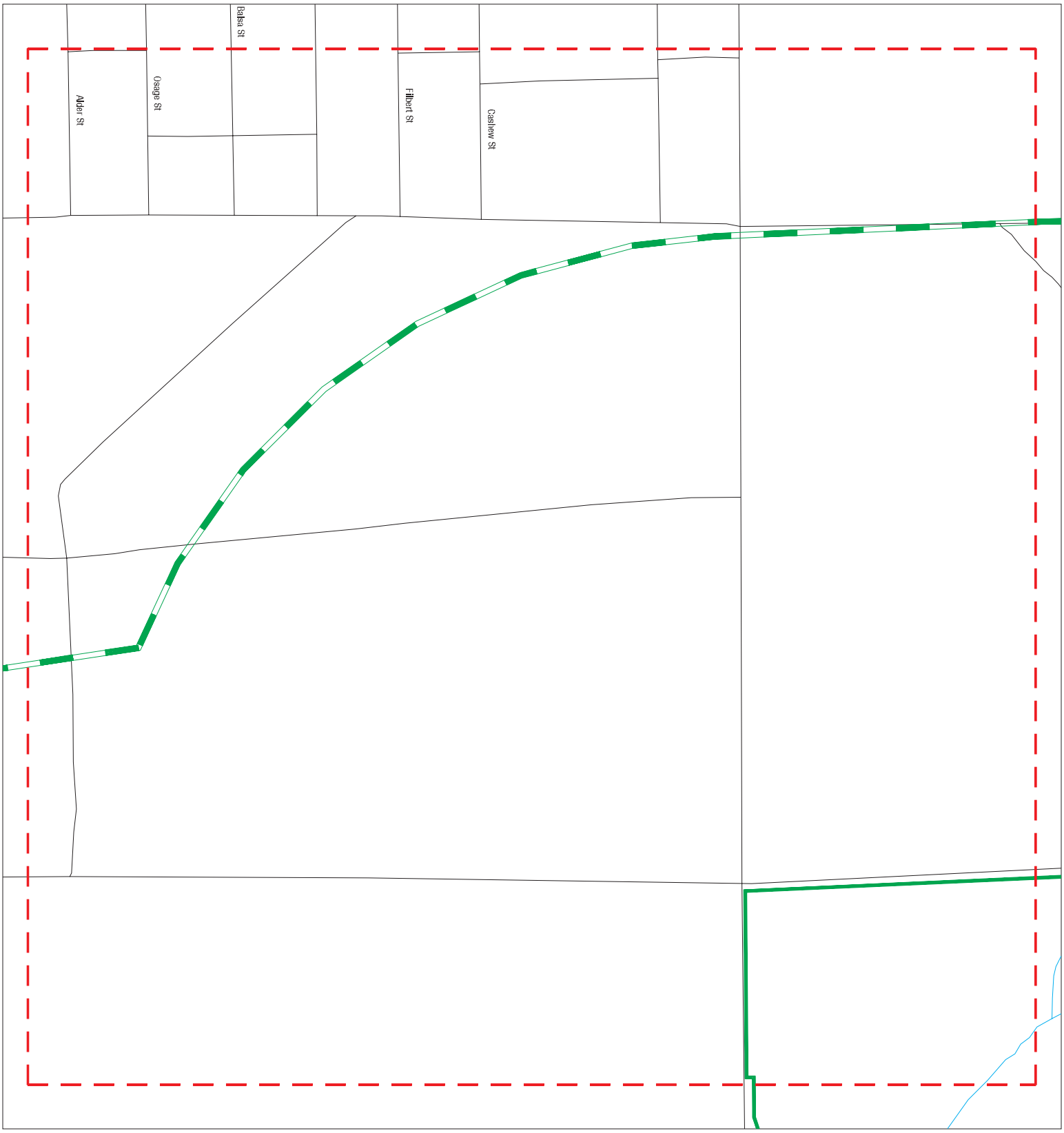
MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 2 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

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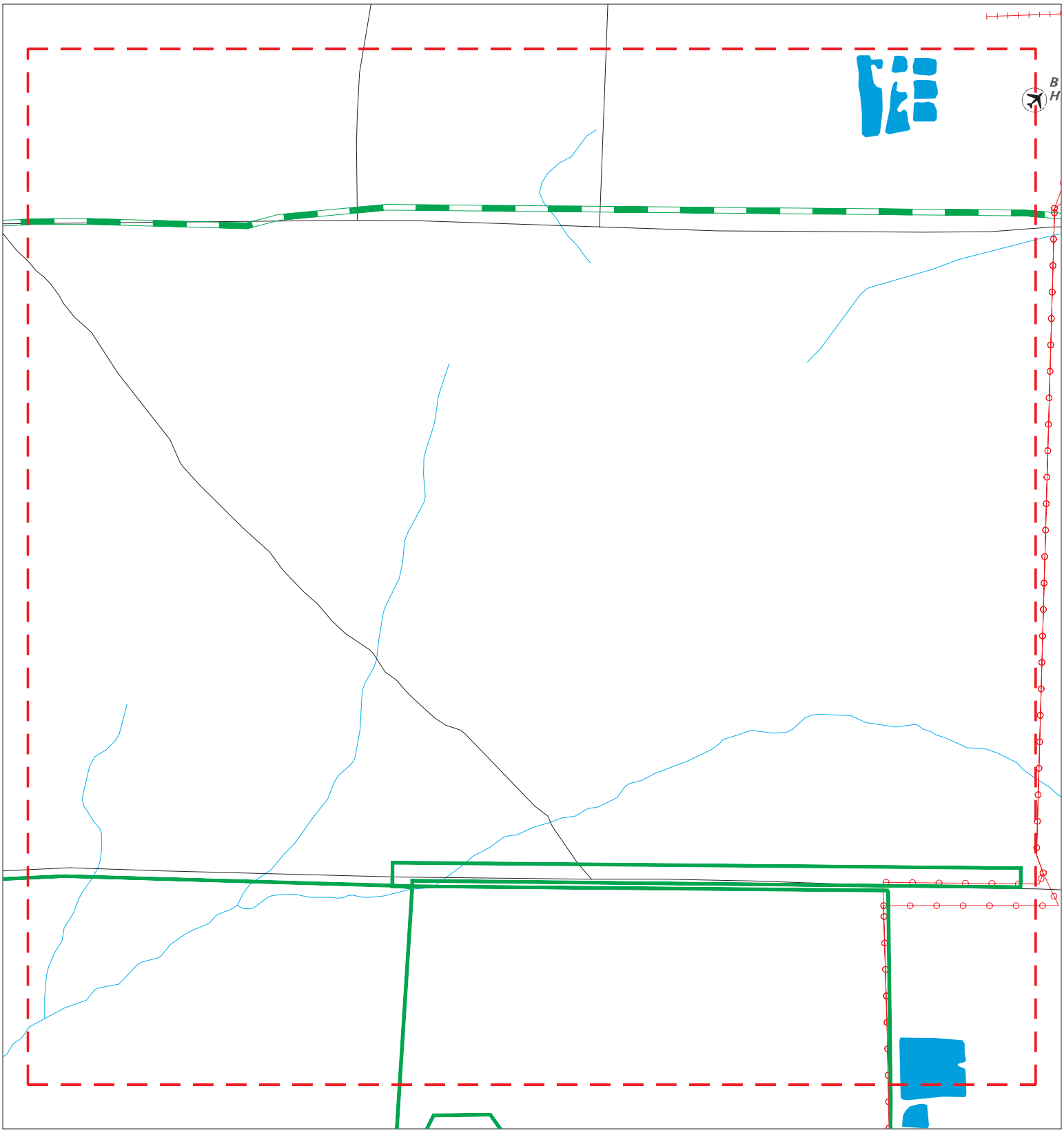
MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 3 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

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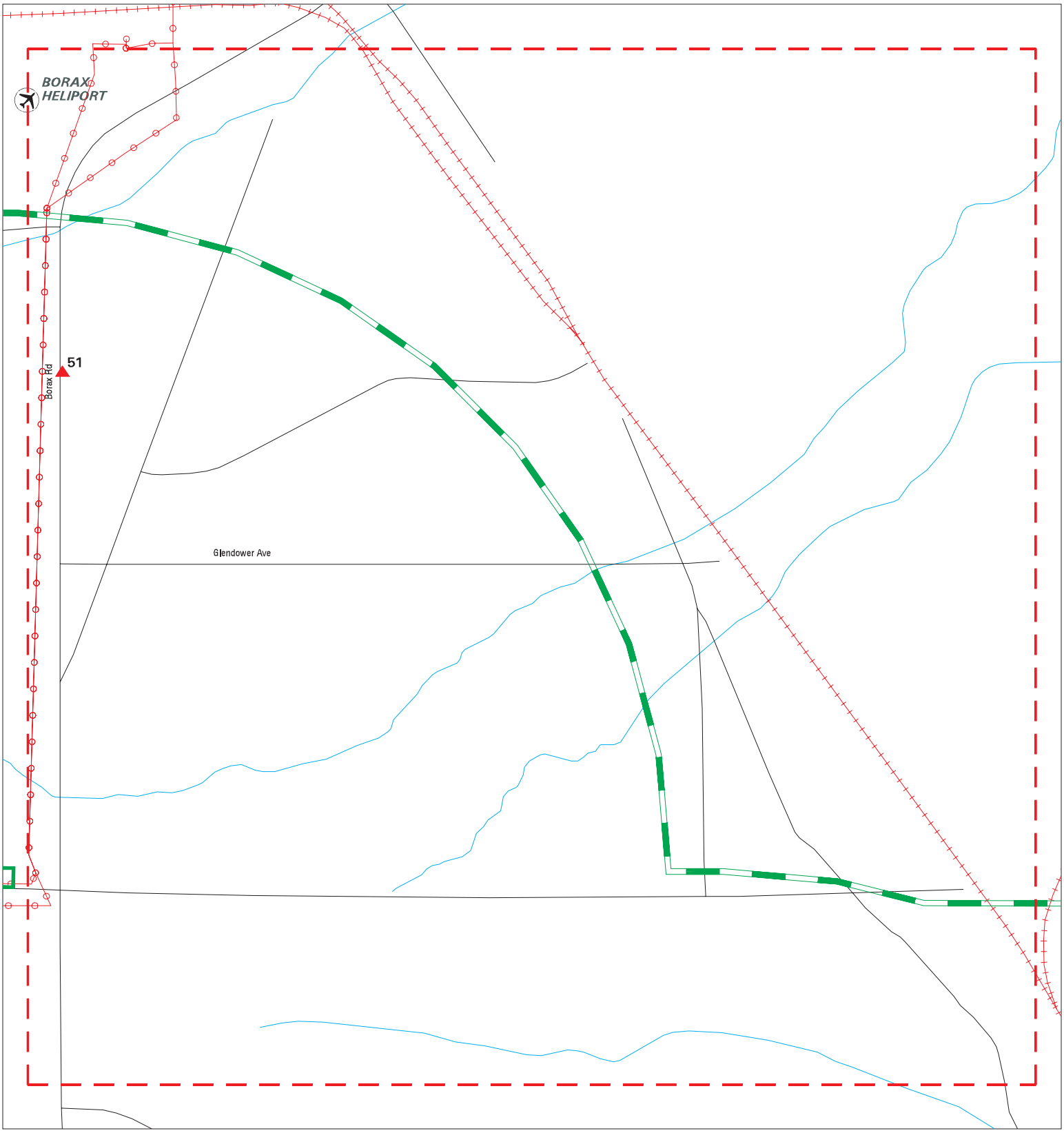
MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 4 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm ADDRESS: Kern County CITY/STATE: Boron CA ZIP: 93516	CLIENT: Stantec CONTACT: Dion Monge INQUIRY #: 5601598.2s DATE: 03/26/19

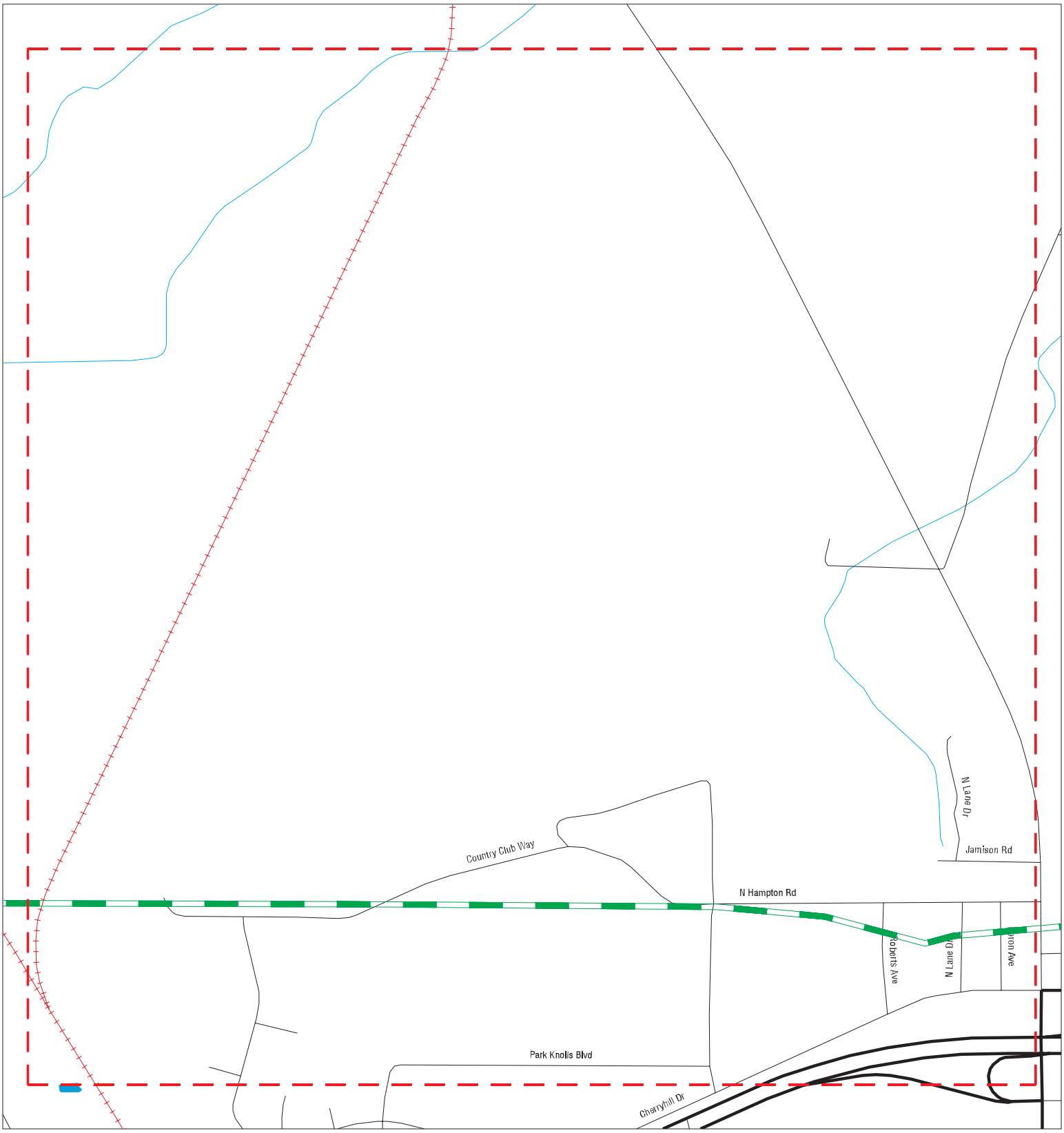
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MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
51 / 4	U.S. BORAX MINE	NORTH ON BORAX RD, O	SEMS-ARCHIVE, CORRACTS, RCRA-LQG, FINDS,	.4026 0.762 North

Focus Map - 5 - 5601598.2s



SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

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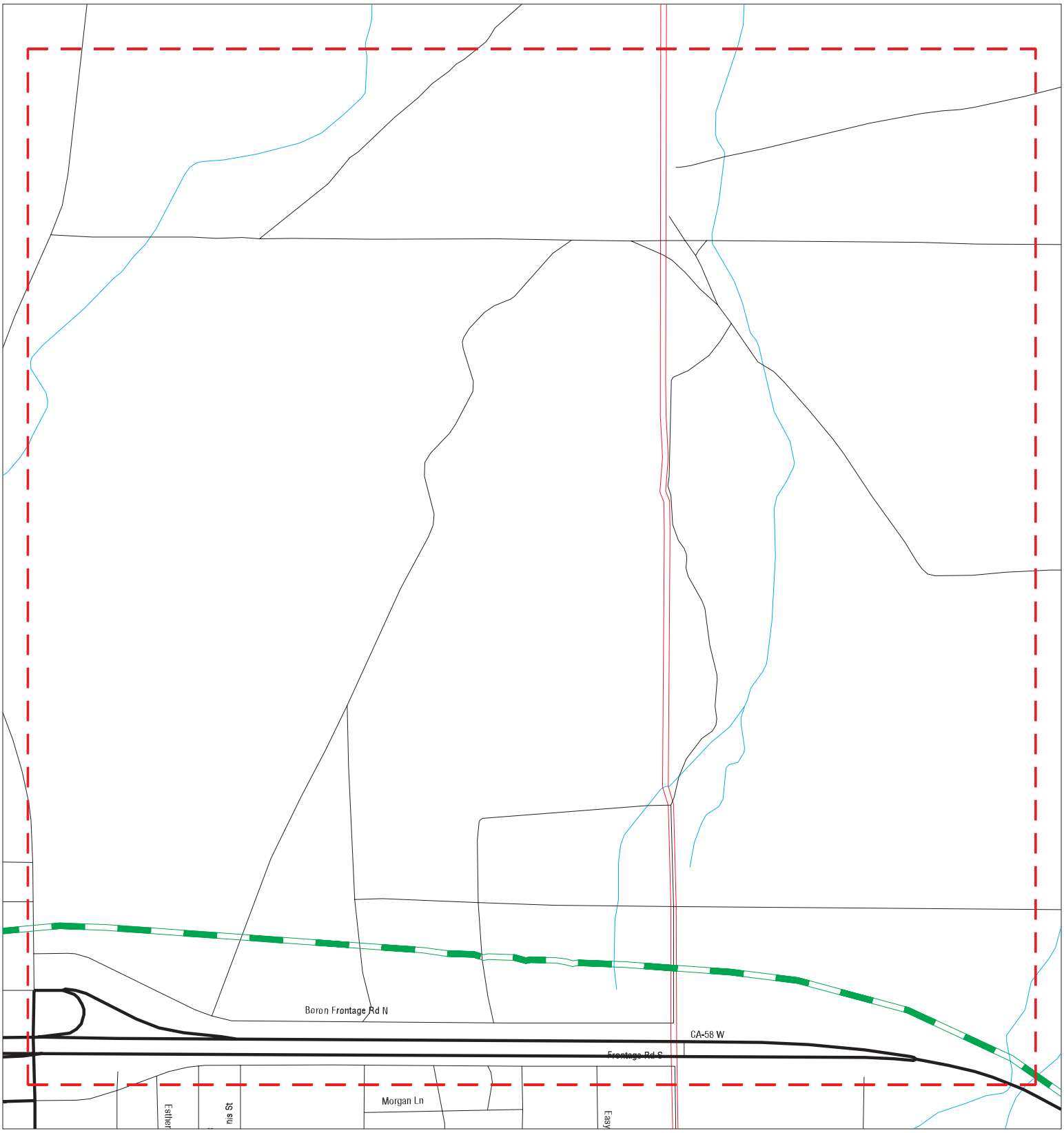
MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 6 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

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MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 7 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

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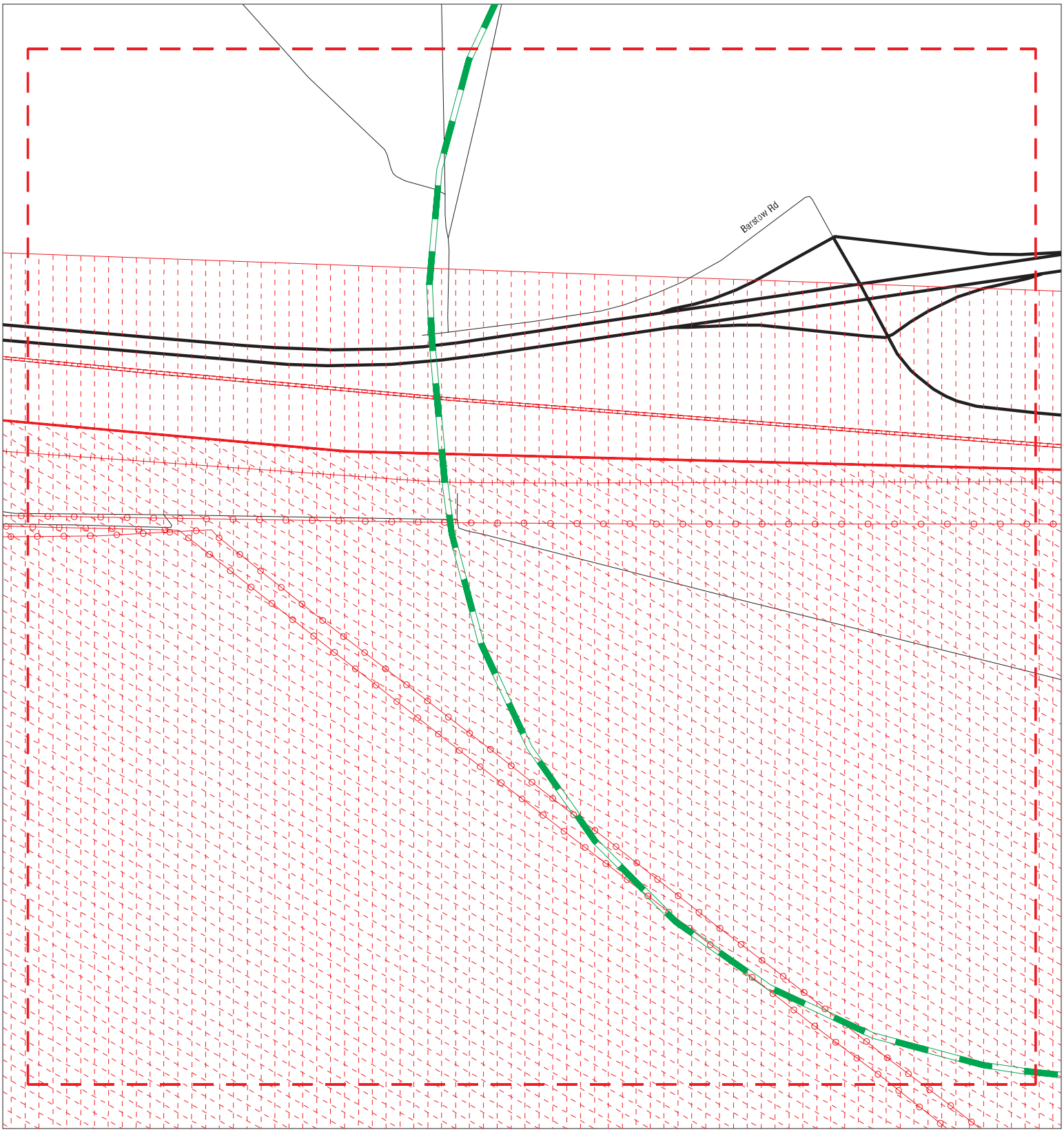
MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 8 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Aratina Solar Farm	CLIENT:	Stantec
ADDRESS:	Kern County	CONTACT:	Dion Monge
CITY/STATE:	Boron CA	INQUIRY #:	5601598.2s
ZIP:	93516	DATE:	03/26/19

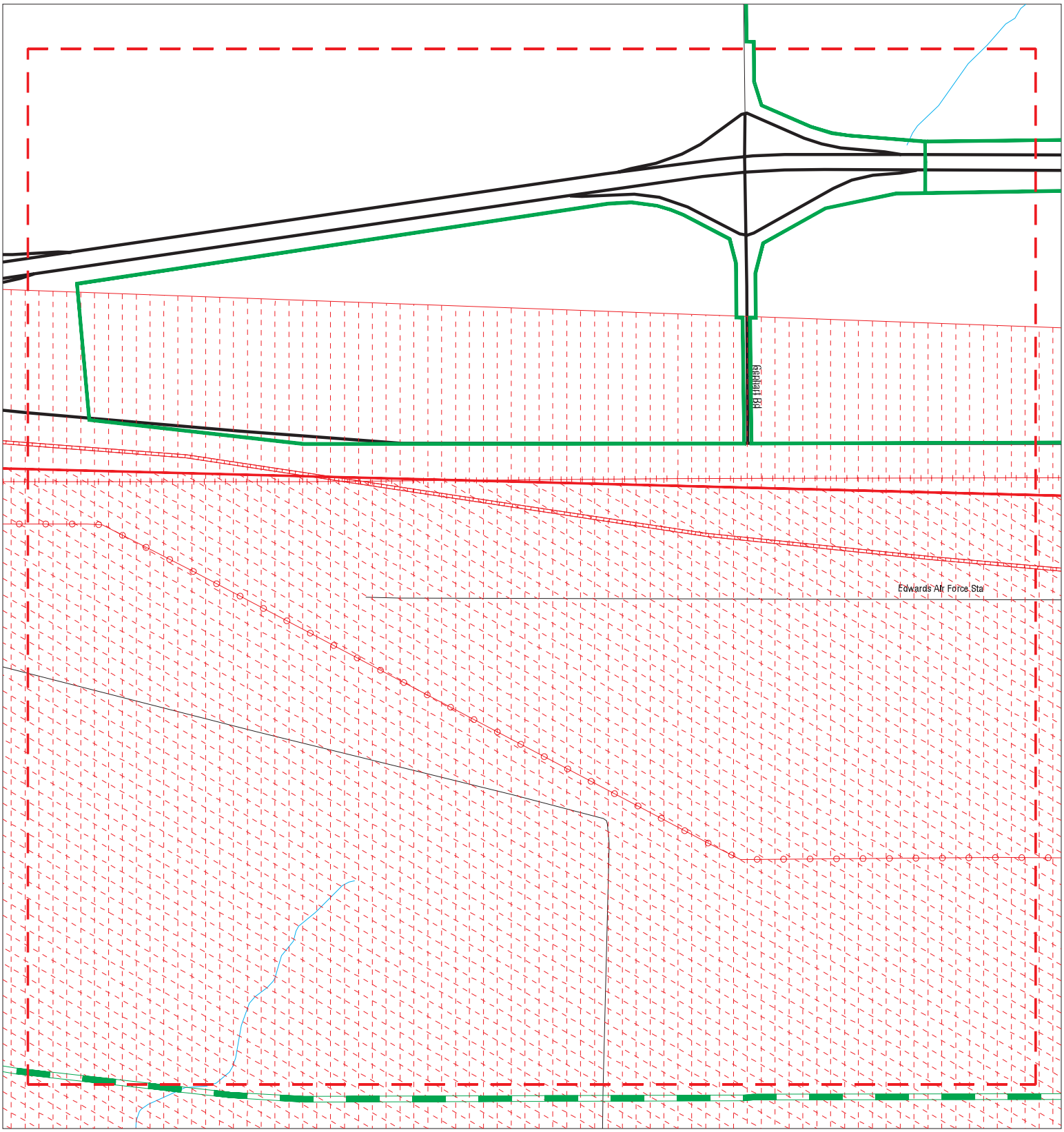
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MAPPED SITES SUMMARY - FOCUS MAP 8

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG,	TP
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP

Focus Map - 9 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

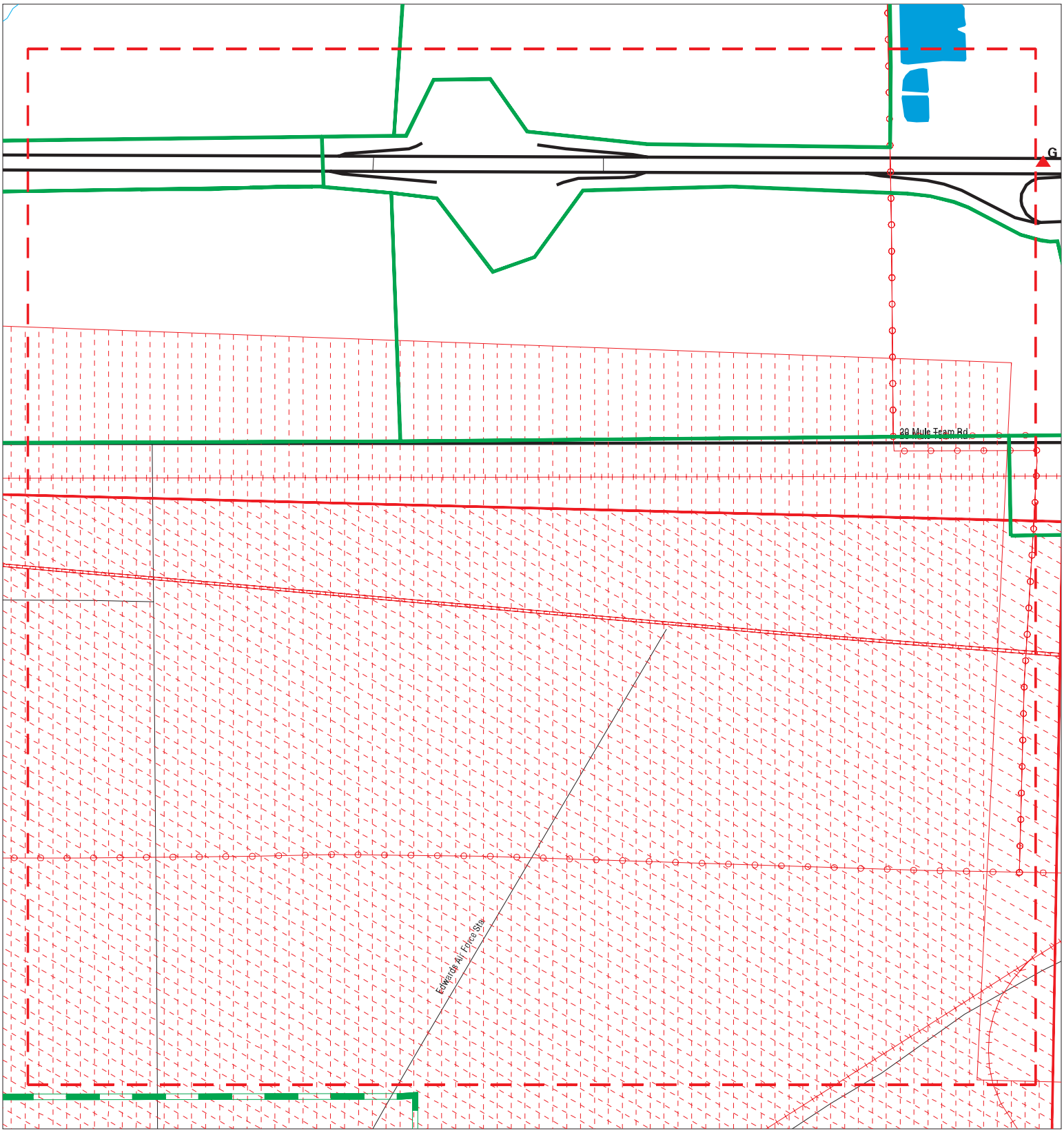
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MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG,	TP
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP

Focus Map - 10 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

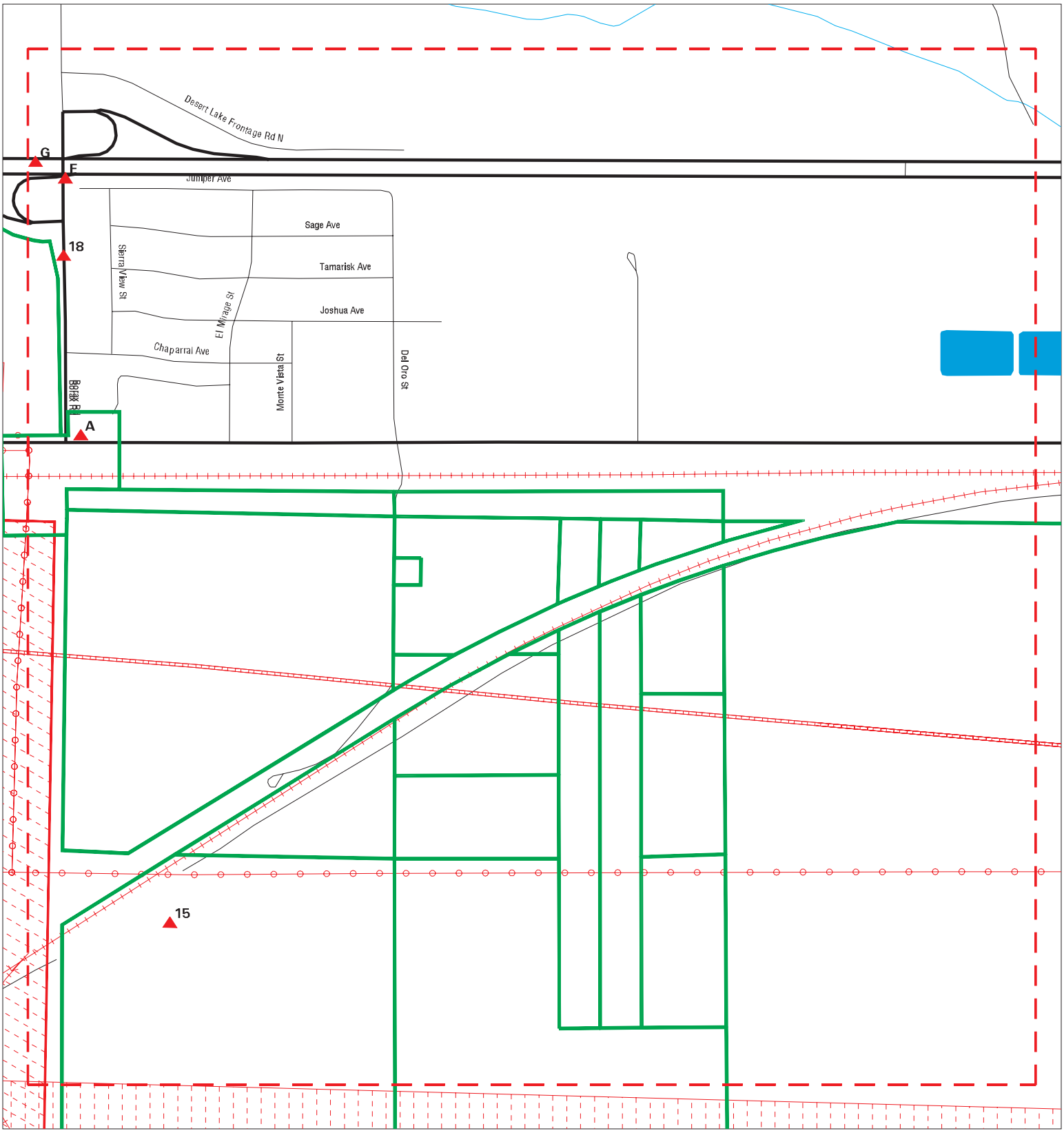
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MAPPED SITES SUMMARY - FOCUS MAP 10

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG,	TP
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP

Focus Map - 11 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

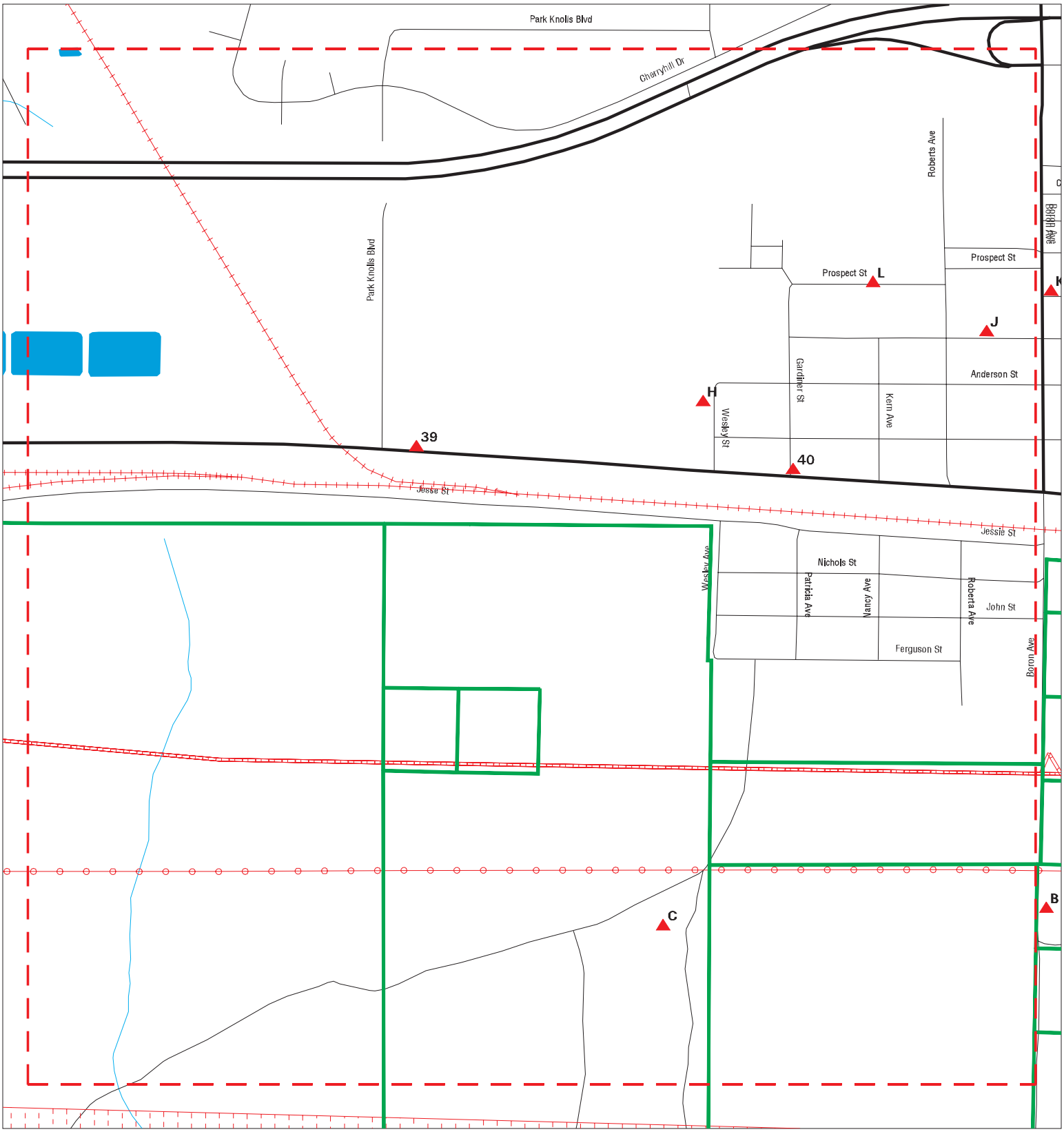
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MAPPED SITES SUMMARY - FOCUS MAP 11

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG...	TP		
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP		
A1 / 11	ROCKET SITE MINI MAR	24009 TWENTY MULE TE	UST	TP		
A2 / 11	GEORGE GIBSON	24009 TWENTY MULETEA	HAZNET	TP		
A3 / 11	ROCKET SITE MINI-MAR	24009 TWENTY MULE TE	EDR Hist Auto	TP		
A4 / 11	ROCKET SITE MINI MAR	24009 20 MULE TEAM R	HIST UST	TP		
A5 / 11	ROCKET SITE MINI MAR	24009 20 MULE TEAM R	SWEEPS UST, HIST UST, CA FID UST	TP		
A6 / 11	MIKE'S AUTOMOTIVE	24045 TWENTY MULE TE	HAZNET	TP		
15 / 11	EDWARDS AIR FORCE BA		MCS	TP		
18 / 11	MOJAVE COGENERATION	BORAX RD 3/4 MI N OF	RCRA-SQG	86	0.016	ENE
F29 / 11	U S BORAX INC		SSTS, US MINES	529	0.100	NNE
F30 / 11	U.S. BORAX	14486 BORAX ROAD	LUST, CHMIRS, EMI	529	0.100	NNE
F31 / 11	U S BORAX INC	14486 BORAX RD	UST	529	0.100	NNE
F32 / 11	U S BORAX INC	14486 BORAX ROAD	CPS-SLIC, AST, CHMIRS	529	0.100	NNE
F33 / 11	BORON MINE FACILITY	14486 BORAX RD	SWF/LF, LUST, WMUDS/SWAT, CHMIRS, LDS, E...	529	0.100	NNE
F34 / 11	BORON MINE FACILITY	14486 BORAX RD.	CPS-SLIC, CHMIRS	529	0.100	NNE
F35 / 11	U S BORAX INC	14486 BORAX RD	AST	529	0.100	NNE
F36 / 11	U S BORAX AND CHEMIC	14486 BORAX RD	SWEEPS UST, CA FID UST, CHMIRS	529	0.100	NNE
G37 / 11	US BORAX, 6 NEW POND	AND PONDS 4-6 / BORA	Toxic Pits	547	0.104	NNE
G38 / 11	US BORAX AND CHEMICA	HIGHWAY 58	ENVIROSTOR	611	0.116	NNE

Focus Map - 12 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

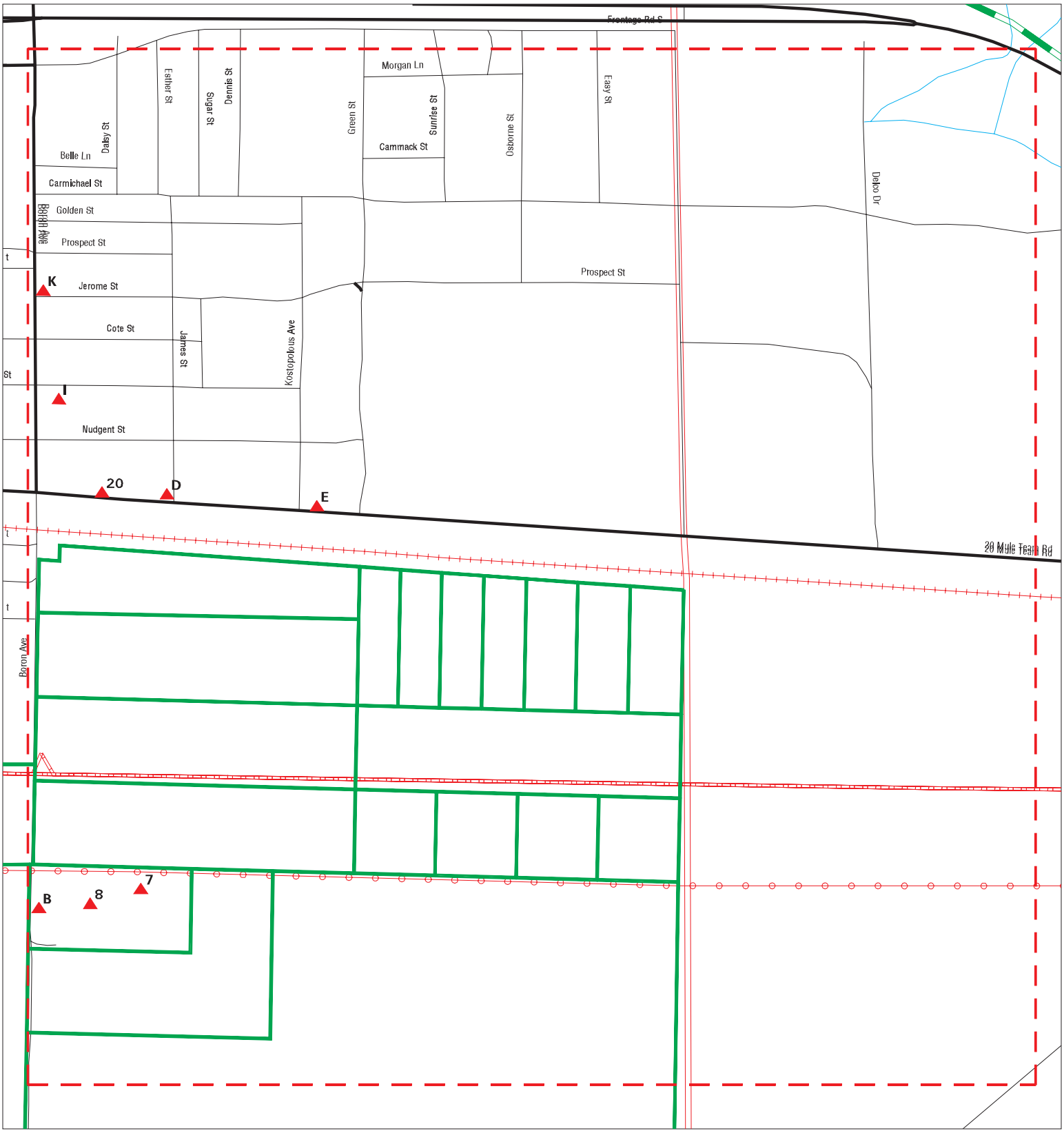
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MAPPED SITES SUMMARY - FOCUS MAP 12

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
C16 / 12	OFF BASE ADJACENT AR		UXO	TP
C17 / 12	OFF BASE ADJACENT AR		UXO	TP
39 / 12	BORON AUTO BODY	26049 20 MULETEAM RD	RCRA-SQG, CA FID UST, FINDS, ECHO	632 0.120 North
40 / 12	GREEN FIELD RECYCLIN	12025 GARDINER ST	SWRCY	806 0.153 NE
H41 / 12	FEDERAL PRISON CAMP	HWY 395	LUST	1012 0.192 North
H42 / 12	GEPHART SCHOOL	T11N R7W SECTION 19	LUST	1012 0.192 North
J45 / 12	KERN COUNTY FIRE DEP	26965 COTE ST	LUST, SWEEPS UST, HIST UST, CA FID UST	1850 0.350 NNW
J46 / 12	KERN COUNTY FIRE STA	26965 COTE	LUST, HAZNET, HIST CORTESE	1850 0.350 NNW
L49 / 12	BORON HIGH SCHOOL	26653 PROSPECT	LUST, SWEEPS UST, CA FID UST	2365 0.448 NNE
L50 / 12	BORON MAINTENANCE FA	26653 PROSPECT AVENU	LUST	2365 0.448 NNE

Focus Map - 13 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

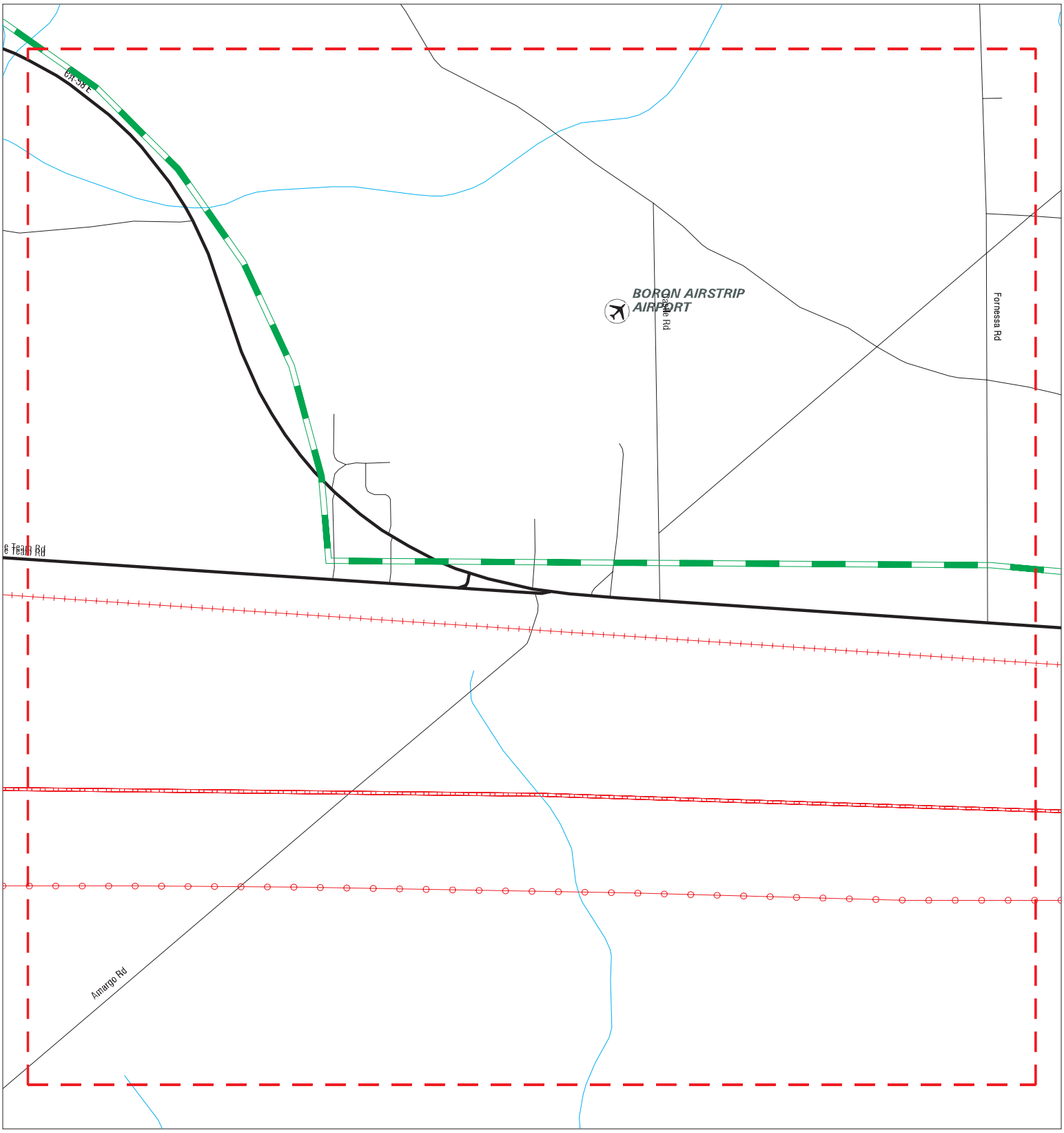
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MAPPED SITES SUMMARY - FOCUS MAP 13

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
7 / 13	TLRR KRAMER-HOLGATE	NORTH OF HWY 58 AT B	CIWQS	TP		
8 / 13	BORON CLASS III LAND	5 MI SO OF BORON	WMUDS/SWAT, LDS, ENF, WDS, CIWQS	TP		
B9 / 13	KERN COUNTY PUBLIC W	11400 BORON AVENUE	SWF/LF, HAULERS, Financial Assurance, HA...	TP		
B10 / 13	KCWMD - BORON LANDFI	11400 BORON AVE	FINDS	TP		
B11 / 13	BORON SANITARY LANDF	11400 BORON AVENUE	ECHO	TP		
B12 / 13	BORON SANITARY LANDF	11400 BORON AVENUE	RGA LF	TP		
B13 / 13	BORON SANITARY LANDF	11400 BORON AVENUE	FINDS	TP		
B14 / 13	BORON SLF	11400 BORON AVENUE	FINDS	TP		
D19 / 13	KNOTTS TEXACO SERVIC	27195 20 M T RD	CA FID UST	412	0.078	North
20 / 13	JIMS MOBIL SERV	27127 TWENTY MULE TE	UST	455	0.086	North
E21 / 13	JC FENNEL & SONS	27401 20 MULE TEAM	LUST, SWEEPS UST, HIST CORTESE	468	0.089	North
E22 / 13	FENNELL & SON'S GARA	27401 20 MULE TEAM R	UST	468	0.089	North
E23 / 13	J C FENNELL & SONS	27401 20 MULE TEAM R	CA FID UST	468	0.089	North
E24 / 13	JC FENNELL & SONS GA	27401 20 MULE TEAM R	LUST	468	0.089	North
D25 / 13	BORON SERVICE STATIO	27195 TWENTY MULE TE	UST	478	0.091	North
D26 / 13	DENNISS TEXACO	27195 20 MULE TEAM R	EDR Hist Auto	478	0.091	North
D27 / 13	BORON TEXACO	27195 TWENTY MULE TE	LUST, SWEEPS UST, ENF, HIST CORTESE	478	0.091	North
D28 / 13	ELIZABETH DYSON PROP	27201 TWENTY MULE TE	UST	479	0.091	North
I43 / 13	DEBORD SEPTIC TANK S	27044 ANDERSON ST	HIST UST	1184	0.224	North
I44 / 13	DEBORD-PRIVATE RESID	27044 ANDERSON ST	UST	1184	0.224	North
K47 / 13	CIRCLE K STORE #749	12366 BORON AVE	RCRA-SQG, LUST, HIST UST, CA FID UST, FI...	2063	0.391	North
K48 / 13	CIRCLE K #749	12366 BORON AVE	LUST, SWEEPS UST	2063	0.391	North

Focus Map - 14 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm ADDRESS: Kern County CITY/STATE: Boron CA ZIP: 93516	CLIENT: Stantec CONTACT: Dion Monge INQUIRY #: 5601598.2s DATE: 03/26/19

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MAPPED SITES SUMMARY - FOCUS MAP 14

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 15 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

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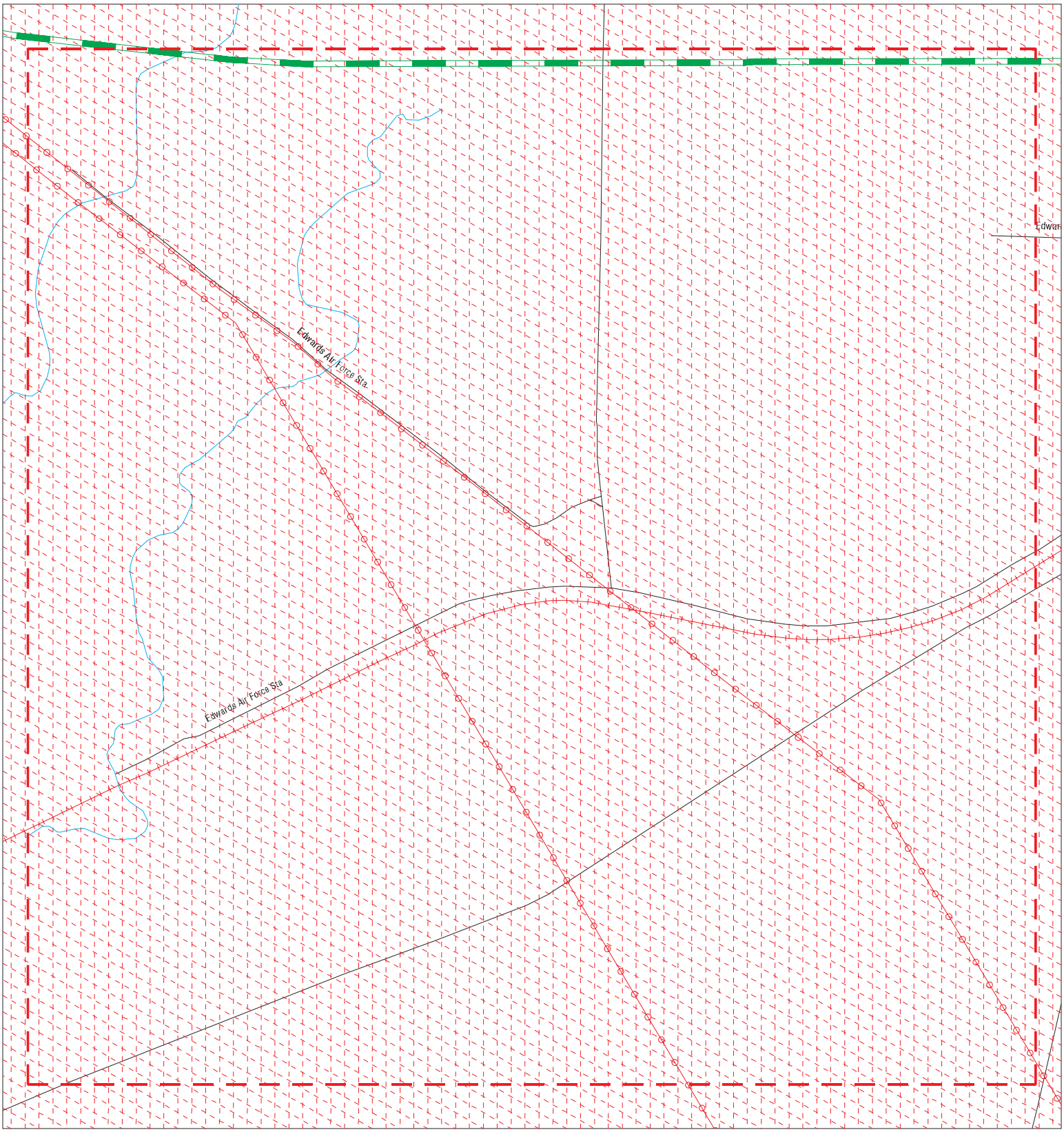
MAPPED SITES SUMMARY - FOCUS MAP 15

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 16 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

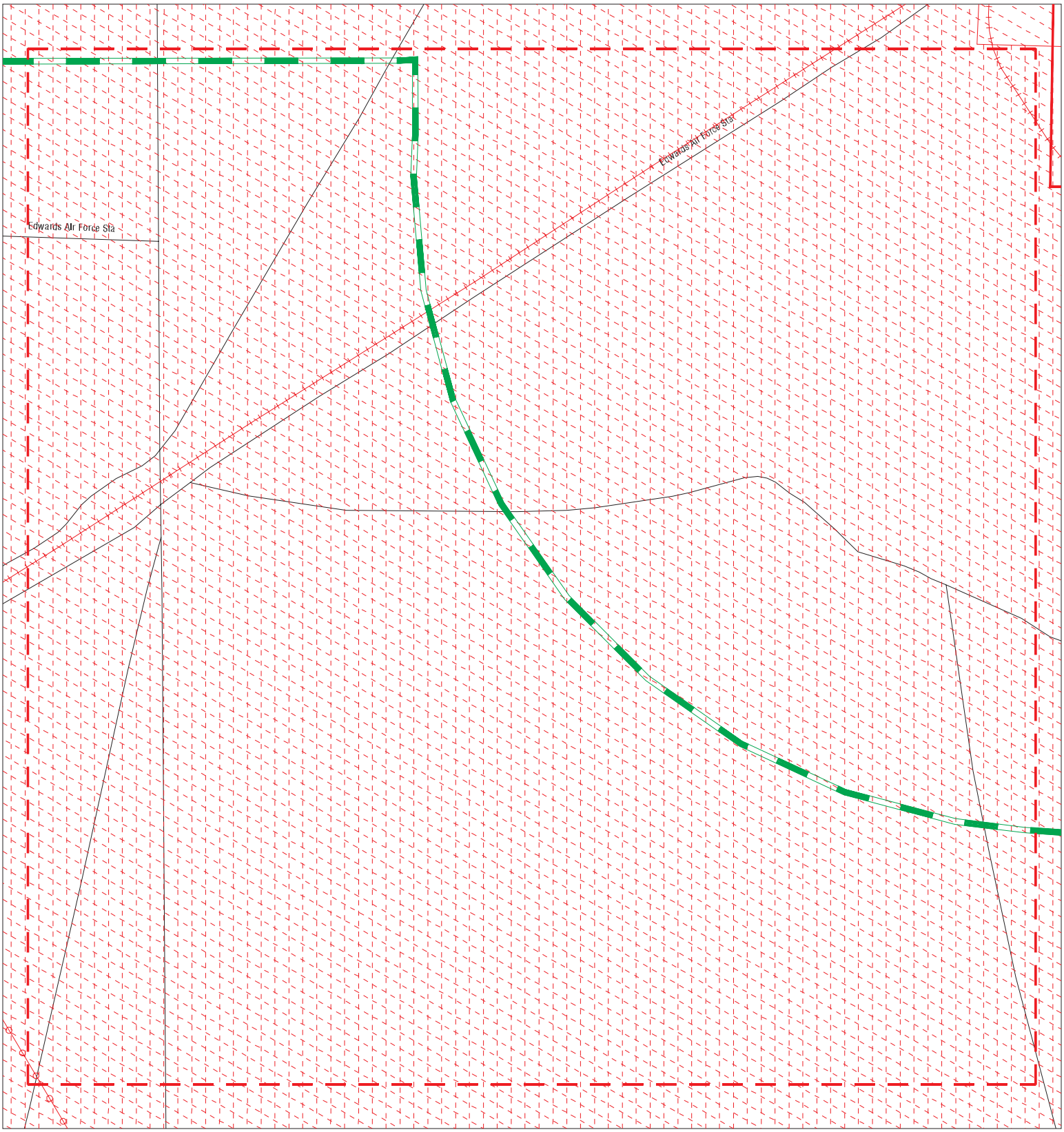
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MAPPED SITES SUMMARY - FOCUS MAP 16

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG,	TP
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP

Focus Map - 17 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

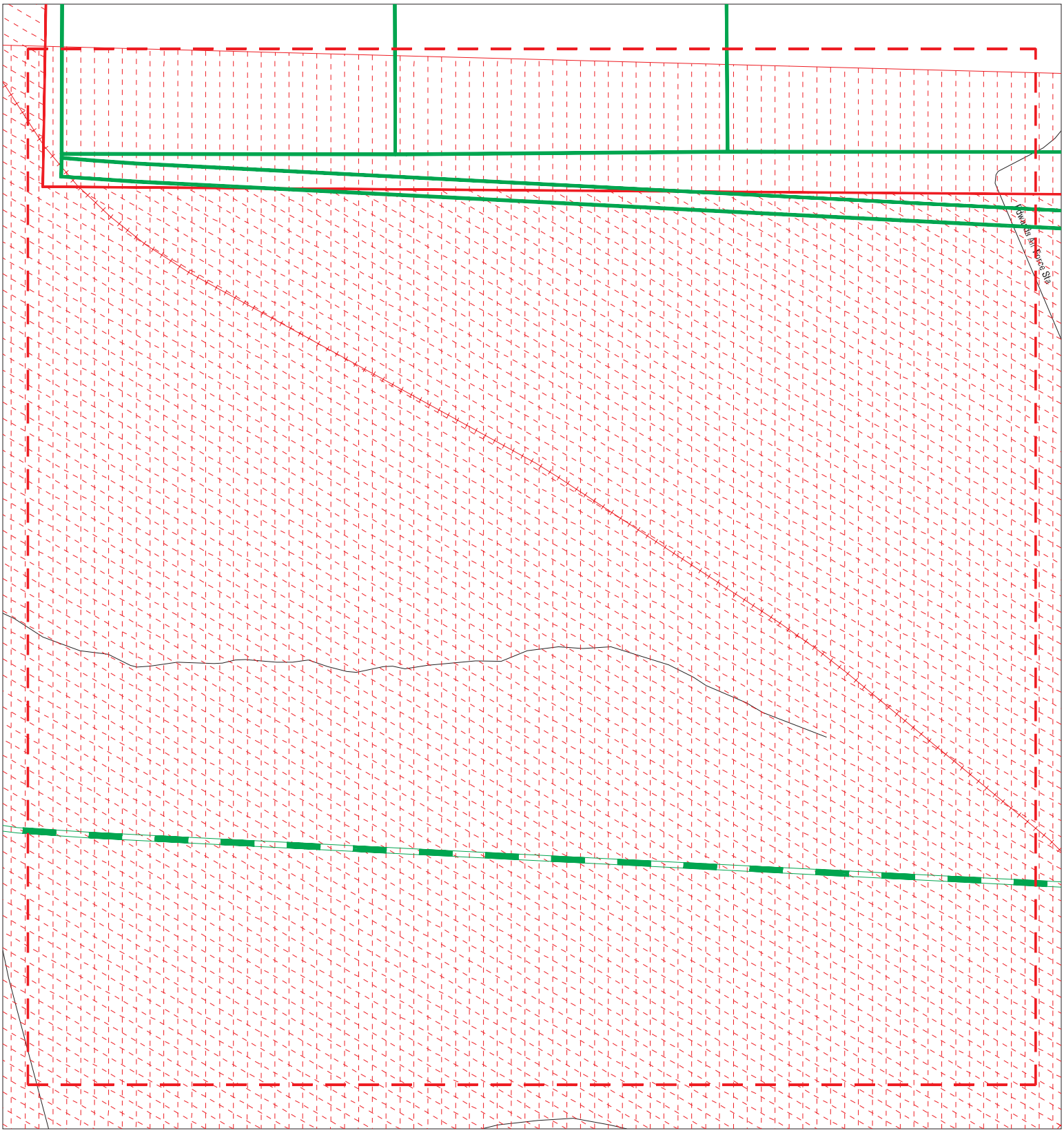
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MAPPED SITES SUMMARY - FOCUS MAP 17

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG,	TP
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP

Focus Map - 18 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

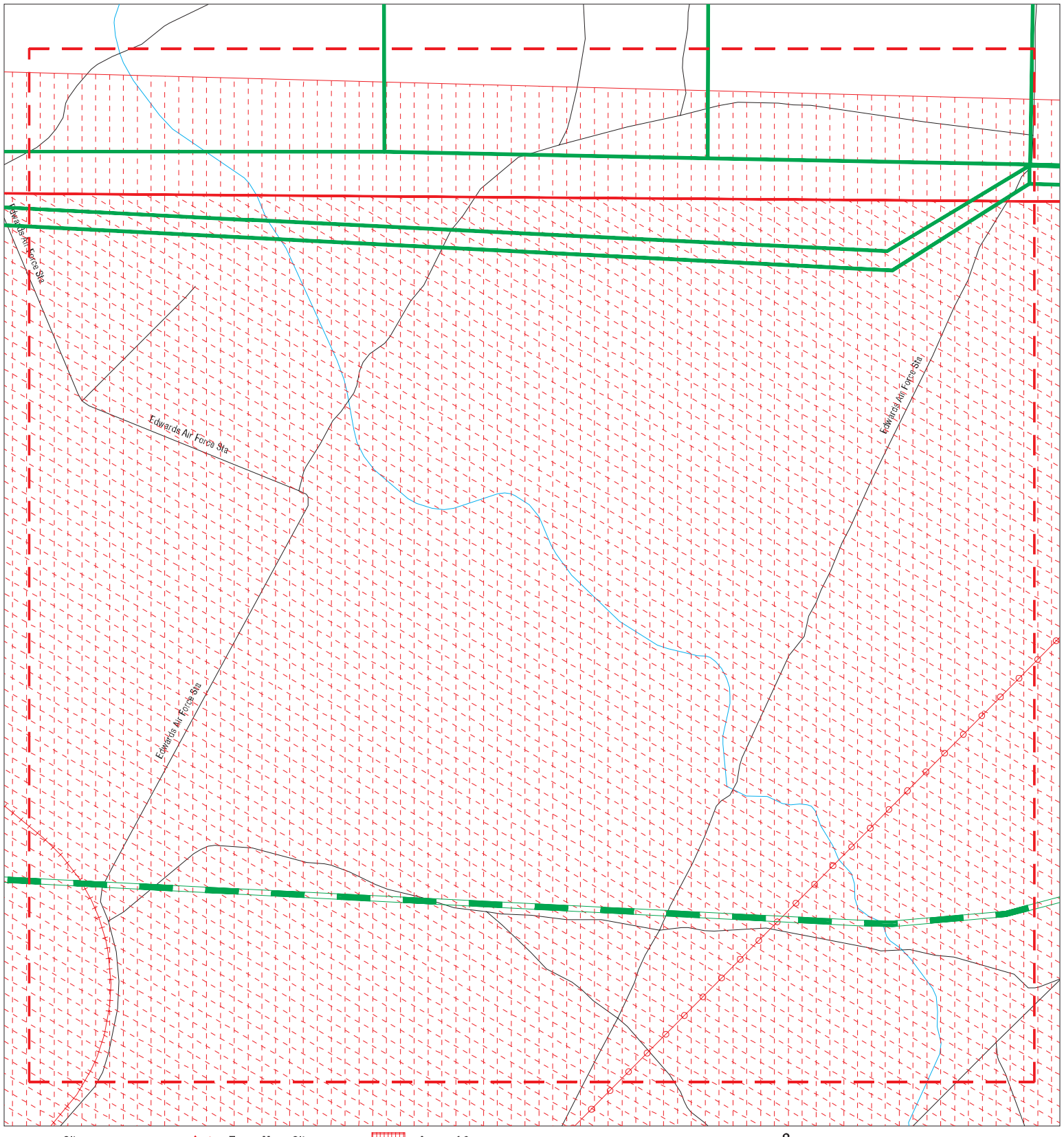
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MAPPED SITES SUMMARY - FOCUS MAP 18

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG,	TP
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP

Focus Map - 19 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

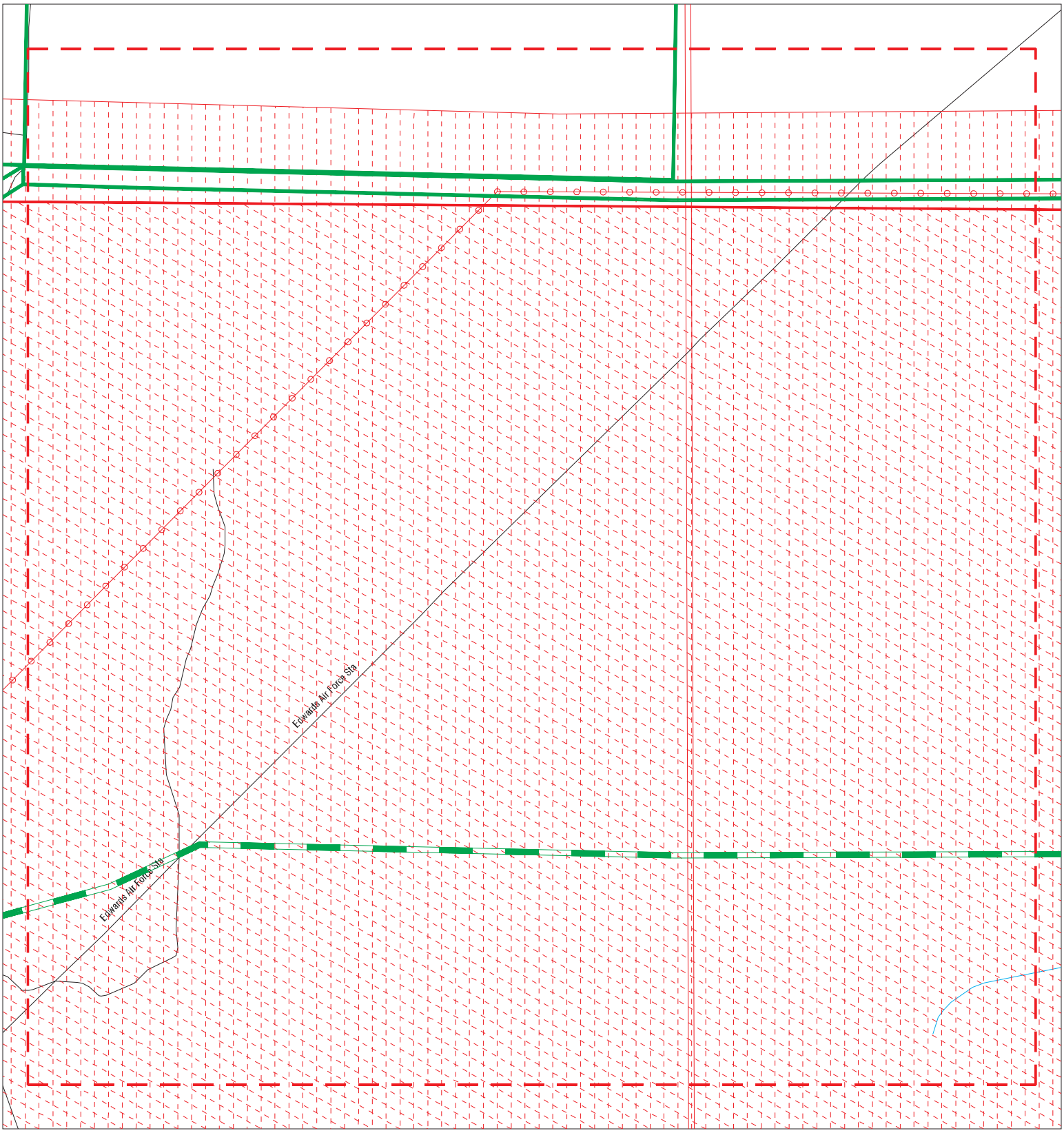
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MAPPED SITES SUMMARY - FOCUS MAP 19

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG,	TP
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP

Focus Map - 20 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	Aratina Solar Farm	CLIENT:	Stantec
ADDRESS:	Kern County	CONTACT:	Dion Monge
CITY/STATE:	Boron CA	INQUIRY #:	5601598.2s
ZIP:	93516	DATE:	03/26/19

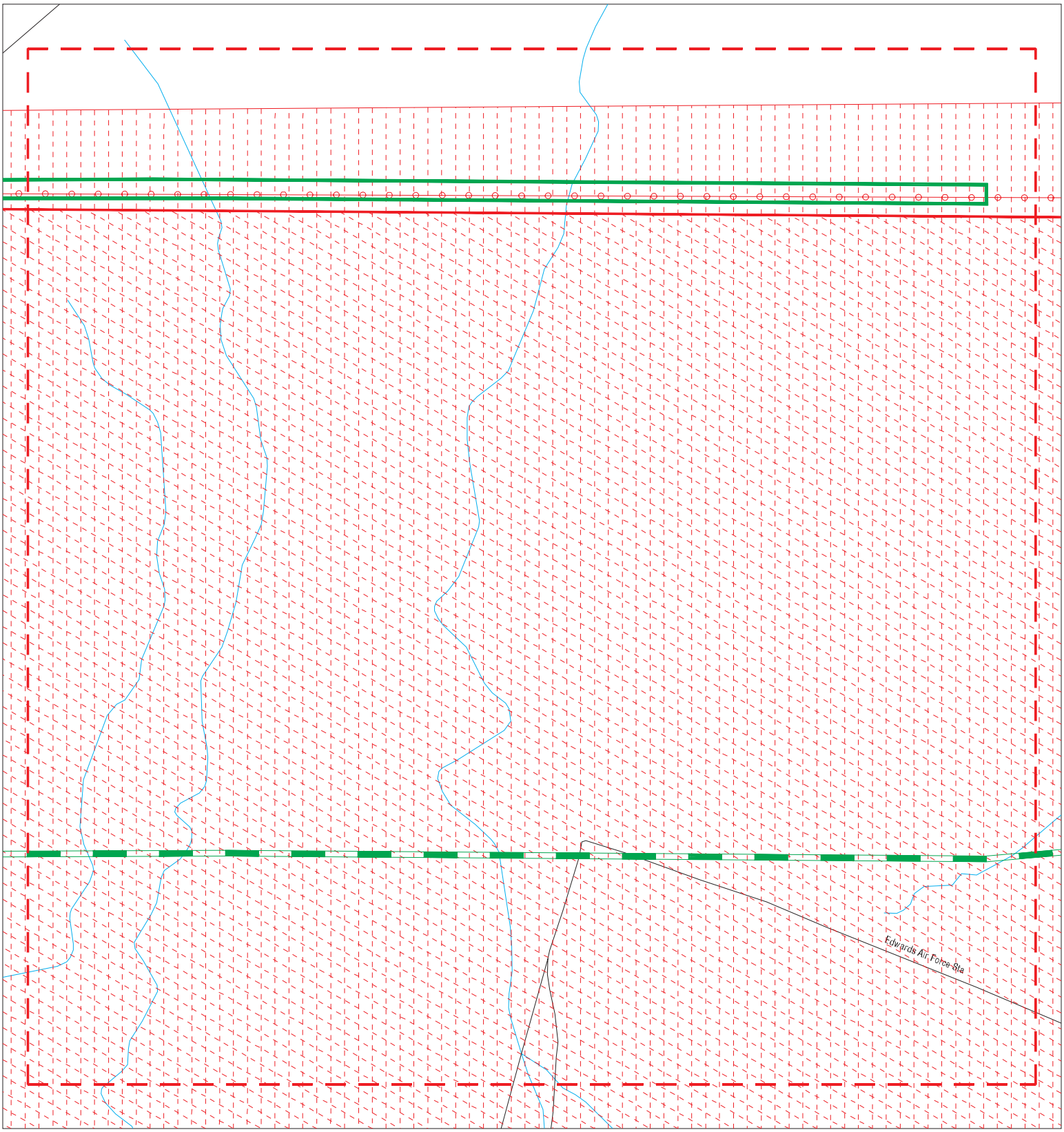
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MAPPED SITES SUMMARY - FOCUS MAP 20

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG,	TP
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP

Focus Map - 21 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

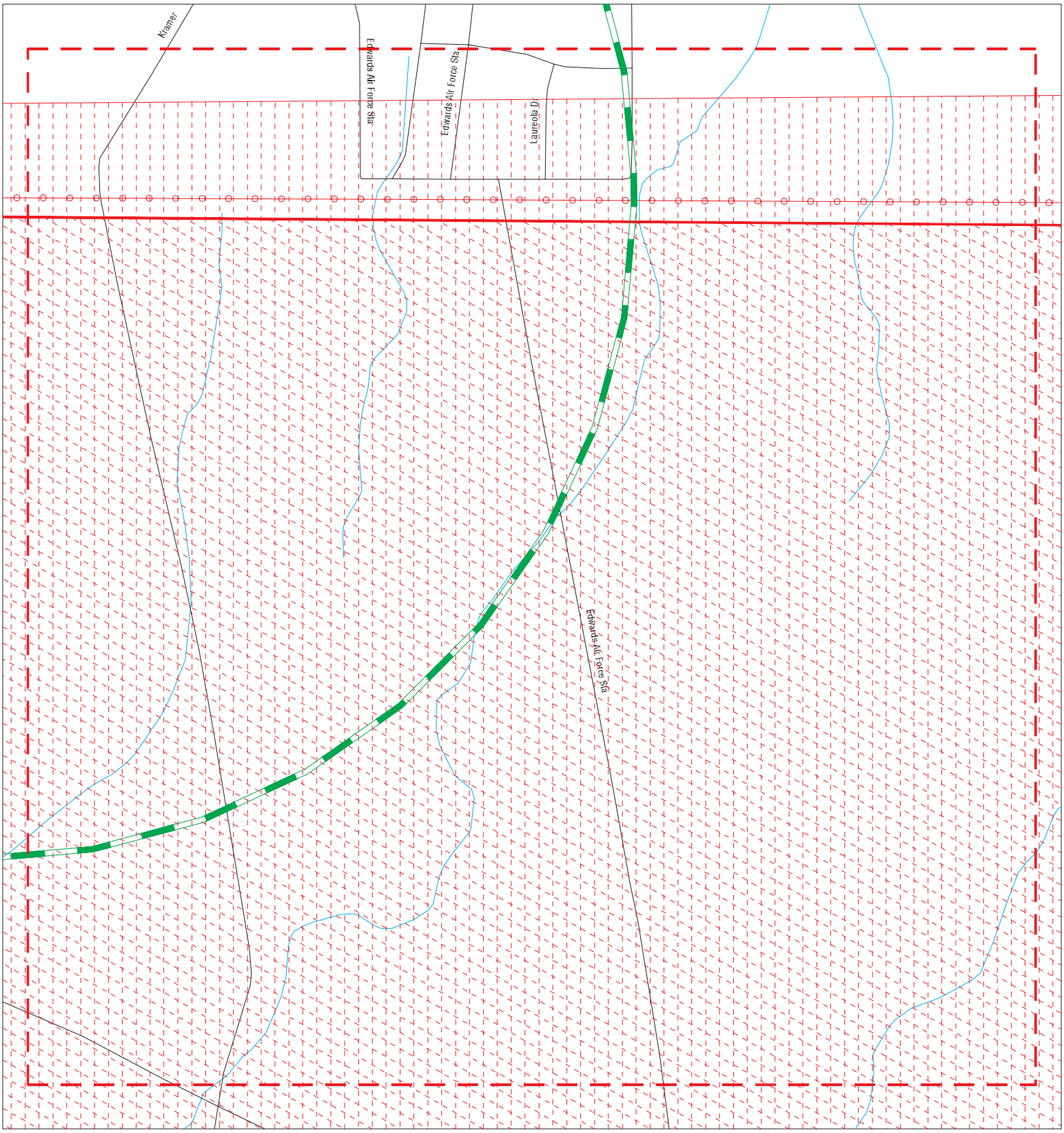
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MAPPED SITES SUMMARY - FOCUS MAP 21

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG,	TP
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP

Focus Map - 22 - 5601598.2s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
Pipe Line
National Priority List Sites
Areas of Concern
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: Aratina Solar Farm	CLIENT: Stantec
ADDRESS: Kern County	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 5601598.2s
ZIP: 93516	DATE: 03/26/19

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MAPPED SITES SUMMARY - FOCUS MAP 22

Target Property:
KERN COUNTY
BORON, CA 93516

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG,	TP
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP

NPL **EDWARDS AIR FORCE BASE** **NPL 1000155217**
Region **5 EAST POPSON AVE BLDG 2650** **SEMS CA1570024504**
Target **EDWARDS AFB, CA 93524** **CORRACTS**
Property **RCRA-TSDF**
RCRA-LQG
US ENG CONTROLS
US INST CONTROL
ENVIROSTOR
Focus Map: **HIST Cal-Sites**
8,9,10,11,16,17,18,19,20,21,22 **DEED**
ROD
RAATS
PRP
ICIS
US AIRS
DOCKET HWC
ICE

NPL:

EPA ID:	CA1570024504
Cerclis ID:	902725
EPA Region:	9
Federal:	Y
Final Date:	1990-08-30 00:00:00
Site Score:	33.619999999999997
Latitude:	34.949438999999998
Longitude:	-117.8857

Category Details:

NPL Status:	Currently on the Final NPL
Category Description:	Depth To Aquifer-> 100 Feet
Category Value:	110

NPL Status:	Currently on the Final NPL
Category Description:	Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value:	10

Site Details:

Site Name:	EDWARDS AIR FORCE BASE
Site Status:	Final
Site Zip:	93524
Site City:	EDWARDS AFB
Site State:	CA
Federal Site:	Yes
Site County:	KERN
EPA Region:	09
Date Proposed:	07/14/89
Date Deleted:	Not reported
Date Finalized:	08/30/90

Substance Details:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
Substance:	Not reported
CAS #:	Not reported
Pathway:	Not reported
Scoring:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

NPL Status: Currently on the Final NPL
Substance ID: A020
Substance: CHROMIUM AND COMPOUNDS
CAS #: Not reported
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: D004
Substance: ARSENIC
CAS #: 7440-38-2
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: U036
Substance: CHLORDANE
CAS #: 57-74-9
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: U061
Substance: DDT
CAS #: 50-29-3
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: U077
Substance: DICHLOROETHANE, 1,2-
CAS #: 107-06-2
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U079
Substance: TRANS-DICHLOROETHYLENE, 1,2-
CAS #: 156-60-5
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U210
Substance: TETRACHLOROETHENE
CAS #: 127-18-4
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Summary Details:

Conditions at proposal July 14, 1989): Edwards Air Force Base EAFB) is in Kern, Los Angeles, and San Bernardino Counties, California, occupying approximately 800 square miles in the western portion of the Mojave Desert. The base has been in operation since 1933. Its primary mission is to conduct research and development on new aircraft. EAFB is participating in the Installation Restoration Program IRP), established in 1978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from ha ardous materials. Under IRP, the Air Force has identified 21 waste areas at the facility. The Main/South Base area, at the western edge of Rogers Dry Lake, is the primary area for maintenance and refueling of aircraft. On several occasions, large amounts of fuel have been spilled in the area, and poor disposal practices have released organic solvents to the ground. Also in the area are an abandoned sanitary landfill containing pesticides and heavy metals, an area where electroplating wastes were dumped, and the industrial waste pond, which contains sediments rich in heavy metals. Trichloroethylene, trans-1,2-dichloroethylene, 1,2-dichloroethane, tetrachloroethylene, and methylene chloride are present in ground water underlying the Main/South Base area, according to a 1987 IRP report. EAFB s 13,800 employees obtain drinking water from wells within 3 miles of the Main/South Base area. There is no perennial surface water at EAFB. The Air Force has completed an initial assessment of the base and is now conducting a remedial investigation/feasibility study to determine the type and extent of contamination and identify alternatives for remedial action. Status August 30, 1990): The Air Force is reviewing previous studies to determine any additional data needed to fully characteri e known waste areas. EPA, the State, and the Air Force arenegotiating an Interagency Agreement under CERCLA Section 120 covering response activities at the base.

Site Status Details:

NPL Status:	Final
Proposed Date:	07/14/1989
Final Date:	08/30/1990
Deleted Date:	Not reported

Narratives Details:

NPL Name:	EDWARDS AIR FORCE BASE
City:	EDWARDS AFB
State:	CA

SEMS:

Site ID:	0902725
EPA ID:	CA1570024504
Cong District:	21,23
FIPS Code:	06029
Latitude:	34.949439
Longitude:	-117.885700
FF:	Y
NPL:	Currently on the Final NPL
Non NPL Status:	Not reported

SEMS Detail:

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	4/1/1984 6:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1989-07-14 04:00:00
Finish Date:	7/14/1989 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1990-08-30 04:00:00
Finish Date:	8/30/1990 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-08-01 04:00:00
Finish Date:	8/1/1980 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	5
Start Date:	2006-11-22 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	02
Action Code:	LY
Action Name:	FF RA
SEQ:	1
Start Date:	2010-10-08 04:00:00
Finish Date:	Not reported
Qual:	IR
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	04
Action Code:	RO
Action Name:	ROD
SEQ:	3
Start Date:	2007-09-24 04:00:00
Finish Date:	9/24/2007 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	02
Action Code:	LX
Action Name:	FF RD
SEQ:	1
Start Date:	2009-06-24 05:00:00
Finish Date:	10/31/2013 4:00:00 AM

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	03
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	3
Start Date:	1992-12-18 05:00:00
Finish Date:	3/30/1999 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	08
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	11
Start Date:	2005-08-18 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	15
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	4
Start Date:	2006-06-20 04:00:00
Finish Date:	9/16/2009 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	03
Action Code:	RO
Action Name:	ROD

EDWARDS AIR FORCE BASE (Continued) **1000155217**

SEQ: 2
Start Date: 2003-09-30 04:00:00
Finish Date: 9/30/2003 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902725
EPA ID: CA1570024504
Site Name: EDWARDS AIR FORCE BASE
NPL: F
FF: Y
OU: 04
Action Code: OM
Action Name: OM
SEQ: 3
Start Date: 2009-10-26 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902725
EPA ID: CA1570024504
Site Name: EDWARDS AIR FORCE BASE
NPL: F
FF: Y
OU: 15
Action Code: OM
Action Name: OM
SEQ: 6
Start Date: 2014-05-12 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902725
EPA ID: CA1570024504
Site Name: EDWARDS AIR FORCE BASE
NPL: F
FF: Y
OU: 04
Action Code: LW
Action Name: FF RI/FS
SEQ: 7
Start Date: 2004-01-31 05:00:00
Finish Date: 9/24/2007 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902725
EPA ID: CA1570024504
Site Name: EDWARDS AIR FORCE BASE
NPL: F
FF: Y

EDWARDS AIR FORCE BASE (Continued) **1000155217**

OU:	15
Action Code:	RO
Action Name:	ROD
SEQ:	5
Start Date:	2009-09-16 04:00:00
Finish Date:	9/16/2009 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	06
Action Code:	RO
Action Name:	ROD
SEQ:	4
Start Date:	2006-09-28 04:00:00
Finish Date:	9/28/2006 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	2009-06-24 05:00:00
Finish Date:	6/24/2009 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	15
Action Code:	LY
Action Name:	FF RA
SEQ:	4
Start Date:	2010-12-13 05:00:00
Finish Date:	5/12/2014 5:00:00 AM
Qual:	IR
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	04
Action Code:	LY
Action Name:	FF RA
SEQ:	5
Start Date:	2007-11-06 05:00:00
Finish Date:	10/26/2009 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	2
Start Date:	2004-07-30 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	15
Action Code:	LX
Action Name:	FF RD
SEQ:	5
Start Date:	2009-09-16 04:00:00
Finish Date:	11/9/2010 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1986-10-01 04:00:00
Finish Date:	10/1/1986 4:00:00 AM
Qual:	L
Current Action Lead:	Fed Fac

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	04
Action Code:	LX
Action Name:	FF RD
SEQ:	3
Start Date:	2007-09-24 04:00:00
Finish Date:	6/12/2009 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1980-08-01 04:00:00
Finish Date:	4/1/1984 6:00:00 AM
Qual:	L
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	16
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	17
Start Date:	2010-02-04 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	06
Action Code:	LY
Action Name:	FF RA
SEQ:	18
Start Date:	2006-09-28 04:00:00
Finish Date:	2/15/2008 5:00:00 AM

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	06
Action Code:	LX
Action Name:	FF RD
SEQ:	18
Start Date:	2006-09-28 04:00:00
Finish Date:	9/28/2006 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	02
Action Code:	LX
Action Name:	FF RD
SEQ:	22
Start Date:	2013-02-06 05:00:00
Finish Date:	7/25/2013 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	17
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	18
Start Date:	2005-08-12 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	14
Action Code:	LV
Action Name:	FF RV

EDWARDS AIR FORCE BASE (Continued) **1000155217**

SEQ: 2
Start Date: 2012-03-07 05:00:00
Finish Date: 10/6/2014 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902725
EPA ID: CA1570024504
Site Name: EDWARDS AIR FORCE BASE
NPL: F
FF: Y
OU: 02
Action Code: LY
Action Name: FF RA
SEQ: 19
Start Date: 2009-06-24 05:00:00
Finish Date: 11/22/2010 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902725
EPA ID: CA1570024504
Site Name: EDWARDS AIR FORCE BASE
NPL: F
FF: Y
OU: 02
Action Code: LX
Action Name: FF RD
SEQ: 19
Start Date: 2009-06-24 05:00:00
Finish Date: 6/24/2009 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902725
EPA ID: CA1570024504
Site Name: EDWARDS AIR FORCE BASE
NPL: F
FF: Y
OU: 05
Action Code: LV
Action Name: FF RV
SEQ: 1
Start Date: 2009-11-20 05:00:00
Finish Date: 8/1/2011 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902725
EPA ID: CA1570024504
Site Name: EDWARDS AIR FORCE BASE
NPL: F
FF: Y

EDWARDS AIR FORCE BASE (Continued) **1000155217**

OU:	07
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	12
Start Date:	1996-09-30 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	14
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	15
Start Date:	2014-08-26 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	13
Action Code:	RO
Action Name:	ROD
SEQ:	15
Start Date:	2012-09-21 05:00:00
Finish Date:	9/21/2012 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	13
Action Code:	NI
Action Name:	FF FS
SEQ:	1
Start Date:	2007-07-03 04:00:00
Finish Date:	9/21/2012 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	12
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	16
Start Date:	2004-01-31 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	11
Action Code:	OM
Action Name:	OM
SEQ:	8
Start Date:	2011-07-27 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	11
Action Code:	LY
Action Name:	FF RA
SEQ:	12
Start Date:	2008-08-04 05:00:00
Finish Date:	7/27/2011 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	11
Action Code:	LX
Action Name:	FF RD
SEQ:	12
Start Date:	2008-08-04 05:00:00
Finish Date:	9/28/2009 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	11
Action Code:	RO
Action Name:	ROD
SEQ:	12
Start Date:	2008-08-04 05:00:00
Finish Date:	8/4/2008 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	11
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	13
Start Date:	2004-01-31 05:00:00
Finish Date:	8/4/2008 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	02
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	2004-09-29 04:00:00
Finish Date:	6/24/2009 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	06
Action Code:	LY
Action Name:	FF RA
SEQ:	3
Start Date:	2007-10-31 04:00:00
Finish Date:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	09
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	9
Start Date:	2005-08-12 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	06
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	8
Start Date:	2003-11-11 05:00:00
Finish Date:	9/28/2006 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	06
Action Code:	LX
Action Name:	FF RD
SEQ:	4
Start Date:	2007-10-18 04:00:00
Finish Date:	2/15/2008 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902725
EPA ID:	CA1570024504
Site Name:	EDWARDS AIR FORCE BASE
NPL:	F
FF:	Y
OU:	10
Action Code:	LW
Action Name:	FF RI/FS

EDWARDS AIR FORCE BASE (Continued) **1000155217**

SEQ: 6
Start Date: 2006-11-22 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902725
EPA ID: CA1570024504
Site Name: EDWARDS AIR FORCE BASE
NPL: F
FF: Y
OU: 00
Action Code: PA
Action Name: PA
SEQ: 2
Start Date: 1986-11-01 05:00:00
Finish Date: 11/1/1986 5:00:00 AM
Qual: L
Current Action Lead: Fed Fac

CORRACTS:
EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20040803
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 92811
National Security
Original schedule date: 20040803
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20040803
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20020618
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504

EDWARDS AIR FORCE BASE (Continued) **1000155217**

EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20020618
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 92811
National Security
Original schedule date: 20020618
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20000522
Action: CA750IN - Migration of Contaminated Groundwater under Control, More information is needed to make a determination
NAICS Code(s): 92811
National Security
Original schedule date: 20000522
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20000522
Action: CA750IN - Migration of Contaminated Groundwater under Control, More information is needed to make a determination
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20000522
Action: CA725IN - Current Human Exposures Under Control, More information is needed to make a determination
NAICS Code(s): 92811
National Security
Original schedule date: 20000522
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20000522
Action: CA725IN - Current Human Exposures Under Control, More information is needed to make a determination
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Actual Date: 19980406
Action: CA225IN - Stabilization Measures Evaluation, This facility is not, amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980406
Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980406
Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s): 92811
National Security
Original schedule date: 19980406
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980406
Action: CA725NO - Current Human Exposures Under Control, Current human exposures are NOT under control
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980406
Action: CA725NO - Current Human Exposures Under Control, Current human exposures are NOT under control
NAICS Code(s): 92811
National Security
Original schedule date: 19980406
Schedule end date: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980406
Action: CA210 - CA Responsibility Referred To A Non-RCRA Federal Authority
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: OU #1
Actual Date: 19971201
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: OU #1
Actual Date: 19960401
Action: CA200 - RFI Approved
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19940819
Action: CA210SF - CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action at the facility or area referred to CERCLA
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19940819
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19930901
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary

EDWARDS AIR FORCE BASE (Continued) **1000155217**

NAICS Code(s): 92811
National Security
Original schedule date: 19930901
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19930901
Action: CA050 - RFA Completed
NAICS Code(s): 92811
National Security
Original schedule date: 19930901
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19930901
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910501
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: OU #1
Actual Date: 19900924
Action: CA100 - RFI Imposition
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: OU #1
Actual Date: 19900924
Action: CA600GW - Stabilization Measures Implemented, Groundwater extraction and treatment
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504

EDWARDS AIR FORCE BASE (Continued) **1000155217**

EPA Region: 9
Area Name: OU #1
Actual Date: 19900924
Action: CA600SR - Stabilization Measures Implemented, Primary measure is source removal and/or treatment
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19900924
Action: CA250 - CMS Imposition
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19900924
Action: CA100 - RFI Imposition
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19861101
Action: CA049PA
NAICS Code(s): 92811
National Security
Original schedule date: 19881221
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19861101
Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19861001
Action: CA029SF
NAICS Code(s): 92811

EDWARDS AIR FORCE BASE (Continued) **1000155217**

National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19861001
Action: CA049RE
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CA1570024504
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19840401
Action: CA049SI
NAICS Code(s): 92811
National Security
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 02/29/2016
Facility name: EDWARDS AIR FORCE BASE
Facility address: 446 N. ROSAMOND BLVD
BLDG 4916
EDWARD, CA 93524
EPA ID: CA1570024504
Mailing address: N. ROSAMOND BLVD.
STE A BLDG 3735
EDWARD, CA 93524
Contact: MARC G MINNECI
Contact address: N. ROSAMOND BLVD. STE A BLDG 3735
EDWARD, CA 93524
Contact country: US
Contact telephone: 661-277-1478
Contact email: MARC.MINNECI@US.AF.MIL
EPA Region: 09
Land type: Federal
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than

EDWARDS AIR FORCE BASE (Continued) **1000155217**

100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	EDWARDS AFB
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Federal
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1950
Owner/Op end date:	Not reported

Owner/operator name:	EDWARDS AIR FORCE BASE
Owner/operator address:	N. ROSAMOND BLVD. STE A BLDG 3735
	EDWARD, CA 93524
Owner/operator country:	US
Owner/operator telephone:	661-277-1401
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Federal
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1950
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	Yes
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Universal Waste Summary:

Waste type:	E
Accumulated waste on-site:	Yes
Generated waste on-site:	No

Waste type:	Batteries
Accumulated waste on-site:	Yes
Generated waste on-site:	No

Waste type: Lamps

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: Yes
Generated waste on-site: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 241
. Waste name: Tank bottom waste

. Waste code: 252
. Waste name: Other still bottom waste

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 281
. Waste name: Adhesives

. Waste code: 291
. Waste name: Latex waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 342
. Waste name: Organic liquids with metals (see 121)

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 612
. Waste name: Household waste

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN

EDWARDS AIR FORCE BASE (Continued) **1000155217**

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D020
. Waste name: CHLORDANE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:

EDWARDS AIR FORCE BASE (Continued) **1000155217**

TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U001
. Waste name: ACETALDEHYDE (I)

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U031
. Waste name: 1-BUTANOL (I)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U041
. Waste name: EPICHLOROHYDRIN

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U056
. Waste name: BENZENE, HEXAHYDRO- (I)

. Waste code: U057
. Waste name: CYCLOHEXANONE (I)

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO-

. Waste code: U080
. Waste name: METHANE, DICHLORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U128
. Waste name: 1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO-

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T)

. Waste code: U140
. Waste name: ISOBUTYL ALCOHOL (I,T)

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T)

. Waste code: U182
. Waste name: PARALDEHYDE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO-

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T)

Historical Generators:
Date form received by agency: 03/01/2014
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

. Waste code: 121
. Waste name: Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 162
. Waste name: Other spent catalyst

. Waste code: 171
. Waste name: Metal sludge (see 121)

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 211
. Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene,

EDWARDS AIR FORCE BASE (Continued) **1000155217**

etc.)

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 222
. Waste name: Oil/water separation sludge

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 241
. Waste name: Tank bottom waste

. Waste code: 251
. Waste name: Still bottoms with halogenated organics

. Waste code: 252
. Waste name: Other still bottom waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB’s

. Waste code: 271
. Waste name: Organic monomer waste (includes unreacted resins)

. Waste code: 272
. Waste name: Polymeric resin waste

. Waste code: 281
. Waste name: Adhesives

. Waste code: 291
. Waste name: Latex waste

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 321
. Waste name: Sewage sludge

. Waste code: 322
. Waste name: Biological waste other than sewage sludge

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 341

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: Organic liquids (nonsolvents) with halogens

. Waste code: 342
. Waste name: Organic liquids with metals (see 121)

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 351
. Waste name: Organic solids with halogens

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 451
. Waste name: Degreasing sludge

. Waste code: 461
. Waste name: Degreasing sludge

. Waste code: 491
. Waste name: Unspecified sludge waste

. Waste code: 511
. Waste name: Empty pesticide containers 30 gallons or more

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 581
. Waste name: Gas scrubber waste

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 612
. Waste name: Household waste

. Waste code: 711
. Waste name: Liquids with cyanides > 1000 mg/l

. Waste code: 721
. Waste name: Liquids with arsenic > 500 mg/l

. Waste code: 722

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: Liquids with cadmium > 100 mg/l

. Waste code: 723
. Waste name: Liquids with chromium (VI) > 500 mg/l

. Waste code: 724
. Waste name: Liquids with lead > 500 mg/l

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 726
. Waste name: Liquids with nickel > 134 mg/l

. Waste code: 727
. Waste name: Liquids with selenium > 100 mg/l

. Waste code: 728
. Waste name: Liquids with thallium > 130 mg/l

. Waste code: 731
. Waste name: Liquids with polychlorinated biphenyls > 50 mg/l

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 751
. Waste name: Solids or sludge with halogenated organic comp. > 1000 mg/kg

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: 801
. Waste name: Waste potentially containing dioxins

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D037
. Waste name: PENTRACHLOROPHENOL

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U001
. Waste name: ACETALDEHYDE (I)

. Waste code: U031
. Waste name: 1-BUTANOL (I)

. Waste code: U056
. Waste name: BENZENE, HEXAHYDRO- (I)

Date form received by agency: 09/11/2012
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB’s

. Waste code: 281
. Waste name: Adhesives

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 351
. Waste name: Organic solids with halogens

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 614
. Waste name: Treated wood waste

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: D037
. Waste name: PENTRACHLOROPHENOL

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P048
. Waste name: 2,4-DINITROPHENOL

. Waste code: P077
. Waste name: BENZENAMINE, 4-NITRO-

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U031
. Waste name: 1-BUTANOL (I)

. Waste code: U037
. Waste name: BENZENE, CHLORO-

. Waste code: U042
. Waste name: 2-CHLOROETHYL VINYL ETHER

. Waste code: U057
. Waste name: CYCLOHEXANONE (I)

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO-

. Waste code: U076
. Waste name: ETHANE, 1,1-DICHLORO-

. Waste code: U078
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: U084
. Waste name: 1,3-DICHLOROPROPENE

. Waste code: U112
. Waste name: ACETIC ACID ETHYL ESTER (I)

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T)

. Waste code: U140
. Waste name: ISOBUTYL ALCOHOL (I,T)

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T)

. Waste code: U161
. Waste name: METHYL ISOBUTYL KETONE (I)

. Waste code: U162
. Waste name: METHYL METHACRYLATE (I,T)

. Waste code: U220
. Waste name: BENZENE, METHYL-

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T)

Date form received by agency: 07/13/2010
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB’s

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 351
. Waste name: Organic solids with halogens

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 551
. Waste name: Laboratory waste chemicals

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P068
. Waste name: HYDRAZINE, METHYL-

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U002

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: ACETONE (I)

. Waste code: U112
. Waste name: ACETIC ACID ETHYL ESTER (I)

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T)

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO-

Date form received by agency: 02/29/2008
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D012
. Waste name: ENDRIN

. Waste code: D013
. Waste name: LINDANE

. Waste code: D014
. Waste name: METHOXYCHLOR

. Waste code: D015
. Waste name: TOXAPHENE

. Waste code: D016
. Waste name: 2,4-D

. Waste code: D017
. Waste name: 2,4,5-TP (SILVEX)

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D020
. Waste name: CHLORDANE

. Waste code: D021
. Waste name: CHLOROBENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D023
. Waste name: O-CRESOL

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D025
. Waste name: P-CRESOL

. Waste code: D026
. Waste name: CRESOL

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D029
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: D030
. Waste name: 2,4-DINITROTOLUENE

. Waste code: D031
. Waste name: HEPTACHLOR (AND ITS EPOXIDE).

. Waste code: D032
. Waste name: HEXACHLOROBENZENE

. Waste code: D033
. Waste name: HEXACHLOROBUTADIENE

. Waste code: D034
. Waste name: HEXACHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D036
. Waste name: NITROBENZENE

. Waste code: D037
. Waste name: PENTRACHLOROPHENOL

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: D041
. Waste name: 2,4,5-TRICHLOROPHENOL

. Waste code: D042
. Waste name: 2,4,6-TRICHLOROPHENOL

. Waste code: D043
. Waste name: VINYL CHLORIDE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF

EDWARDS AIR FORCE BASE (Continued) **1000155217**

ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F027
. Waste name: DISCARDED UNUSED FORMULATIONS CONTAINING TRI-, TETRA-, OR PENTACHLOROPHENOL OR DISCARDED UNUSED FORMULATIONS CONTAINING COMPOUNDS DERIVED FROM THESE CHLOROPHENOLS. (THIS LISTING DOES NOT INCLUDE FORMULATIONS CONTAINING HEXACHLOROPHENE SYTHESIZED FROM PREPURIFIED 2,4,5-TRICHLOROPHENOL AS THE SOLE COMPONENT).

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P003
. Waste name: ACROLEIN

. Waste code: P005
. Waste name: ALLYL ALCOHOL

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3

. Waste code: P014

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: BENZENETHIOL

. Waste code: P027
. Waste name: 3-CHLOROPROPIONITRILE

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)-

. Waste code: P029
. Waste name: COPPER CYANIDE

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P031
. Waste name: CYANOGEN

. Waste code: P033
. Waste name: CYANOGEN CHLORIDE

. Waste code: P037
. Waste name: DIELDRIN

. Waste code: P047
. Waste name: 4,6-DINITRO-O-CRESOL, & SALTS

. Waste code: P050
. Waste name: ENDOSULFAN

. Waste code: P051
. Waste name: 2,7:3,6-DIMETHANONAPHTH [2,3-B]OXIRENE, 3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7A-OCTAHYDRO-, (1AALPHA,2BETA,2ABETA,3ALPHA,6ALPHA,6ABETA,7BETA, 7AALPHA)-, & METABOLITES

. Waste code: P056
. Waste name: FLUORINE

. Waste code: P059
. Waste name: HEPTACHLOR

. Waste code: P063
. Waste name: HYDROCYANIC ACID

. Waste code: P068
. Waste name: HYDRAZINE, METHYL-

. Waste code: P073
. Waste name: NICKEL CARBONYL

. Waste code: P077
. Waste name: BENZENAMINE, 4-NITRO-

. Waste code: P078
. Waste name: NITROGEN DIOXIDE

. Waste code: P098

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: POTASSIUM CYANIDE

. Waste code: P104
. Waste name: SILVER CYANIDE

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U001
. Waste name: ACETALDEHYDE (I)

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U004
. Waste name: ACETOPHENONE

. Waste code: U007
. Waste name: ACRYLAMIDE

. Waste code: U008
. Waste name: ACRYLIC ACID (I)

. Waste code: U009
. Waste name: ACRYLONITRILE

. Waste code: U012
. Waste name: ANILINE (I,T)

. Waste code: U019
. Waste name: BENZENE (I,T)

. Waste code: U029
. Waste name: METHANE, BROMO-

. Waste code: U031
. Waste name: 1-BUTANOL (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U037
. Waste name: BENZENE, CHLORO-

. Waste code: U041
. Waste name: EPICHLOROHYDRIN

. Waste code: U042
. Waste name: 2-CHLOROETHYL VINYL ETHER

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U045

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: METHANE, CHLORO- (I, T)

. Waste code: U048
. Waste name: O-CHLOROPHENOL

. Waste code: U053
. Waste name: 2-BUTENAL

. Waste code: U056
. Waste name: BENZENE, HEXAHYDRO- (I)

. Waste code: U060
. Waste name: BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO-

. Waste code: U061
. Waste name: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-

. Waste code: U066
. Waste name: 1,2-DIBROMO-3-CHLOROPROPANE

. Waste code: U067
. Waste name: ETHANE, 1,2-DIBROMO-

. Waste code: U068
. Waste name: METHANE, DIBROMO-

. Waste code: U069
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO-

. Waste code: U071
. Waste name: BENZENE, 1,3-DICHLORO-

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO-

. Waste code: U074
. Waste name: 2-BUTENE, 1,4-DICHLORO- (I,T)

. Waste code: U076
. Waste name: ETHANE, 1,1-DICHLORO-

. Waste code: U077
. Waste name: ETHANE, 1,2-DICHLORO-

. Waste code: U078
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: U080
. Waste name: METHANE, DICHLORO-

. Waste code: U081
. Waste name: 2,4-DICHLOROPHENOL

. Waste code: U084

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: 1,3-DICHLOROPROPENE

. Waste code: U085
. Waste name: 2,2'-BIOXIRANE

. Waste code: U098
. Waste name: 1,1-DIMETHYLHYDRAZINE

. Waste code: U101
. Waste name: 2,4-DIMETHYLPHENOL

. Waste code: U103
. Waste name: DIMETHYL SULFATE

. Waste code: U108
. Waste name: 1,4-DIETHYLENEOXIDE

. Waste code: U112
. Waste name: ACETIC ACID ETHYL ESTER (I)

. Waste code: U121
. Waste name: METHANE, TRICHLOROFLUORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U123
. Waste name: FORMIC ACID (C,T)

. Waste code: U128
. Waste name: 1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO-

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-

. Waste code: U131
. Waste name: ETHANE, HEXACHLORO-

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T)

. Waste code: U135
. Waste name: HYDROGEN SULFIDE

. Waste code: U138
. Waste name: METHANE, IODO-

. Waste code: U140
. Waste name: ISOBUTYL ALCOHOL (I,T)

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT

. Waste code: U147
. Waste name: 2,5-FURANDIONE

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U149
. Waste name: MALONONITRILE

. Waste code: U150
. Waste name: MELPHALAN

. Waste code: U151
. Waste name: MERCURY

. Waste code: U152
. Waste name: METHACRYLONITRILE (I, T)

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T)

. Waste code: U161
. Waste name: METHYL ISOBUTYL KETONE (I)

. Waste code: U162
. Waste name: METHYL METHACRYLATE (I,T)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U169
. Waste name: BENZENE, NITRO-

. Waste code: U170
. Waste name: P-NITROPHENOL

. Waste code: U171
. Waste name: 2-NITROPROPANE (I,T)

. Waste code: U172
. Waste name: 1-BUTANAMINE, N-BUTYL-N-NITROSO-

. Waste code: U182
. Waste name: PARALDEHYDE

. Waste code: U184
. Waste name: ETHANE, PENTACHLORO-

. Waste code: U188
. Waste name: PHENOL

. Waste code: U194
. Waste name: 1-PROPANAMINE (I,T)

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U208
. Waste name: ETHANE, 1,1,1,2-TETRACHLORO-

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U209
. Waste name: ETHANE, 1,1,2,2-TETRACHLORO-

. Waste code: U210
. Waste name: ETHENE, TETRACHLORO-

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I)

. Waste code: U219
. Waste name: THIOUREA

. Waste code: U220
. Waste name: BENZENE, METHYL-

. Waste code: U221
. Waste name: BENZENEDIAMINE, AR-METHYL-

. Waste code: U222
. Waste name: BENZENAMINE, 2-METHYL-, HYDROCHLORIDE

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO-

. Waste code: U227
. Waste name: ETHANE, 1,1,2-TRICHLORO-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO-

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T)

Date form received by agency: 02/15/2006
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

. Waste code: 121
. Waste name: Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 241
. Waste name: Tank bottom waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB’s

. Waste code: 272
. Waste name: Polymeric resin waste

. Waste code: 281
. Waste name: Adhesives

. Waste code: 291
. Waste name: Latex waste

. Waste code: 322
. Waste name: Biological waste other than sewage sludge

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 341
. Waste name: Organic liquids (nonsolvents) with halogens

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 342
. Waste name: Organic liquids with metals (see 121)

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 351
. Waste name: Organic solids with halogens

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 491
. Waste name: Unspecified sludge waste

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 612
. Waste name: Household waste

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN

EDWARDS AIR FORCE BASE (Continued) **1000155217**

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING

EDWARDS AIR FORCE BASE (Continued) **1000155217**

CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P073
. Waste name: NICKEL CARBONYL

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U069
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER

. Waste code: U151
. Waste name: MERCURY

. Waste code: U161
. Waste name: METHYL ISOBUTYL KETONE (I)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO-

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T)

Date form received by agency: 02/26/2004
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D026
. Waste name: CRESOL

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

EDWARDS AIR FORCE BASE (Continued) **1000155217**

MIXTURES.

. Waste code: F004
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: CRESOLS AND CRESYLIC ACID, AND NITROBENZENE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: P068
. Waste name: HYDRAZINE, METHYL-

. Waste code: U008
. Waste name: ACRYLIC ACID (I)

. Waste code: U009
. Waste name: ACRYLONITRILE

. Waste code: U041
. Waste name: EPICHLOROHYDRIN

. Waste code: U053
. Waste name: 2-BUTENAL

. Waste code: U077
. Waste name: ETHANE, 1,2-DICHLORO-

. Waste code: U098
. Waste name: 1,1-DIMETHYLHYDRAZINE

. Waste code: U103
. Waste name: DIMETHYL SULFATE

. Waste code: U108
. Waste name: 1,4-DIETHYLENEOXIDE

. Waste code: U121
. Waste name: METHANE, TRICHLOROFLUORO-

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T)

. Waste code: U152
. Waste name: METHACRYLONITRILE (I, T)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T)

. Waste code: U162
. Waste name: METHYL METHACRYLATE (I,T)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U170
. Waste name: P-NITROPHENOL

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U220
. Waste name: BENZENE, METHYL-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO-

. Waste code: U359
. Waste name: ETHANOL, 2-ETHOXY-

Date form received by agency: 03/29/2002
Site name: EDWARDS AIRFORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 02/02/1998
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 03/27/1996
Site name: USAF EDWARDS
Classification: Large Quantity Generator

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Date form received by agency: 03/29/1994
Site name: USAF FLIGHT TEST CTR EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 04/25/1992
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 04/27/1990
Site name: EDWARDS AFB/ EXPLOSIVE ORDINACE
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 119485

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 5089900

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs): 83

Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 1315

Waste code: D005

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Waste name: BARIUM
Amount (Lbs): 31611

Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 39576

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 64624

Waste code: D008
Waste name: LEAD
Amount (Lbs): 58978

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 15200

Waste code: D011
Waste name: SILVER
Amount (Lbs): 7658

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 115711

Waste code: D019
Waste name: CARBON TETRACHLORIDE
Amount (Lbs): 1261

Waste code: D020
Waste name: CHLORDANE
Amount (Lbs): 0

Waste code: D022
Waste name: CHLOROFORM
Amount (Lbs): 1261

Waste code: D027
Waste name: 1,4-DICHLOROBENZENE
Amount (Lbs): 0

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 31493

Waste code: D039
Waste name: TETRACHLOROETHYLENE
Amount (Lbs): 5632

Waste code: D040
Waste name: TRICHLOROETHYLENE
Amount (Lbs): 4261

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:

EDWARDS AIR FORCE BASE (Continued) **1000155217**

TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 0

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 21669

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 5763

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 27585

Waste code: P012
Waste name: ARSENIC OXIDE AS2O3
Amount (Lbs): 0

Waste code: P105
Waste name: SODIUM AZIDE
Amount (Lbs): 0

Waste code: U001
Waste name: ACETALDEHYDE (I)
Amount (Lbs): 0

Waste code: U002

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Waste name: ACETONE (I)
Amount (Lbs): 0

Waste code: U003
Waste name: ACETONITRILE (I,T)
Amount (Lbs): 0

Waste code: U031
Waste name: 1-BUTANOL (I)
Amount (Lbs): 0

Waste code: U034
Waste name: ACETALDEHYDE, TRICHLORO-
Amount (Lbs): 0

Waste code: U041
Waste name: EPICHLOROHYDRIN
Amount (Lbs): 0

Waste code: U044
Waste name: CHLOROFORM
Amount (Lbs): 0

Waste code: U056
Waste name: BENZENE, HEXAHYDRO- (I)
Amount (Lbs): 0

Waste code: U057
Waste name: CYCLOHEXANONE (I)
Amount (Lbs): 0

Waste code: U070
Waste name: BENZENE, 1,2-DICHLORO-
Amount (Lbs): 0

Waste code: U080
Waste name: METHANE, DICHLORO-
Amount (Lbs): 0

Waste code: U122
Waste name: FORMALDEHYDE
Amount (Lbs): 0

Waste code: U128
Waste name: 1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO-
Amount (Lbs): 0

Waste code: U133
Waste name: HYDRAZINE (R,T)
Amount (Lbs): 7

Waste code: U134
Waste name: HYDROFLUORIC ACID (C,T)
Amount (Lbs): 2

Waste code: U140
Waste name: ISOBUTYL ALCOHOL (I,T)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Amount (Lbs): 0

Waste code: U144
Waste name: ACETIC ACID, LEAD(2+) SALT
Amount (Lbs): 0

Waste code: U154
Waste name: METHANOL (I)
Amount (Lbs): 0

Waste code: U159
Waste name: 2-BUTANONE (I,T)
Amount (Lbs): 0

Waste code: U182
Waste name: PARALDEHYDE
Amount (Lbs): 0

Waste code: U188
Waste name: PHENOL
Amount (Lbs): 0

Waste code: U226
Waste name: ETHANE, 1,1,1-TRICHLORO-
Amount (Lbs): 0

Waste code: U228
Waste name: ETHENE, TRICHLORO-
Amount (Lbs): 0

Waste code: U239
Waste name: BENZENE, DIMETHYL- (I,T)
Amount (Lbs): 14

Corrective Action Summary:

Event date: 04/01/1984
Event: PA OR CERCLA INSPECTION

Event date: 10/01/1986
Event: LEAD AGENCY DETERMINATION

Event date: 10/01/1986
Event: PA OR CERCLA INSPECTION

Event date: 11/01/1986
Event: PA OR CERCLA INSPECTION

Event date: 11/01/1986
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 09/24/1990
Event: CMS IMPOSITION

Event date: 09/24/1990
Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL &/OR TRT

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Event date:	09/24/1990
Event:	STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT
Event date:	09/24/1990
Event:	INVESTIGATION IMPOSITION
Event date:	05/01/1991
Event:	RFA COMPLETED-ASSESSMENT WAS A RFA
Event date:	09/01/1993
Event:	RFA COMPLETED
Event date:	09/01/1993
Event:	DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY
Event date:	09/01/1993
Event:	RFA COMPLETED-ASSESSMENT WAS A RFA
Event date:	08/19/1994
Event:	CA PRIORITIZATION-MEDIUM CA PRIORITY
Event date:	08/19/1994
Event:	REFERRED TO A NON-RCRA AUTHORITY-REFERRED TO CERCLA
Event date:	04/01/1996
Event:	INVESTIGATION COMPLETE
Event date:	12/01/1997
Event:	STABILIZATION CONSTRUCTION COMPLETED
Event date:	04/06/1998
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	04/06/1998
Event:	STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY
Event date:	04/06/1998
Event:	REFERRED TO A NON-RCRA AUTHORITY
Event date:	04/06/1998
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	04/06/1998
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	04/06/1998
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	05/22/2000
Event:	RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Event date:	05/22/2000

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Event: RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 05/22/2000
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 05/22/2000
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 06/18/2002
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 06/18/2002
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 08/03/2004
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 08/03/2004
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD IS-General
Date violation determined: 11/14/2017
Date achieved compliance: 12/15/2017
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/16/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Imports
Date violation determined: 11/14/2017
Date achieved compliance: 11/16/2017
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/16/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - General
Date violation determined: 11/14/2017
Date achieved compliance: 11/16/2017
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Enforcement action date: 11/16/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: HW Management System - Definitions
Date violation determined: 11/18/2014
Date achieved compliance: 11/20/2014
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/20/2014
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 05/04/1994
Date achieved compliance: 08/16/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/12/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 4700
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 05/04/1994
Date achieved compliance: 08/16/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/12/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 4700
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 05/04/1994
Date achieved compliance: 08/16/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/12/1994

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 4700
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 05/04/1994
Date achieved compliance: 08/16/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/12/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 4700
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 04/30/1993
Date achieved compliance: 06/15/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/29/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 2200
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 04/30/1993
Date achieved compliance: 06/15/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/29/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 2200
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 04/30/1993
Date achieved compliance: 06/15/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/29/1993
Enf. disposition status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 2200
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/08/1992
Date achieved compliance: 01/15/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/29/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 2200
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/08/1992
Date achieved compliance: 01/15/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 11/08/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 9000
Final penalty amount: 9000
Paid penalty amount: Not reported

Regulation violated: FR - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 10/10/1991
Date achieved compliance: 01/17/1992
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/06/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 10/10/1991
Date achieved compliance: 01/17/1992
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/06/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 10/10/1991
Date achieved compliance: 01/17/1992
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/06/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 10/10/1991
Date achieved compliance: 01/17/1992
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/06/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 10/10/1991
Date achieved compliance: 01/17/1992
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/06/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 10/10/1991
Date achieved compliance: 01/17/1992
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/06/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 10/04/1990
Date achieved compliance: 10/04/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/09/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 08/02/1989
Date achieved compliance: 08/20/1991
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/28/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 08/02/1989
Date achieved compliance: 10/04/1990
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 08/02/1989
Date achieved compliance: 08/20/1991
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 08/02/1989
Date achieved compliance: 08/20/1991
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/28/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 08/02/1989
Date achieved compliance: 10/04/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/28/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 08/02/1989
Date achieved compliance: 08/20/1991
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 01/23/1989
Date achieved compliance: 10/04/1990
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 02/09/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement action date: 08/21/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Regulation violated: F - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement action date: 08/21/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 02/09/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 02/23/1987
Date achieved compliance: 03/25/1987
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 02/23/1987
Date achieved compliance: 03/25/1987
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Evaluation Action Summary:

Evaluation date:	11/14/2017
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD IS-General
Date achieved compliance:	12/15/2017
Evaluation lead agency:	State
Evaluation date:	11/14/2017
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	11/14/2017
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - Imports
Date achieved compliance:	11/16/2017
Evaluation lead agency:	State
Evaluation date:	11/14/2017
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Universal Waste - General
Date achieved compliance:	11/16/2017
Evaluation lead agency:	State
Evaluation date:	12/20/2016
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	06/14/2016
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	11/18/2014
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	HW Management System - Definitions
Date achieved compliance:	11/20/2014
Evaluation lead agency:	State
Evaluation date:	12/10/2013
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	04/16/2013
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	04/02/2012
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/12/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/30/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/19/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/04/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/07/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/12/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/14/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/19/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/20/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Evaluation date: 11/06/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/13/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/27/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/16/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/04/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/18/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/05/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/06/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/06/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/06/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Date achieved compliance: Not reported
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 04/05/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/16/1994
Evaluation lead agency: State

Evaluation date: 04/05/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/16/1994
Evaluation lead agency: State

Evaluation date: 04/05/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/16/1994
Evaluation lead agency: State

Evaluation date: 03/30/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 06/15/1993
Evaluation lead agency: State

Evaluation date: 03/30/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/15/1993
Evaluation lead agency: State

Evaluation date: 11/08/1992
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 01/15/1993
Evaluation lead agency: State

Evaluation date: 02/19/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/17/1992
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 10/10/1991
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Evaluation date: 08/20/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/04/1990
Evaluation lead agency: EPA

Evaluation date: 08/20/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/17/1992
Evaluation lead agency: EPA

Evaluation date: 08/20/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 01/17/1992
Evaluation lead agency: EPA

Evaluation date: 08/02/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/20/1991
Evaluation lead agency: EPA

Evaluation date: 08/02/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/04/1990
Evaluation lead agency: EPA

Evaluation date: 01/23/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - General
Date achieved compliance: 10/04/1990
Evaluation lead agency: EPA

Evaluation date: 03/24/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 08/21/1988
Evaluation lead agency: EPA

Evaluation date: 03/24/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/21/1988
Evaluation lead agency: EPA

Evaluation date: 03/25/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/23/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Date achieved compliance: 03/25/1987
Evaluation lead agency: EPA

Evaluation date: 02/23/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/25/1987
Evaluation lead agency: EPA

RCRA-LQG:
Date form received by agency: 02/29/2016
Facility name: EDWARDS AIR FORCE BASE
Facility address: 446 N. ROSAMOND BLVD
BLDG 4916
EDWARD, CA 93524
EPA ID: CA1570024504
Mailing address: N. ROSAMOND BLVD.
STE A BLDG 3735
EDWARD, CA 93524
Contact: MARC G MINNECI
Contact address: N. ROSAMOND BLVD. STE A BLDG 3735
EDWARD, CA 93524
Contact country: US
Contact telephone: 661-277-1478
Contact email: MARC.MINNECI@US.AF.MIL
EPA Region: 09
Land type: Federal
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: EDWARDS AFB
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1950
Owner/Op end date: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Owner/operator name: EDWARDS AIR FORCE BASE
Owner/operator address: N. ROSAMOND BLVD. STE A BLDG 3735
EDWARD, CA 93524
Owner/operator country: US
Owner/operator telephone: 661-277-1401
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1950
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: E
Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: Yes
Generated waste on-site: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 132

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 241
. Waste name: Tank bottom waste

. Waste code: 252
. Waste name: Other still bottom waste

. Waste code: 281
. Waste name: Adhesives

. Waste code: 291
. Waste name: Latex waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 342
. Waste name: Organic liquids with metals (see 121)

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 612
. Waste name: Household waste

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D020
. Waste name: CHLORDANE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR

EDWARDS AIR FORCE BASE (Continued) **1000155217**

F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U001
. Waste name: ACETALDEHYDE (I)

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U031
. Waste name: 1-BUTANOL (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U041
. Waste name: EPICHLOROHYDRIN

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U056
. Waste name: BENZENE, HEXAHYDRO- (I)

. Waste code: U057
. Waste name: CYCLOHEXANONE (I)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO-

. Waste code: U080
. Waste name: METHANE, DICHLORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U128
. Waste name: 1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO-

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T)

. Waste code: U140
. Waste name: ISOBUTYL ALCOHOL (I,T)

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T)

. Waste code: U182
. Waste name: PARALDEHYDE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO-

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T)

Historical Generators:
Date form received by agency: 03/01/2014
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

. Waste code: 121
. Waste name: Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 162
. Waste name: Other spent catalyst

. Waste code: 171
. Waste name: Metal sludge (see 121)

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 211
. Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 222
. Waste name: Oil/water separation sludge

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 241
. Waste name: Tank bottom waste

. Waste code: 251
. Waste name: Still bottoms with halogenated organics

. Waste code: 252
. Waste name: Other still bottom waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB's

. Waste code: 271
. Waste name: Organic monomer waste (includes unreacted resins)

. Waste code: 272
. Waste name: Polymeric resin waste

. Waste code: 281
. Waste name: Adhesives

. Waste code: 291
. Waste name: Latex waste

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 321
. Waste name: Sewage sludge

. Waste code: 322
. Waste name: Biological waste other than sewage sludge

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 341
. Waste name: Organic liquids (nonsolvents) with halogens

. Waste code: 342
. Waste name: Organic liquids with metals (see 121)

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 351
. Waste name: Organic solids with halogens

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 451
. Waste name: Degreasing sludge

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 461
. Waste name: Degreasing sludge

. Waste code: 491
. Waste name: Unspecified sludge waste

. Waste code: 511
. Waste name: Empty pesticide containers 30 gallons or more

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 581
. Waste name: Gas scrubber waste

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 612
. Waste name: Household waste

. Waste code: 711
. Waste name: Liquids with cyanides > 1000 mg/l

. Waste code: 721
. Waste name: Liquids with arsenic > 500 mg/l

. Waste code: 722
. Waste name: Liquids with cadmium > 100 mg/l

. Waste code: 723
. Waste name: Liquids with chromium (VI) > 500 mg/l

. Waste code: 724
. Waste name: Liquids with lead > 500 mg/l

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 726
. Waste name: Liquids with nickel > 134 mg/l

. Waste code: 727
. Waste name: Liquids with selenium > 100 mg/l

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 728
. Waste name: Liquids with thallium > 130 mg/l

. Waste code: 731
. Waste name: Liquids with polychlorinated biphenyls > 50 mg/l

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 751
. Waste name: Solids or sludge with halogenated organic comp. > 1000 mg/kg

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: 801
. Waste name: Waste potentially containing dioxins

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D037
. Waste name: PENTRACHLOROPHENOL

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS

EDWARDS AIR FORCE BASE (Continued) **1000155217**

CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U001
. Waste name: ACETALDEHYDE (I)

. Waste code: U031
. Waste name: 1-BUTANOL (I)

. Waste code: U056
. Waste name: BENZENE, HEXAHYDRO- (I)

Date form received by agency: 09/11/2012
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB's

. Waste code: 281
. Waste name: Adhesives

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 351
. Waste name: Organic solids with halogens

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 614
. Waste name: Treated wood waste

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN

EDWARDS AIR FORCE BASE (Continued) **1000155217**

OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D037
. Waste name: PENTRACHLOROPHENOL

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING,

EDWARDS AIR FORCE BASE (Continued) **1000155217**

BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P048
. Waste name: 2,4-DINITROPHENOL

. Waste code: P077
. Waste name: BENZENAMINE, 4-NITRO-

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U031
. Waste name: 1-BUTANOL (I)

. Waste code: U037
. Waste name: BENZENE, CHLORO-

. Waste code: U042
. Waste name: 2-CHLOROETHYL VINYL ETHER

. Waste code: U057
. Waste name: CYCLOHEXANONE (I)

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO-

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U076
. Waste name: ETHANE, 1,1-DICHLORO-

. Waste code: U078
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: U084
. Waste name: 1,3-DICHLOROPROPENE

. Waste code: U112
. Waste name: ACETIC ACID ETHYL ESTER (I)

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T)

. Waste code: U140
. Waste name: ISOBUTYL ALCOHOL (I,T)

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T)

. Waste code: U161
. Waste name: METHYL ISOBUTYL KETONE (I)

. Waste code: U162
. Waste name: METHYL METHACRYLATE (I,T)

. Waste code: U220
. Waste name: BENZENE, METHYL-

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T)

Date form received by agency: 07/13/2010
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB’s

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 351
. Waste name: Organic solids with halogens

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P068
. Waste name: HYDRAZINE, METHYL-

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U112
. Waste name: ACETIC ACID ETHYL ESTER (I)

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T)

. Waste code: U226

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: ETHANE, 1,1,1-TRICHLORO-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO-

Date form received by agency: 02/29/2008
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: D012
. Waste name: ENDRIN

. Waste code: D013
. Waste name: LINDANE

. Waste code: D014
. Waste name: METHOXYCHLOR

. Waste code: D015
. Waste name: TOXAPHENE

. Waste code: D016
. Waste name: 2,4-D

. Waste code: D017
. Waste name: 2,4,5-TP (SILVEX)

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D020
. Waste name: CHLORDANE

. Waste code: D021
. Waste name: CHLOROBENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D023
. Waste name: O-CRESOL

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D025
. Waste name: P-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D029
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: D030
. Waste name: 2,4-DINITROTOLUENE

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: D031
. Waste name: HEPTACHLOR (AND ITS EPOXIDE).

. Waste code: D032
. Waste name: HEXACHLOROBENZENE

. Waste code: D033
. Waste name: HEXACHLOROBUTADIENE

. Waste code: D034
. Waste name: HEXACHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D036
. Waste name: NITROBENZENE

. Waste code: D037
. Waste name: PENTRACHLOROPHENOL

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: D041
. Waste name: 2,4,5-TRICHLOROPHENOL

. Waste code: D042
. Waste name: 2,4,6-TRICHLOROPHENOL

. Waste code: D043
. Waste name: VINYL CHLORIDE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR

EDWARDS AIR FORCE BASE (Continued) **1000155217**

F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F027
. Waste name: DISCARDED UNUSED FORMULATIONS CONTAINING TRI-, TETRA-, OR PENTACHLOROPHENOL OR DISCARDED UNUSED FORMULATIONS CONTAINING COMPOUNDS DERIVED FROM THESE CHLOROPHENOLS. (THIS LISTING DOES NOT INCLUDE FORMULATIONS CONTAINING HEXACHLOROPHENE SYTHESIZED FROM PREPURIFIED 2,4,5-TRICHLOROPHENOL AS THE SOLE COMPONENT).

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P003
. Waste name: ACROLEIN

. Waste code: P005
. Waste name: ALLYL ALCOHOL

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3

. Waste code: P014
. Waste name: BENZENETHIOL

. Waste code: P027
. Waste name: 3-CHLOROPROPIONITRILE

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)-

. Waste code: P029
. Waste name: COPPER CYANIDE

. Waste code: P030

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P031
. Waste name: CYANOGEN

. Waste code: P033
. Waste name: CYANOGEN CHLORIDE

. Waste code: P037
. Waste name: DIELDRIN

. Waste code: P047
. Waste name: 4,6-DINITRO-O-CRESOL, & SALTS

. Waste code: P050
. Waste name: ENDOSULFAN

. Waste code: P051
. Waste name: 2,7:3,6-DIMETHANONAPHTH [2,3-B]OXIRENE, 3,4,5,6,9,9-HEXACHLORO-1A,2,2A,3,6,6A,7,7A-OCTAHYDRO-, (1AALPHA,2BETA,2ABETA,3ALPHA,6ALPHA,6ABETA,7BETA, 7AALPHA)-, & METABOLITES

. Waste code: P056
. Waste name: FLUORINE

. Waste code: P059
. Waste name: HEPTACHLOR

. Waste code: P063
. Waste name: HYDROCYANIC ACID

. Waste code: P068
. Waste name: HYDRAZINE, METHYL-

. Waste code: P073
. Waste name: NICKEL CARBONYL

. Waste code: P077
. Waste name: BENZENAMINE, 4-NITRO-

. Waste code: P078
. Waste name: NITROGEN DIOXIDE

. Waste code: P098
. Waste name: POTASSIUM CYANIDE

. Waste code: P104
. Waste name: SILVER CYANIDE

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U001
. Waste name: ACETALDEHYDE (I)

. Waste code: U002

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U004
. Waste name: ACETOPHENONE

. Waste code: U007
. Waste name: ACRYLAMIDE

. Waste code: U008
. Waste name: ACRYLIC ACID (I)

. Waste code: U009
. Waste name: ACRYLONITRILE

. Waste code: U012
. Waste name: ANILINE (I,T)

. Waste code: U019
. Waste name: BENZENE (I,T)

. Waste code: U029
. Waste name: METHANE, BROMO-

. Waste code: U031
. Waste name: 1-BUTANOL (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U037
. Waste name: BENZENE, CHLORO-

. Waste code: U041
. Waste name: EPICHLOROHYDRIN

. Waste code: U042
. Waste name: 2-CHLOROETHYL VINYL ETHER

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U045
. Waste name: METHANE, CHLORO- (I, T)

. Waste code: U048
. Waste name: O-CHLOROPHENOL

. Waste code: U053
. Waste name: 2-BUTENAL

. Waste code: U056
. Waste name: BENZENE, HEXAHYDRO- (I)

. Waste code: U060

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO-

. Waste code: U061
. Waste name: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-

. Waste code: U066
. Waste name: 1,2-DIBROMO-3-CHLOROPROPANE

. Waste code: U067
. Waste name: ETHANE, 1,2-DIBROMO-

. Waste code: U068
. Waste name: METHANE, DIBROMO-

. Waste code: U069
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO-

. Waste code: U071
. Waste name: BENZENE, 1,3-DICHLORO-

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO-

. Waste code: U074
. Waste name: 2-BUTENE, 1,4-DICHLORO- (I,T)

. Waste code: U076
. Waste name: ETHANE, 1,1-DICHLORO-

. Waste code: U077
. Waste name: ETHANE, 1,2-DICHLORO-

. Waste code: U078
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: U080
. Waste name: METHANE, DICHLORO-

. Waste code: U081
. Waste name: 2,4-DICHLOROPHENOL

. Waste code: U084
. Waste name: 1,3-DICHLOROPROPENE

. Waste code: U085
. Waste name: 2,2'-BIOXIRANE

. Waste code: U098
. Waste name: 1,1-DIMETHYLHYDRAZINE

. Waste code: U101
. Waste name: 2,4-DIMETHYLPHENOL

. Waste code: U103

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: DIMETHYL SULFATE

. Waste code: U108
. Waste name: 1,4-DIETHYLENEOXIDE

. Waste code: U112
. Waste name: ACETIC ACID ETHYL ESTER (I)

. Waste code: U121
. Waste name: METHANE, TRICHLOROFLUORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U123
. Waste name: FORMIC ACID (C,T)

. Waste code: U128
. Waste name: 1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO-

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-

. Waste code: U131
. Waste name: ETHANE, HEXACHLORO-

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T)

. Waste code: U135
. Waste name: HYDROGEN SULFIDE

. Waste code: U138
. Waste name: METHANE, IODO-

. Waste code: U140
. Waste name: ISOBUTYL ALCOHOL (I,T)

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT

. Waste code: U147
. Waste name: 2,5-FURANDIONE

. Waste code: U149
. Waste name: MALONONITRILE

. Waste code: U150
. Waste name: MELPHALAN

. Waste code: U151
. Waste name: MERCURY

. Waste code: U152
. Waste name: METHACRYLONITRILE (I, T)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T)

. Waste code: U161
. Waste name: METHYL ISOBUTYL KETONE (I)

. Waste code: U162
. Waste name: METHYL METHACRYLATE (I,T)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U169
. Waste name: BENZENE, NITRO-

. Waste code: U170
. Waste name: P-NITROPHENOL

. Waste code: U171
. Waste name: 2-NITROPROPANE (I,T)

. Waste code: U172
. Waste name: 1-BUTANAMINE, N-BUTYL-N-NITROSO-

. Waste code: U182
. Waste name: PARALDEHYDE

. Waste code: U184
. Waste name: ETHANE, PENTACHLORO-

. Waste code: U188
. Waste name: PHENOL

. Waste code: U194
. Waste name: 1-PROPANAMINE (I,T)

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U208
. Waste name: ETHANE, 1,1,1,2-TETRACHLORO-

. Waste code: U209
. Waste name: ETHANE, 1,1,2,2-TETRACHLORO-

. Waste code: U210
. Waste name: ETHENE, TETRACHLORO-

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U219
. Waste name: THIOUREA

. Waste code: U220
. Waste name: BENZENE, METHYL-

. Waste code: U221
. Waste name: BENZENEDIAMINE, AR-METHYL-

. Waste code: U222
. Waste name: BENZENAMINE, 2-METHYL-, HYDROCHLORIDE

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO-

. Waste code: U227
. Waste name: ETHANE, 1,1,2-TRICHLORO-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO-

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T)

Date form received by agency: 02/15/2006
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

. Waste code: 121
. Waste name: Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 241
. Waste name: Tank bottom waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB's

. Waste code: 272
. Waste name: Polymeric resin waste

. Waste code: 281
. Waste name: Adhesives

. Waste code: 291
. Waste name: Latex waste

. Waste code: 322
. Waste name: Biological waste other than sewage sludge

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 341
. Waste name: Organic liquids (nonsolvents) with halogens

. Waste code: 342
. Waste name: Organic liquids with metals (see 121)

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 351
. Waste name: Organic solids with halogens

. Waste code: 352
. Waste name: Other organic solids

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: 491
. Waste name: Unspecified sludge waste

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 612
. Waste name: Household waste

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D005
. Waste name: BARIUM

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR

EDWARDS AIR FORCE BASE (Continued) **1000155217**

F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P073
. Waste name: NICKEL CARBONYL

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U069
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER

. Waste code: U151
. Waste name: MERCURY

. Waste code: U161
. Waste name: METHYL ISOBUTYL KETONE (I)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO-

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T)

Date form received by agency: 02/26/2004
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

EDWARDS AIR FORCE BASE (Continued) **1000155217**

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D026
. Waste name: CRESOL

. Waste code: D027

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: CRESOLS AND CRESYLIC ACID, AND NITROBENZENE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL

EDWARDS AIR FORCE BASE (Continued) **1000155217**

KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: P068
. Waste name: HYDRAZINE, METHYL-

. Waste code: U008
. Waste name: ACRYLIC ACID (I)

. Waste code: U009
. Waste name: ACRYLONITRILE

. Waste code: U041
. Waste name: EPICHLOROHYDRIN

. Waste code: U053
. Waste name: 2-BUTENAL

. Waste code: U077
. Waste name: ETHANE, 1,2-DICHLORO-

. Waste code: U098
. Waste name: 1,1-DIMETHYLHYDRAZINE

. Waste code: U103
. Waste name: DIMETHYL SULFATE

. Waste code: U108
. Waste name: 1,4-DIETHYLENEOXIDE

. Waste code: U121
. Waste name: METHANE, TRICHLOROFLUORO-

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T)

. Waste code: U152
. Waste name: METHACRYLONITRILE (I, T)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

. Waste code: U162
. Waste name: METHYL METHACRYLATE (I,T)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U170
. Waste name: P-NITROPHENOL

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U220
. Waste name: BENZENE, METHYL-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO-

. Waste code: U359
. Waste name: ETHANOL, 2-ETHOXY-

Date form received by agency: 03/29/2002
Site name: EDWARDS AIRFORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 02/02/1998
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 03/27/1996
Site name: USAF EDWARDS
Classification: Large Quantity Generator

Date form received by agency: 03/29/1994
Site name: USAF FLIGHT TEST CTR EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 04/25/1992
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 04/27/1990
Site name: EDWARDS AFB/ EXPLOSIVE ORDINACE
Classification: Large Quantity Generator

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Date form received by agency: 08/18/1980
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 119485

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 5089900

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs): 83

Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 1315

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 31611

Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 39576

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 64624

Waste code: D008

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Waste name: LEAD
Amount (Lbs): 58978

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 15200

Waste code: D011
Waste name: SILVER
Amount (Lbs): 7658

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 115711

Waste code: D019
Waste name: CARBON TETRACHLORIDE
Amount (Lbs): 1261

Waste code: D020
Waste name: CHLORDANE
Amount (Lbs): 0

Waste code: D022
Waste name: CHLOROFORM
Amount (Lbs): 1261

Waste code: D027
Waste name: 1,4-DICHLOROBENZENE
Amount (Lbs): 0

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 31493

Waste code: D039
Waste name: TETRACHLOROETHYLENE
Amount (Lbs): 5632

Waste code: D040
Waste name: TRICHLOROETHYLENE
Amount (Lbs): 4261

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 0

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

EDWARDS AIR FORCE BASE (Continued) **1000155217**

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 21669

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 5763

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 27585

Waste code: P012
Waste name: ARSENIC OXIDE AS2O3
Amount (Lbs): 0

Waste code: P105
Waste name: SODIUM AZIDE
Amount (Lbs): 0

Waste code: U001
Waste name: ACETALDEHYDE (I)
Amount (Lbs): 0

Waste code: U002
Waste name: ACETONE (I)
Amount (Lbs): 0

Waste code: U003
Waste name: ACETONITRILE (I,T)
Amount (Lbs): 0

Waste code: U031
Waste name: 1-BUTANOL (I)
Amount (Lbs): 0

Waste code: U034

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Waste name: ACETALDEHYDE, TRICHLORO-
Amount (Lbs): 0

Waste code: U041
Waste name: EPICHLOROHYDRIN
Amount (Lbs): 0

Waste code: U044
Waste name: CHLOROFORM
Amount (Lbs): 0

Waste code: U056
Waste name: BENZENE, HEXAHYDRO- (I)
Amount (Lbs): 0

Waste code: U057
Waste name: CYCLOHEXANONE (I)
Amount (Lbs): 0

Waste code: U070
Waste name: BENZENE, 1,2-DICHLORO-
Amount (Lbs): 0

Waste code: U080
Waste name: METHANE, DICHLORO-
Amount (Lbs): 0

Waste code: U122
Waste name: FORMALDEHYDE
Amount (Lbs): 0

Waste code: U128
Waste name: 1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO-
Amount (Lbs): 0

Waste code: U133
Waste name: HYDRAZINE (R,T)
Amount (Lbs): 7

Waste code: U134
Waste name: HYDROFLUORIC ACID (C,T)
Amount (Lbs): 2

Waste code: U140
Waste name: ISOBUTYL ALCOHOL (I,T)
Amount (Lbs): 0

Waste code: U144
Waste name: ACETIC ACID, LEAD(2+) SALT
Amount (Lbs): 0

Waste code: U154
Waste name: METHANOL (I)
Amount (Lbs): 0

Waste code: U159
Waste name: 2-BUTANONE (I,T)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Amount (Lbs): 0

Waste code: U182
Waste name: PARALDEHYDE
Amount (Lbs): 0

Waste code: U188
Waste name: PHENOL
Amount (Lbs): 0

Waste code: U226
Waste name: ETHANE, 1,1,1-TRICHLORO-
Amount (Lbs): 0

Waste code: U228
Waste name: ETHENE, TRICHLORO-
Amount (Lbs): 0

Waste code: U239
Waste name: BENZENE, DIMETHYL- (I,T)
Amount (Lbs): 14

Corrective Action Summary:

Event date: 04/01/1984
Event: PA OR CERCLA INSPECTION

Event date: 10/01/1986
Event: LEAD AGENCY DETERMINATION

Event date: 10/01/1986
Event: PA OR CERCLA INSPECTION

Event date: 11/01/1986
Event: PA OR CERCLA INSPECTION

Event date: 11/01/1986
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 09/24/1990
Event: CMS IMPOSITION

Event date: 09/24/1990
Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL &/OR TRT

Event date: 09/24/1990
Event: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT

Event date: 09/24/1990
Event: INVESTIGATION IMPOSITION

Event date: 05/01/1991
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 09/01/1993

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Event:	RFA COMPLETED
Event date:	09/01/1993
Event:	DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY
Event date:	09/01/1993
Event:	RFA COMPLETED-ASSESSMENT WAS A RFA
Event date:	08/19/1994
Event:	CA PRIORITIZATION-MEDIUM CA PRIORITY
Event date:	08/19/1994
Event:	REFERRED TO A NON-RCRA AUTHORITY-REFERRED TO CERCLA
Event date:	04/01/1996
Event:	INVESTIGATION COMPLETE
Event date:	12/01/1997
Event:	STABILIZATION CONSTRUCTION COMPLETED
Event date:	04/06/1998
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	04/06/1998
Event:	STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY
Event date:	04/06/1998
Event:	REFERRED TO A NON-RCRA AUTHORITY
Event date:	04/06/1998
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	04/06/1998
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	04/06/1998
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	05/22/2000
Event:	RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Event date:	05/22/2000
Event:	RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Event date:	05/22/2000
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Event date:	05/22/2000
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Event date:	06/18/2002
Event:	RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Event date: 06/18/2002
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 08/03/2004
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 08/03/2004
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD IS-General
Date violation determined: 11/14/2017
Date achieved compliance: 12/15/2017
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/16/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Imports
Date violation determined: 11/14/2017
Date achieved compliance: 11/16/2017
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/16/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - General
Date violation determined: 11/14/2017
Date achieved compliance: 11/16/2017
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/16/2017
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: HW Management System - Definitions
Date violation determined: 11/18/2014

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Date achieved compliance: 11/20/2014
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/20/2014
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 05/04/1994
Date achieved compliance: 08/16/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/12/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 4700
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 05/04/1994
Date achieved compliance: 08/16/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/12/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 4700
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 05/04/1994
Date achieved compliance: 08/16/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/12/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 4700
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 05/04/1994
Date achieved compliance: 08/16/1994

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/12/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 4700
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 04/30/1993
Date achieved compliance: 06/15/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/29/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 2200
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 04/30/1993
Date achieved compliance: 06/15/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/29/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 2200
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 04/30/1993
Date achieved compliance: 06/15/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 04/29/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 2200
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/08/1992
Date achieved compliance: 01/15/1993
Violation lead agency: State

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	04/29/1993
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	2200
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 270
Area of violation:	TSD - General
Date violation determined:	11/08/1992
Date achieved compliance:	01/15/1993
Violation lead agency:	State
Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	11/08/1992
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	9000
Final penalty amount:	9000
Paid penalty amount:	Not reported
Regulation violated:	FR - 264.30-37.C
Area of violation:	TSD - General
Date violation determined:	10/10/1991
Date achieved compliance:	01/17/1992
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	12/06/1991
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 264.10-18.B
Area of violation:	TSD - General
Date violation determined:	10/10/1991
Date achieved compliance:	01/17/1992
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	12/06/1991
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 264.50-56.D
Area of violation:	TSD - General
Date violation determined:	10/10/1991
Date achieved compliance:	01/17/1992
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Enforcement action date:	12/06/1991
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 270
Area of violation:	TSD - General
Date violation determined:	10/10/1991
Date achieved compliance:	01/17/1992
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	12/06/1991
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 262.50-60
Area of violation:	Generators - General
Date violation determined:	10/10/1991
Date achieved compliance:	01/17/1992
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	12/06/1991
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 264.170-177.I
Area of violation:	TSD - General
Date violation determined:	10/10/1991
Date achieved compliance:	01/17/1992
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	12/06/1991
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	EPA
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	FR - 270
Area of violation:	TSD - General
Date violation determined:	10/04/1990
Date achieved compliance:	10/04/1990
Violation lead agency:	EPA
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	08/09/1990

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 08/02/1989
Date achieved compliance: 08/20/1991
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/28/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 08/02/1989
Date achieved compliance: 10/04/1990
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 08/02/1989
Date achieved compliance: 08/20/1991
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 08/02/1989
Date achieved compliance: 08/20/1991
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/28/1989
Enf. disposition status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 08/02/1989
Date achieved compliance: 10/04/1990
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/28/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 08/02/1989
Date achieved compliance: 08/20/1991
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 01/23/1989
Date achieved compliance: 10/04/1990
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 02/09/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement action date: 08/21/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement action date: 08/21/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 03/24/1988
Date achieved compliance: 08/21/1988
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 02/09/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 02/23/1987
Date achieved compliance: 03/25/1987
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 02/23/1987
Date achieved compliance: 03/25/1987
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 11/14/2017
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-General
Date achieved compliance: 12/15/2017
Evaluation lead agency: State

Evaluation date: 11/14/2017
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Evaluation lead agency: State

Evaluation date: 11/14/2017
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Imports
Date achieved compliance: 11/16/2017
Evaluation lead agency: State

Evaluation date: 11/14/2017
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - General
Date achieved compliance: 11/16/2017
Evaluation lead agency: State

Evaluation date: 12/20/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/14/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/18/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: HW Management System - Definitions
Date achieved compliance: 11/20/2014
Evaluation lead agency: State

Evaluation date: 12/10/2013
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/16/2013
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/02/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/12/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/30/2009

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/19/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/04/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/07/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/12/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/14/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/19/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/20/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/06/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/13/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Evaluation lead agency: State

Evaluation date: 06/27/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/16/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/04/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/18/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/05/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/06/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/06/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/06/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 04/05/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/16/1994
Evaluation lead agency: State

Evaluation date: 04/05/1994

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/16/1994
Evaluation lead agency: State

Evaluation date: 04/05/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/16/1994
Evaluation lead agency: State

Evaluation date: 03/30/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 06/15/1993
Evaluation lead agency: State

Evaluation date: 03/30/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/15/1993
Evaluation lead agency: State

Evaluation date: 11/08/1992
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 01/15/1993
Evaluation lead agency: State

Evaluation date: 02/19/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/17/1992
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 10/10/1991
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 08/20/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/04/1990
Evaluation lead agency: EPA

Evaluation date: 08/20/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/17/1992

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Evaluation lead agency: EPA

Evaluation date: 08/20/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 01/17/1992
Evaluation lead agency: EPA

Evaluation date: 08/02/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/20/1991
Evaluation lead agency: EPA

Evaluation date: 08/02/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/04/1990
Evaluation lead agency: EPA

Evaluation date: 01/23/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - General
Date achieved compliance: 10/04/1990
Evaluation lead agency: EPA

Evaluation date: 03/24/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 08/21/1988
Evaluation lead agency: EPA

Evaluation date: 03/24/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/21/1988
Evaluation lead agency: EPA

Evaluation date: 03/25/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/23/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/25/1987
Evaluation lead agency: EPA

Evaluation date: 02/23/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/25/1987
Evaluation lead agency: EPA

US ENG CONTROLS:
EPA ID: CA1570024504

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
5 EAST POPSON AVE, BLDG 2650A
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Actual Date: 09/30/2012
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Debris
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Debris
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Debris
Engineering Control: Recycling
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Free-phase NAPL
Engineering Control: Air Sparging: Oxygen Enhancement
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Contaminated Media : Free-phase NAPL
Engineering Control: Bioremediation (in situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Biosparging
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Chemical Oxidation, (N.O.S)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Enhanced In-Situ Bioremediation: Oxygen Addition
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Hydraulic Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: In-Situ Chemical Oxidation (ISCO)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Recovery Wells
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Reinjection
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: No Action
Contact Name: Not reported
Contact Phone and Ext: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Solid Waste
Engineering Control: Cap
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Solid Waste
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Solid Waste
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 06/24/2009
Operable Unit: 02
Contaminated Media : Solid Waste
Engineering Control: Surface Drainage Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2003
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: No Action
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 09/24/2007
Operable Unit: 04
Contaminated Media : Groundwater

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 09/24/2007
Operable Unit: 04
Contaminated Media : Soil
Engineering Control: No Action
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/28/2006
Operable Unit: 06
Contaminated Media : Groundwater
Engineering Control: In-Situ Chemical Oxidation (ISCO)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/28/2006
Operable Unit: 06
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/28/2006
Operable Unit: 06
Contaminated Media : Soil
Engineering Control: No Action
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 09/16/2009
Operable Unit: 15
Contaminated Media : Soil
Engineering Control: No Action
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 005
Action Name: RECORD OF DECISION

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Action Completion date: 09/16/2009
Operable Unit: 15
Contaminated Media : Solid Waste
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 09/16/2009
Operable Unit: 15
Contaminated Media : Solid Waste
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 09/16/2009
Operable Unit: 15
Contaminated Media : Solid Waste
Engineering Control: Revegetation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 09/16/2009
Operable Unit: 15
Contaminated Media : Solid Waste
Engineering Control: Soil Cover
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 09/16/2009
Operable Unit: 15
Contaminated Media : Solid Waste
Engineering Control: Surface Drainage Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 012
Action Name: RECORD OF DECISION
Action Completion date: 08/04/2008
Operable Unit: 11
Contaminated Media : Debris
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Action ID: 012
Action Name: RECORD OF DECISION
Action Completion date: 08/04/2008
Operable Unit: 11
Contaminated Media : Debris
Engineering Control: Engineering Control, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 012
Action Name: RECORD OF DECISION
Action Completion date: 08/04/2008
Operable Unit: 11
Contaminated Media : Debris
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 012
Action Name: RECORD OF DECISION
Action Completion date: 08/04/2008
Operable Unit: 11
Contaminated Media : Debris
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 012
Action Name: RECORD OF DECISION
Action Completion date: 08/04/2008
Operable Unit: 11
Contaminated Media : Soil
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 012
Action Name: RECORD OF DECISION
Action Completion date: 08/04/2008
Operable Unit: 11
Contaminated Media : Soil
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 012
Action Name: RECORD OF DECISION
Action Completion date: 08/04/2008
Operable Unit: 11
Contaminated Media : Soil
Engineering Control: Impermeable Barrier
Contact Name: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 012
Action Name: RECORD OF DECISION
Action Completion date: 08/04/2008
Operable Unit: 11
Contaminated Media : Soil
Engineering Control: No Further Action
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 012
Action Name: RECORD OF DECISION
Action Completion date: 08/04/2008
Operable Unit: 11
Contaminated Media : Soil
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 015
Action Name: RECORD OF DECISION
Action Completion date: 09/21/2012
Operable Unit: 13
Contaminated Media : Debris
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 015
Action Name: RECORD OF DECISION
Action Completion date: 09/21/2012
Operable Unit: 13
Contaminated Media : Debris
Engineering Control: Recycling
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 015
Action Name: RECORD OF DECISION
Action Completion date: 09/21/2012
Operable Unit: 13
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 015
Action Name: RECORD OF DECISION
Action Completion date: 09/21/2012
Operable Unit: 13

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Contaminated Media : Groundwater
Engineering Control: Natural Attenuation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 015
Action Name: RECORD OF DECISION
Action Completion date: 09/21/2012
Operable Unit: 13
Contaminated Media : Landfill Gas
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 015
Action Name: RECORD OF DECISION
Action Completion date: 09/21/2012
Operable Unit: 13
Contaminated Media : Solid Waste
Engineering Control: Consolidate
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 015
Action Name: RECORD OF DECISION
Action Completion date: 09/21/2012
Operable Unit: 13
Contaminated Media : Solid Waste
Engineering Control: Evapotranspiration Cover
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 015
Action Name: RECORD OF DECISION
Action Completion date: 09/21/2012
Operable Unit: 13
Contaminated Media : Solid Waste
Engineering Control: Surface Drainage Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/27/2012
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Other, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Action Name: ROD Amendment
Action Completion date: 09/27/2012
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/27/2012
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/27/2012
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Sampling
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/27/2012
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Surface Drainage Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/27/2012
Operable Unit: 02
Contaminated Media : Solid Waste
Engineering Control: Disposal
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/27/2012
Operable Unit: 02
Contaminated Media : Solid Waste
Engineering Control: Excavation
Contact Name: Not reported
Contact Phone and Ext: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/27/2012
Operable Unit: 02
Contaminated Media : Solid Waste
Engineering Control: Physical Separation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: ROD Amendment
Action Completion date: 09/27/2012
Operable Unit: 02
Contaminated Media : Solid Waste
Engineering Control: Recycling
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

US INST CONTROL:
EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Building, Demolition, or Excavation Regulation
Actual Date: 09/30/2009
Complet. Date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Groundwater use/well drilling regulation
Actual Date: 09/30/2009
Complet. Date: 06/24/2009
Operable Unit: 02
Contaminated Media : Groundwater
Contact Name : Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Building, demolition, or excavation regulation
Actual Date: 09/30/2009
Complet. Date: 06/24/2009
Operable Unit: 02
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Access Restriction, Fencing
Actual Date: 09/30/2009
Complet. Date: 06/24/2009
Operable Unit: 02
Contaminated Media : Solid Waste
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Building, demolition, or excavation regulation
Actual Date: 09/30/2009
Complet. Date: 06/24/2009
Operable Unit: 02
Contaminated Media : Solid Waste
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Groundwater Use/Well Drilling Regulation
Actual Date: 09/30/2009
Complet. Date: 06/24/2009
Operable Unit: 02
Contaminated Media : Solid Waste
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Base use plan change
Actual Date: 09/30/2007
Complet. Date: 09/24/2007
Operable Unit: 04
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Covenant
Actual Date: 09/30/2007
Complet. Date: 09/24/2007
Operable Unit: 04
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Groundwater use/well drilling regulation
Actual Date: 09/30/2007
Complet. Date: 09/24/2007
Operable Unit: 04
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Notices to State Regulators Before Changes in Land Ownership
Actual Date: 09/30/2007
Complet. Date: 09/24/2007
Operable Unit: 04
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Building, Demolition, or Excavation Regulation
Actual Date: 09/30/2007
Complet. Date: 09/24/2007
Operable Unit: 04
Contaminated Media : Soil Gas
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524

EDWARDS AIR FORCE BASE (Continued) **1000155217**

EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Easement
Actual Date: 09/30/2007
Complet. Date: 09/24/2007
Operable Unit: 04
Contaminated Media : Soil Gas
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Land Use Restriction
Actual Date: 09/30/2007
Complet. Date: 09/24/2007
Operable Unit: 04
Contaminated Media : Soil Gas
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Covenant
Actual Date: 09/30/2006
Complet. Date: 09/28/2006
Operable Unit: 06
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Inst. Control: Deed Notices
Actual Date: 09/30/2006
Complet. Date: 09/28/2006
Operable Unit: 06
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Groundwater use/well drilling regulation
Actual Date: 09/30/2006
Complet. Date: 09/28/2006
Operable Unit: 06
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Access Restriction, Fencing
Actual Date: 09/30/2009
Complet. Date: 09/16/2009
Operable Unit: 15
Contaminated Media : Solid Waste
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Land Use Restriction
Actual Date: 09/30/2009
Complet. Date: 09/16/2009

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Operable Unit: 15
Contaminated Media : Solid Waste
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Building, demolition, or excavation regulation
Actual Date: 09/30/2008
Complet. Date: 08/04/2008
Operable Unit: 11
Contaminated Media : Debris
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Zoning regulation
Actual Date: 09/30/2008
Complet. Date: 08/04/2008
Operable Unit: 11
Contaminated Media : Debris
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Building, demolition, or excavation regulation
Actual Date: 09/30/2008
Complet. Date: 08/04/2008
Operable Unit: 11
Contaminated Media : Soil
Contact Name : Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Zoning regulation
Actual Date: 09/30/2008
Complet. Date: 08/04/2008
Operable Unit: 11
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Institutional Controls, (N.O.S.)
Actual Date: 09/30/2012
Complet. Date: 09/21/2012
Operable Unit: 13
Contaminated Media : Debris
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Institutional Controls, (N.O.S.)
Actual Date: 09/30/2012
Complet. Date: 09/21/2012
Operable Unit: 13
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Institutional Controls, (N.O.S.)
Actual Date: 09/30/2012
Complet. Date: 09/21/2012
Operable Unit: 13
Contaminated Media : Landfill Gas
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Access Restriction, Fencing
Actual Date: 09/30/2012
Complet. Date: 09/21/2012
Operable Unit: 13
Contaminated Media : Solid Waste
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

EPA ID: CA1570024504
Site ID: 0902725
Name: EDWARDS AIR FORCE BASE
Action Name: RECORD OF DECISION
Address: AFFTC EDWARDS AFB
EDWARDS AFB, CA 93524
EPA Region: 09
County: KERN
Event Code: Not reported
Inst. Control: Institutional Controls, (N.O.S.)
Actual Date: 09/30/2012
Complet. Date: 09/21/2012
Operable Unit: 13
Contaminated Media : Solid Waste
Contact Name : Not reported
Contact Phone and Ext : Not reported
Event Code Description: Not reported

ENVIROSTOR:
Facility ID: 15970001
Status: Active

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Status Date:	05/01/1986
Site Code:	100052
Site Type:	Federal Superfund
Site Type Detailed:	Open Base
Acres:	300800
NPL:	YES
Regulatory Agencies:	SMBRP, RWQCB 6V - Lahontan, US EPA
Lead Agency:	US EPA
Program Manager:	Kevin Depies
Supervisor:	Peter Bailey
Division Branch:	Cleanup Legacy Landfills
Assembly:	36
Senate:	16
Special Program:	DSMOA
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	34.90604
Longitude:	-117.8825
APN:	NONE SPECIFIED
Past Use:	AIRCRAFT MAINTENANCE, FUEL - AIRCRAFT STORAGE/ REFUELING, AIRCRAFT MAINTENANCE, RESEARCH - OTHER, AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, RESEARCH - OTHER, AEROSPACE ROCKET TESTING/LAUNCH, FUEL - AIRCRAFT STORAGE/ REFUELING, AEROSPACE ROCKET TESTING/LAUNCH, RESEARCH - AEROSPACE, LANDFILL - CONSTRUCTION, LANDFILL - DOMESTIC, LANDFILL - HAZARDOUS WASTE, FUEL - AIRCRAFT STORAGE/ REFUELING, AIRCRAFT MAINTENANCE, FUEL - AIRCRAFT STORAGE/ REFUELING, AEROSPACE ROCKET TESTING/LAUNCH, AEROSPACE ROCKET TESTING/LAUNCH, RESEARCH - AEROSPACE, DEGREASING FACILITY, JET FUEL STORAGE/REFUELING, AIRCRAFT MAINTENANCE, AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, DEGREASING FACILITY, DEGREASING FACILITY, ABOVE GROUND STORAGE TANKS, AEROSPACE MANUFACTURING/MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH, AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, FUEL - AIRCRAFT STORAGE/ REFUELING, AIRCRAFT MAINTENANCE, RESEARCH - CHEMICAL, AEROSPACE MANUFACTURING/MAINTENANCE, FUEL - AIRCRAFT STORAGE/ REFUELING, AEROSPACE ROCKET TESTING/LAUNCH, AIRFIELD OPERATIONS, RESEARCH - CHEMICAL, AEROSPACE MANUFACTURING/MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH, RESEARCH - CHEMICAL, RESEARCH - CHEMICAL, DEGREASING FACILITY, AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, FUEL - AIRCRAFT STORAGE/ REFUELING, JET FUEL STORAGE/REFUELING, AEROSPACE MANUFACTURING/MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH, AEROSPACE MANUFACTURING/MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH, AEROSPACE ROCKET TESTING/LAUNCH, DEGREASING FACILITY, FUEL - AIRCRAFT STORAGE/ REFUELING, AIRCRAFT MAINTENANCE, FUEL - AIRCRAFT STORAGE/ REFUELING, DEGREASING FACILITY, AIRCRAFT MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH, AIRCRAFT MAINTENANCE, LANDFILL - HAZARDOUS WASTE, OPEN BURN/OPEN DETONATION, RESEARCH - AEROSPACE, RESEARCH - CHEMICAL, AEROSPACE ROCKET TESTING/LAUNCH, RESEARCH - AEROSPACE, AEROSPACE ROCKET TESTING/LAUNCH, RESEARCH - AEROSPACE, WASTE - INDUSTRIAL WASTE LINE, LANDFILL - HAZARDOUS WASTE, AEROSPACE ROCKET TESTING/LAUNCH, AEROSPACE MANUFACTURING/MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH
Potential COC:	Benzene Benzene Tetrachloroethylene (PCE TPH-JET FUEL 1,1-Dichloroethane 1,2-Dichloroethane (EDC Ethylbenzene 1,1,2,2-Tetrachloroethane Toluene 1,2,4-Trimethylbenzene Xylenes Benzene Methylene chloride Trichloroethylene (TCE Explosives (UXO, MEC Explosives (UXO, MEC Explosives (UXO, MEC Perchlorate Polynuclear aromatic hydrocarbons (PAHs Trichloroethylene (TCE

EDWARDS AIR FORCE BASE (Continued) **1000155217**

N-Nitrosodimethylamine Methyl tertbutyl ether (MTBE Perchlorate Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride 1,2-Dichloroethylene (cis 1,4-Dioxane N-Nitrosodimethylamine Perchlorate Perchlorate Polychlorinated biphenyls (PCBs Polychlorinated biphenyls (PCBs Polynuclear aromatic hydrocarbons (PAHs Polynuclear aromatic hydrocarbons (PAHs Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE Carbon tetrachloride Polynuclear aromatic hydrocarbons (PAHs Trichloroethylene (TCE 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans Tetrachloroethylene (PCE Trichloroethylene (TCE Tetrachloroethylene (PCE N-Nitrosodimethylamine TPH-gas TPH-JET FUEL TPH-JET FUEL Trichloroethylene (TCE 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans Benzene Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethylene 1,2,4-Trimethylbenzene 1,2-Dichloroethane (EDC 1,2-Dichloroethylene (cis 1,3,5-Trimethylbenzene 1,4-Dichlorobenzene 1,4-Dioxane Benzene Chloromethane (methyl chloride Ethylbenzene Methyl tertbutyl ether (MTBE Methylene chloride N-Nitrosodimethylamine Naphthalene Tetrachloroethylene (PCE Toluene Trichloroethylene (TCE Xylenes Trichloroethylene (TCE Trichloroethylene (TCE Trichloroethylene (TCE Trichloroethylene (TCE Aluminum Barium and compounds Beryllium and compounds Naphthalene Antimony and compounds Arsenic Molybdenum Nickel Antimony and compounds Cadmium and compounds Lead Mercury and compounds Nickel Antimony and compounds Cadmium and compounds Ethylbenzene Lead Manganese and compounds Polychlorinated biphenyls (PCBs Toluene Xylenes Zinc Beryllium and compounds Beryllium and compounds Beryllium and compounds Chromium III Chromium VI Cobalt Iron Mercury and compounds Thallium and compounds Vanadium and compounds Zinc Chromium III Chromium VI Copper and compounds Iron Lead Nickel Perchlorate Selenium Zinc 1,2-Dichloroethane (EDC Benzene Trichloroethylene (TCE 1,2-Dichloroethane (EDC 1,4-Dichlorobenzene Chloroform Hexachlorobutadiene Nickel Trichloroethylene (TCE 1,2-Dichloroethane (EDC 1,2-Dichloroethylene (cis Benzene Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride 1,1-Dichloroethylene 1,2-Dichloroethylene (cis Acetone Aluminum Antimony and compounds Arsenic Barium and compounds Beryllium and compounds Bis(2-ethylhexyl)phthalate (DEHP) Cadmium and compounds Chromium III Chromium VI Cobalt Copper and compounds Dieldrin Dimethyl phthalate Endrin Ethylbenzene Fluorine (soluble fluoride Iron Lead Mercury and compounds Methylene chloride Molybdenum Nickel Selenium Silver Toluene Trichloroethylene (TCE Vanadium and compounds Zinc n-Propylbenzene 1,1-Dichloroethylene 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans 2,6-Dinitrotoluene (also see Dinitrotoluene mixture Acetone Barium and compounds Benz[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Bis(2-ethylhexyl)phthalate (DEHP) Bromomethane (Methyl bromide Cadmium and compounds Chloromethane (methyl chloride Chromium III Chromium VI Chrysene Cobalt Copper and compounds Fluoranthene Indeno[1,2,3-cd]pyrene Iron Manganese and compounds Mercury and compounds Methylene chloride Molybdenum Nickel Nitrate Pyrene Tetrachloroethylene (PCE Thallium and compounds Toluene Trichloroethylene (TCE Vinyl chloride Xylenes Zinc 1,2-Dichloroethylene (cis Benzene Trichloroethylene (TCE 1,1,2-Trichloroethane 1,2-Dibromoethane (EDB Benzene Cadmium and compounds Tetrachloroethylene (PCE Trichloroethylene (TCE 1,1,2-Trichloroethane 1,2-Dibromoethane (EDB Benzene Cadmium and compounds Tetrachloroethylene (PCE Trichloroethylene (TCE 1,2,4-Trimethylbenzene Acetone Beryllium and compounds

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Bromodichloromethane Bromoform (tribromomethane Chloroform Cobalt Dibromochloromethane Mercury and compounds Trichloroethylene (TCE Xylenes 1,2,4-Trimethylbenzene 1,2-Dichloroethane (EDC 1,2-Dichloroethylene (cis Benzene Ethylbenzene Naphthalene Toluene Trichloroethylene (TCE Vinyl chloride Xylenes 39105 39106

Confirmed COC: Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE Carbon tetrachloride Benzene Methylene chloride Trichloroethylene (TCE Chloroform Cobalt Dibromochloromethane Mercury and compounds Xylenes 1,2,4-Trimethylbenzene Trichloroethylene (TCE Acetone Beryllium and compounds Bromodichloromethane Bromoform (tribromomethane Benzene Cadmium and compounds 1,2-Dibromoethane (EDB 1,1,2-Trichloroethane Tetrachloroethylene (PCE Trichloroethylene (TCE Benzene Cadmium and compounds 1,2-Dibromoethane (EDB 1,1,2-Trichloroethane Tetrachloroethylene (PCE Trichloroethylene (TCE Chromium III Chromium VI Cobalt Mercury and compounds Vanadium and compounds Zinc Iron Thallium and compounds Benzene 1,2-Dichloroethylene (cis Trichloroethylene (TCE Chloroform 1,4-Dichlorobenzene 1,2-Dichloroethane (EDC Nickel Hexachlorobutadiene Trichloroethylene (TCE Endrin Lead Arsenic Cadmium and compounds Chromium III Chromium VI Cobalt Copper and compounds 1,1-Dichloroethylene 1,2-Dichloroethylene (cis Dieldrin Mercury and compounds Methylene chloride Molybdenum Nickel Vanadium and compounds Zinc Dimethyl phthalate Ethylbenzene Fluorine (soluble fluoride Iron n-Propylbenzene Selenium Toluene Silver Trichloroethylene (TCE Acetone Aluminum Antimony and compounds Barium and compounds Beryllium and compounds Bis(2-ethylhexyl)phthalate (DEHP) Benzene Ethylbenzene Xylenes 1,1,2,2-Tetrachloroethane 1,2,4-Trimethylbenzene Tetrachloroethylene (PCE 1,1-Dichloroethane 1,2-Dichloroethane (EDC Toluene TPH-JET FUEL Lead Cadmium and compounds Manganese and compounds Xylenes Zinc Ethylbenzene Toluene Polychlorinated biphenyls (PCBs Antimony and compounds Lead Perchlorate Chromium III Chromium VI Copper and compounds Nickel Zinc Iron Selenium Polychlorinated biphenyls (PCBs Benzene Benzene 1,2-Dichloroethane (EDC 1,2-Dichloroethylene (cis Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride Benzene 1,2-Dichloroethane (EDC Trichloroethylene (TCE Trichloroethylene (TCE Tetrachloroethylene (PCE Trichloroethylene (TCE 30003-NO 30022-NO 3002501-NO 30027-NO 30195-NO 30196-NO Beryllium and compounds No Contaminants found Trichloroethylene (TCE Polynuclear aromatic hydrocarbons (PAHs Polynuclear aromatic hydrocarbons (PAHs No Contaminants found Tetrachloroethylene (PCE N-Nitrosodimethylamine No Contaminants found No Contaminants found Trichloroethylene (TCE Naphthalene Aluminum Barium and compounds Beryllium and compounds TPH-gas TPH-JET FUEL Perchlorate Perchlorate Explosives (UXO, MEC Perchlorate Polynuclear aromatic hydrocarbons (PAHs Trichloroethylene (TCE N-Nitrosodimethylamine Methyl tertbutyl ether (MTBE Benzene Chloromethane (methyl chloride 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane (EDC 1,1-Dichloroethylene 1,2-Dichloroethylene (cis Methylene chloride N-Nitrosodimethylamine Xylenes 1,4-Dioxane Ethylbenzene Naphthalene Toluene 1,1,2-Trichloroethane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Benzene 1,2-Dichloroethane (EDC 1,2-Dichloroethylene (cis Xylenes Ethylbenzene Naphthalene Toluene 1,2,4-Trimethylbenzene Trichloroethylene (TCE Vinyl chloride Trichloroethylene (TCE Lead Cadmium and compounds Mercury and compounds Nickel Antimony and compounds Cadmium and compounds

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Chloromethane (methyl chloride Chromium III Chromium VI Cobalt Copper and compounds 1,1-Dichloroethylene 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans Manganese and compounds Mercury and compounds Methylene chloride Molybdenum Nickel Nitrate Xylenes Zinc 2,6-Dinitrotoluene (also see Dinitrotoluene mixture Iron Benz[a]anthracene Benzo[b]fluoranthene Benzo[a]pyrene Chrysene Fluoranthene Indeno[1,2,3-cd]pyrene Pyrene Thallium and compounds Toluene Tetrachloroethylene (PCE Trichloroethylene (TCE Vinyl chloride Acetone Barium and compounds Bis(2-ethylhexyl)phthalate (DEHP) Bromomethane (Methyl bromide Arsenic Molybdenum Nickel Antimony and compounds Explosives (UXO, MEC No Contaminants found Beryllium and compounds Beryllium and compounds Polychlorinated biphenyls (PCBs 30011-NO Polynuclear aromatic hydrocarbons (PAHs Trichloroethylene (TCE 1,2-Dichloroethylene (cis 1,2-Dichloroethylene (trans Methyl tertbutyl ether (MTBE Perchlorate Tetrachloroethylene (PCE 30027-NO Vinyl chloride 1,2-Dichloroethylene (cis 1,4-Dioxane N-Nitrosodimethylamine 39105 39106

Potential Description: OTH, SOIL, OTH, OTH, SOIL, OTH, SOIL, SURFW, OTH, SOIL, SURFW, SOIL, OTH, SOIL, OTH, OTH, SOIL, OTH, SOIL, SOIL, SOIL, SOIL, OTH, OTH, SOIL, OTH, OTH, SOIL, OTH, SOIL, IA, OTH, SOIL, SV, OTH, SOIL, SOIL, IA, OTH, SOIL, SV, SV, IA, OTH, OTH, SOIL, OTH, SOIL, OTH, SOIL, OTH, SOIL, OTH, SOIL, OTH, SOIL, OTH, SOIL, SOIL, SOIL, SOIL, SOIL, OTH, SOIL, OTH, SOIL, SV, IA

Alias Name: DOD100117000
Alias Type: GeoTracker Global ID
Alias Name: DOD100117100
Alias Type: GeoTracker Global ID
Alias Name: DOD100117200
Alias Type: GeoTracker Global ID
Alias Name: DOD100117300
Alias Type: GeoTracker Global ID
Alias Name: DOD100117400
Alias Type: GeoTracker Global ID
Alias Name: DOD100117500
Alias Type: GeoTracker Global ID
Alias Name: DOD100117600
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Alias Name: DOD100117900
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Alias Name: DOD100118000
Alias Type: GeoTracker Global ID
Alias Name: DOD100118100
Alias Type: GeoTracker Global ID
Alias Name: DOD100118200
Alias Type: GeoTracker Global ID
Alias Name: DOD100118300
Alias Type: GeoTracker Global ID
Alias Name: DOD100118400
Alias Type: GeoTracker Global ID
Alias Name: DOD100118500
Alias Type: GeoTracker Global ID
Alias Name: DOD100118600
Alias Type: GeoTracker Global ID

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Name:	DOD100118700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100118800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100118900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100119000
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121500

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121800
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Alias Name:	DOD100123800
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Alias Name:	DOD100123900
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100124100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100124200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100124300
Alias Type:	GeoTracker Global ID

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Name:	DOD100124400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100124500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100124600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100124700
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Alias Name:	DOD100125000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100125100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100125200
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Alias Name:	DOD100126100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100126200
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127200

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100128000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100128100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100128200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100128300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100128400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100128500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100128600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100128700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100128800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100128900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100129000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100129100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100129200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100129300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100129400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100129500
Alias Type:	GeoTracker Global ID
Alias Name:	EDWARDS AFB
Alias Type:	Alternate Name
Alias Name:	CA1570024504
Alias Type:	EPA Identification Number
Alias Name:	110033616120
Alias Type:	EPA (FRS #)
Alias Name:	DOD100074300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100074400
Alias Type:	GeoTracker Global ID

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Name:	DOD100074500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100074600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100075900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100076000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100076100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100076200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100077500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100077600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100077700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100077800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100079100
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Alias Name:	DOD100079200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100079300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100079400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100080700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100080800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100080900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100081000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100082300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100082400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100082500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100082600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100083900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100084000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100084100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100084200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100085500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100085600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100085700

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100085800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100087100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100087200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100087300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100087400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100088800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100088900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100089000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100089100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100090400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100090500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100090600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100090700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100097600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100097700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100097800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100097900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098600
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100099000
Alias Type:	GeoTracker Global ID

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Name:	DOD100099100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100099200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100099300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100099400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100099500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100099600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100099700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100099800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100099900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100900
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Alias Name:	DOD100101000
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Alias Name:	DOD100101100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101400
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101900

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100102000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100102100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100102200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100102300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100102400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100102500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100102600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100102700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100102800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100102900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100103000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100103100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100103200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100103300
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Alias Name:	DOD100103600
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Alias Name:	DOD100103700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100103800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100103900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100104000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100104100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100104200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100104300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100104400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100104500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100104600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100104700
Alias Type:	GeoTracker Global ID

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Name:	DOD100104800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100104900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100105000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100105100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100105200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100105300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100105400
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100105600
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Alias Name:	DOD100105700
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Alias Name:	DOD100105800
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Alias Name:	DOD100106100
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Alias Name:	DOD100106200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100106300
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Alias Name:	DOD100106400
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Alias Name:	DOD100106900
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Alias Name:	DOD100107100
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Alias Name:	DOD100107200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100107300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100107400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100107500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100107600

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100107700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100107800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100107900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100108000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100108100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100108200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100108300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100108400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100108500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100108600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100108700
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Alias Name:	DOD100108800
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Alias Name:	DOD100108900
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Alias Name:	DOD100109100
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Alias Name:	DOD100109900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100110000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100110100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100110200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100110300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100110400
Alias Type:	GeoTracker Global ID

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Name:	DOD100110500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100110600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100110700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100110800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100110900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100112000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100112100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100112200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100112300
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Alias Name:	DOD100112400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100112500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100112600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100112700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100112800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100112900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100113000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100113100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100113200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100113300

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100113400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100113500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100113600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100113700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100113800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100113900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100115000
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Alias Name:	DOD100115100
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Alias Name:	DOD100115200
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100115600
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Alias Name:	DOD100115700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100115800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100115900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116100
Alias Type:	GeoTracker Global ID

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Name:	DOD100116200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100129600
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Alias Name:	DOD100130100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100130200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100130300
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Alias Name:	DOD100130400
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Alias Name:	DOD100130500
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Alias Name:	DOD100130600
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Alias Name:	DOD100130700
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Alias Name:	DOD100130800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100130900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100131000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100131100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100131600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100131700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100131800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100131900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100132000

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100132100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100132200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100132300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100132400
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Alias Name:	DOD100132500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100132600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100132700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100132800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100132900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100133000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100133100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100133200
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Alias Name:	DOD100134200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100134300
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Alias Name:	DOD100134400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100134500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100134600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100134700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100134800
Alias Type:	GeoTracker Global ID

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Name:	DOD100134900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100135000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100135100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100135200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100135300
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Alias Name:	DOD100135400
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Alias Name:	DOD100135500
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Alias Name:	DOD100136700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100136800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100136900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100137000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100137100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100137200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100137300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100137400
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Alias Name:	DOD100137600
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Alias Name:	DOD100137700
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Alias Name:	DOD100137800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100137900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100138000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100138100

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100138200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100138300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100138400
Alias Type:	GeoTracker Global ID
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Alias Name:	DOD100138600
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Alias Name:	DOD100138700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100138800
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EDWARDS AIR FORCE BASE (Continued) **1000155217**

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EDWARDS AIR FORCE BASE (Continued) **1000155217**

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Completed Info:

Completed Area Name:	4/9 - South AFRL
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	03/30/2018
Comments:	Letter Addendum to the 2016 South AFRL Well Installation Report, Well 13-MW52
Completed Area Name:	7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name:	Site 3
Completed Document Type:	Operations and Maintenance Report
Completed Date:	11/28/2018
Comments:	Not reported
Completed Area Name:	8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name:	Site 25
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	08/03/2018
Comments:	Site 25 USGS Long-Screen Wells Evaluation Workplan. Although this document wasn't provided in final form until August 3, 2018, it was actually finalized by the USGS in late April or early May 2018. DTSC input was informal and provided via a very accelerated review schedule.
Completed Area Name:	2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Implementation Workplan
Completed Date:	04/20/2018
Comments:	Document has been finalized.
Completed Area Name:	2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	09/21/2018

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Comments:	Final OU2 Sites 5/14 Annual Remedial Action Status Report submitted by Air Force on 9/21/18.
Completed Area Name:	4/9 - South AFRL
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	09/24/2018
Comments:	Site 37 SVE O&M and Building 8595 Vapor Intrusion Monitoring Report for 2017
Completed Area Name:	4/9 - Soil and Debris Sites
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction Monitoring Report
Completed Date:	07/16/2018
Comments:	Soil and Debris Sites 2017 LUC Inspection and Maintenance Report. DTSC reviewed and had no comments.
Completed Area Name:	1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Completion Report
Completed Date:	06/15/2018
Comments:	Letter Report Abandonment and Replacement of OU 1 Wells. DTSC reviewed and had no comments.
Completed Area Name:	6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction Monitoring Report
Completed Date:	06/21/2018
Comments:	OU 6 NASA Annual 2017 Land Use Control Report
Completed Area Name:	4/9 Mars Blvd Sites
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	07/20/2018
Comments:	Mars Blvd Sites 2016 Groundwater Monitoring Report
Completed Area Name:	1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name:	Site 21
Completed Document Type:	Correspondence
Completed Date:	05/18/2017
Comments:	Because of the evidence of a CERCLA hazardous substances release, ty agreement between the RPMs, Site 21 has been transferred from the Air Force’s Compliance Restoration Program ("Fuels Program") back to the CERCLA program.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Federal Facility Agreement
Completed Date:	10/31/1990
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	08/24/1981
Comments:	Facility Identified: EPA Superfund Notification List.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/26/2007
Comments: Not reported

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 10/12/2009
Comments: Not reported

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 10/22/2008
Comments: The Final OU 7 RI Report covers 8 sites that moved past the PA/SI phase. Of the 8 sites, 4 sites (Sites 267, 269, 272, and 293) require no further action after review and agreement by the RPMs. Four sites (Sites 3, 280, 294, and 339) will continue on into the Feasibility Study phase.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc. - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 01/11/2010
Comments: This is the FS for Sites 280, 294, and 339. The Air Force has evaluated clean-up remedies for the contamination in soil at these sites. DTSC has identified some potential human health risk assessment procedure issues and will work with the Air Force to resolve these.

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 10/19/2006
Comments: The OU-6 ROD addresses six sites (N1, N2, N3, N4, N7, and AOC N14). The selected remedy OU6 Soils for all six sites is No Action. The risks associated with the soils were all within the acceptable risk range. Three of the sites (N2, N3, and N7) are the origin of the OU wide commingled groundwater plume. The groundwater contaminants are chlorinated solvents (TCE, cis-1,2 DCE, TCA, etc) and aromatic hydrocarbons (BTEX). The selected remedy for the groundwater is Land Use Controls to prevent exposure, In Situ Chemical Oxidation for chlorinated hydrocarbons, Enhanced Natural Attenuation for aromatic hydrocarbons, and monitored natural attenuation (plume containment) for the dissolved plume. DTSC signed the Declaration page on 10/19/06 and forwarded signature page to Water Board who provided the final signature on 12/28/06.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 03/03/2006
Comments: On March 3, 2006, DTSC concurred with the Final Focused Feasibility Study to support a Technical Impracticability Evaluation/ Containment Zone Application for the South Air Force Research Laboaratory (AFRL)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

in OU 4 and OU 9. Due to the presence of pure phase trichloroethene (TCE) and tetrachloroethene (PCE) in fractured bedrock at depths exceeding 250 feet, the Focused Feasibility Study recommends requesting a technical impracticability waiver for meeting the cleanup standard of the Maximum Contaminant Level for drinking water (MCL) and applies for a Containment Zone under the State Water Code.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 08/04/2009
Comments: This ROD documents the cleanup action for groundwater for Sites 5, 14, 76, and 86; and the soil cleanup action for Site 29. The remedy to clean up groundwater at combined Sites 5 and 14 is the implementation of in-situ biotreatment to destroy floating free product, injection of chemical reagents to remediate dissolved chlorinated solvents, the continued operation of the Site 14 extraction/treatment system, and the implementation of Land Use Controls to limit potential human exposure. The remedy to clean up groundwater at Sites 76 and 86 is to inject chemical reagents and in-situ biological components, and implement LUCs to limit potential human exposure. The remedy to clean up soil at Site 29 is to remove surface debris, grade the site and install a cover which will contain a soil erosion stabilizer agent, enhance the stormwater management system, install fencing, and implement LUCs. Groundwater monitoring will be performed in perpetuity or until sites are cleaned. DTSC signed the ROD on 7/8/09.

Completed Area Name: 426
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/06/2004
Comments: RA - S426 -- No Further Action recommendation following the completion of a removal action at Site 426 in OU-7, documented in the Site Interim Removal Action Report, March 2004. Site 426 is an historic WWII Chemical Warfare Material Storage Yard near dormitories where investigation delineated four possible "trenches." An excavation removal action conducted in 2002 identified no hazardous contaminants, only four sets of concrete "rails" which were removed.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 09/26/2007
Comments: Selected Remedy included a waiver of the Drinking Water Cleanup Standard and implementation of land use controls and a "Containment Zone." High Concentrations of TCE and PCE exist in fractured bedrock. Feasibility Study justified a technical impracticability waiver for aquifer clean up. Soil and Groundwater will have land use controls and will be monitored to ensure contaiminants do not migrate past the "Containment Zone." Final ROD document delivered 9/5/2007. Approval signatures from Air Force, USEPA, DTSC, and RWQCB provided on 9/11, 9/24, 9/26, and 10/1/2007 respectively.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report

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Completed Date:	10/21/2008
Comments:	DTSC has concurred with finalizing the FS allowing OU 1 to move to the Proposed Plan stage. Thirty six of the 48 sites have been categorized as "No Further Action" either because contamination was not found or the contamination was petroleum-only (which moves these sites to the jurisdiction of the Kern County Health Dept under RWQCB authority). Site 45 has been sufficiently remediated and assigned NFA. As only VOCs are contaminants of concern, the remaining 11 sites have been grouped into the "North Plume/Site 19 Plume", the "South Plume" and the "Site 44 Plume". Remedial alternatives were designed around the remediation of these three plumes.
Completed Area Name:	6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name:	Not reported
Completed Document Type:	Feasibility Study Report
Completed Date:	10/15/2004
Comments:	This FS summarizes the backgrounds, plume characteristics, and remedial action alternatives evaluated for sites recommended for remedial action within Operable Unit 6 (OU-6). The report includes preliminary cleanup goals, technical approach comparisons, and cost comparisons of applicable remedial alternatives. Sites in OU-6 are not currently used for residential purposes, nor is such use anticipated; therefore, the FS focuses on industrial use considerations. The preferred alternative recommended for the Proposed Plan is Source Control and Hydrologic Control with Groundwater Monitoring.
Completed Area Name:	OU-3 Basewide Homestead Wells
Completed Sub Area Name:	Not reported
Completed Document Type:	Record of Decision
Completed Date:	11/06/2003
Comments:	RAP - OU3 -- The U.S. Environmental Protection Agency, the U.S. Air Force, and the State of California have selected No-Action as the remedy for Edwards AFB Operable Unit (OU)3. OU3 is defined as the basewide water wells and originally include 660 potential well sites determined from historical records and archival research. Initial site investigations determined that eight of the 660 wells were suspected as potential contaminant pathways to groundwater and were retained in OU3 for further evaluation. Subsequent investigations determined that none of the eight wells retained in OU3 had contributed to any groundwater contamination and, furthermore, no soil contamination was found in the vicinity of any of the wells.
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	S172
Completed Document Type:	Operations and Maintenance Report
Completed Date:	06/30/2003
Comments:	OM - S172 -- In January 2000, the Air Force implemented an interim removal action (IRA) consisting of soil vapor extraction (SVE) at Site 172, the outdoor waste sump at Building 8595 in Operable Uit 4, Air Force Research Laboratory. The primary objective of the IRA at Site 172 is to remove contaminant mass and reduce the further migration of volatile organic compounds (VOCs) from contaminated soil into the Site 37 groundwater plume. The SVE system operated with one well initially; two more wells were added in August 2000. Four additional extraction wells were connected to the system, which was brought on line September 12, 2002, extracting vapor from seven

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wells. The cumulative mass of contaminants removed during the reporting period was 472 pounds. Vapor flow rates averaged approximately 42 standard cubic feet per minute (scfm) during January to August 2002, and 84 scfm during September to December 2002 following expansion of the well field from three to seven wells. The SVE operating cost for the year 2002, excluding labor, was $95,172.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 133
Completed Document Type: Removal Action Completion Report
Completed Date: 06/27/2003
Comments: RA - S133 -- Construction of the Groundwater Exttraction Treatment System was completed between 01/09 and 04/18/2001 with testing of the system during the week of 04/23/2001 and startup on 04/30/2001. The system includes three groundwater extraction wells and an aboveground treatment system that uses liquid-phase granular activated carbon to remove volatile organic compounds (VOCs) in the extracted groundwater prior to discharge to the Air Force Research Laboratory (AFRL) sewage treatment plant. The system is designed for a maximum capacity of 50 gallons per minute (gpm); however, the volume of water extracted is limited by a discharge permit to 20 gpm.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Removal Action Completion Report
Completed Date: 05/13/2003
Comments: RA - STE25 -- This report summarizes the operational maintenance and system sampling data collected during the period from December 28, 2001 through July 1, 2002 for the Site 25 Groundwater Extraction and Treatment System (GETS), in Operable Unit No. 8. During the reporting period, approximately 4,483,000 gallons of groundwater were extracted and treated by the Site 25 GETS at an average folwrate of 19.9 gallons per minute. 20.5 pounds (lbs.) of trichloroethene (TCE) were removed from treated groundwater. As of July 1, 2002, the GETS removed a cumulative total of 28.7. lbs. of TCE from treated groundwater. The treatment system effluent is discharged to the base sanitary sewer under an industrial wastewater discharge permit issued by Edwards Air Force Base (AFB).

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL32
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/28/2002
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL31
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/28/2002
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL30
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/28/2002
Comments: PEA - PRL30 -- No Further Investigation (NFI) documents signed by the Edwards Air Force Base Remedial Project Managers for Operable Unit 7

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- Basewide Miscellaneous Area of Concern (AOC) Number 400. The NFI determination for this site-specific action means that the AOC has been adequately investigated and that the results justify the determination. PEA - PRL31 -- No Futher Investigation (NFI) documents signed by the Edwards Air Force Base Remedial Project Managers for Operable Unit 1 - Main Base Flight Line Site Number 65. The NFI determination for this site-specific action means that the Site has been adequately investigated and that the results justify the determination. PEA - PRL32 -- No Further Investigation (NFI) documents signed by the Edwards Air Force Base Remedial Project Managers for Operable Unit 2 - Ould South Base Site Number 96. The NFI determination for this site-specific action means that this Site has been adequately investigated and that the results justify the determination.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL29
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/29/2002
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL28
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/29/2002
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL27
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/29/2002
Comments: PEA - PRL27 -- No Further Investigation (NFI) documents signed by the Edwards Air Force Base Remedial Project Manager for Operable Unit 4- Air Force Research Laboratory Site Number 146 and for Operable Unit 9 - East Air Force Research Laboratory Site Number 376. The NFI determination for these site-specific actions means that these Sites have been adequately investigated and that the results justify the determination. PEA - PRL28 -- No Further Investigation (NFI) documents signed by the Edwards Air Force Base Remedial Project Manager for Operable Unit 7 - Basewide Miscellaneous Site Number 353 and Area of Concern (AOC) Numbers 268,368 and 371. The NFI determination for these site-specific actions means that these Sites/AOCs have been adequately investigated and that the results justify the determination. PEA - PRL29 -- No Further Investigation (NFI) documents signed by the Edwards Air Force Base Remedial Project Manager for Operable Unit 4 - Air Force Research Laboratory Site Number 7 and 146, and Area of Concern (AOC) Number 167 and 174. The NFI determination for these site-specific actions means that these Sites/AOCs have been adequately investigated and that the results justify the determination.

Completed Area Name: 426
Completed Sub Area Name: Not reported
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 10/11/2001
Comments: RAW - S426 -- RAP of Edwards Air Force Base operable unit 7, site 426, includes both the Engineering Evaluation/Cost Analysis and

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Action Memorandum. The selected remedy for the chemical warfare site is containment excavation.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL26
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/13/2001
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL25
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/13/2001
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL24
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/13/2001
Comments: PEA - PRL24 - Preliminary Endangerment Assessment (PEA) of Edwards Air Force Base, Operable Unit 4, sites 7 and 174 and area of concern 167, determined that these sites and of concern pose no environmental or Human Health Threat. This document administratively removes these sites from further investigation. PEA - PRL25 -- Preliminary Endangerment Assessment (PEA) Edwards Air Force Base, Operable Unit 7, Sites 295, 434, 435, 436 441 and area of concern 457, determined that these sites and area of concern pose no Environmental or Human Health Threat. This document administratively removes these sites from further investigation. PEA - PRL26 -- Preliminary Endangerment Assessment (PEA) Edwards Air Force Base, Operable Unit 9, Site 179, determined that this site poses no environmental or Human Health Threat. This document administratively removes this site from further investigation.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL23
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/17/2001
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL22
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/17/2001
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL21
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/17/2001
Comments: PEA - PRL21 -- Concurrence provided on PEA equivalent document for OU7, AOCs 261, 262, 263, 264, and 265. PEA - PRL22 -- Concurrence provided on PEA equivalent document for OU10, Site 279. PEA - PRL23 -- Concurrence provided on PEA equivalent document for OU2, AOCs 458, 459, and 460.

Completed Area Name: Sites With No Operable Unit

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Completed Sub Area Name: PRL20
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/11/2001
Comments: PEA - PRL20 -- Concurrence provided on PEA equivalent documents for OU-5 sites 229, 235, 236, 238, 348, and 349 and AOCs 187, 190-192, 230, 246, 251, 253, 281, 283, 287, 288, 403, 420 423.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL19
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/08/2001
Comments: PEA - PRL19 -- concurrence provided on PEA equivalent document for OU4, Site 186.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 12/04/2000
Comments: RAW - STE25 -- Concurrance on the proposed interim removal action to treat groundwater contaminated with tetrachloroethylene and N-Nitrosodimethylamine. Extracted groundwater will be treated by carbon absorption and discharged to EAFB's sanitary sewer.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL18
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/15/2001
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL17
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/15/2001
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL16
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/15/2001
Comments: PEA - PRL16 -- Concurrence provided on PEA equivalent documents for Operable Unit #4, Site 150 and Area of Concern 168. PEA - PRL17 -- Concurrence provided on PEA equivalent documents for Operable Unit #7 Sites 4 and 34 and Areas of Concern 388 and 394. PEA - PRL18 -- Concurrence provided on PEA equivalent documents for Operable Unit #8,Site 2.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL15
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/07/2001
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL14
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/07/2001
Comments: PEA - PRL14 -- Concurrence provided on PEA equivalent documents for

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Operable Unit #10, Area of Concern 243. PEA - PRL15 -- Concurrence provided on PEA equivalent documents for Operable Unit #1, Sites 46, 55 and 366.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL13
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/08/2001
Comments: PEA - PRL13 -- Concurrence provided on PEA equivalent documents for Operable Unit #4, Site 12 and Areas of Concern 121, 155 and 164.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: STE18
Completed Document Type: * Remedial or Removal Design
Completed Date: 08/02/1999
Comments: DES - STE18 -- Approval of dual extraction system design for interim removal action to treat TCE contaminated soil and groundwater.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL12
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/21/2000
Comments: PEA -- Concurrance provided on PEA equivalent documents for OU-3, sites 30,412,413,414, and 415.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL11
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/05/2000
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL10
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/05/2000
Comments: PEA - PRL10 -- Concurrance provided on PEA equivalent documents for OU-4, areas of concern 122, 141, 170, and 171. PEA - PRL11 -- Concurrance provided on PEA equivalent document for OU-5, area of concern 233.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL9
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/29/1999
Comments: PEA - PRL9 -- Concurrence provided on PEA equivalent documents for OU-2, Sites 105, 109, 111, and 364.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL8
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/29/1999
Comments: PEA - PRL8 -- Concurrence provided on PEA equivalent documents for OU-3, Sites 409, 410, 411, and 416.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL7
Completed Document Type: Preliminary Endangerment Assessment Report

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Completed Date: 02/26/1999
Comments: PEA - PRL7 -- Concurrance provided on PEA - equivalent documents for OU-10 sites 228, 232, and 256.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: S223
Completed Document Type: * Remedial or Removal Design
Completed Date: 02/02/1999
Comments: DES - S223 -- Design for installing, operating and evaluating the SVE and air sparging systems at Site 223 in OU-2.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT14
Completed Document Type: * Remedial or Removal Design
Completed Date: 02/01/1999
Comments: DES - SIT14 -- Design for installing, operating, and evaluating the groundwater extraction and treatment system at Site 14 in OU-2.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: B8595
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/28/1999
Comments: PEA - B8595 -- Investigation and closure of AOC's 170-172 in Building 8595 in OU-4.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL6
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/01/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SRAM
Completed Document Type: Removal Action Completion Report
Completed Date: 08/03/1998
Comments: RA - SRAM -- Time critical removal action taken to destroy short range attack missile motor.

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 04/27/1999
Comments: OM - OU-6 -- APPROVAL OF THE O&M PLAN FOR OU-6 SITES, N2, N3 AND N7.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: S133
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 10/17/2000
Comments: RAW - S133 -- The proposed Interim Removal Action consists of the extraction of groundwater contaminated with solvents, primarily trichloroethlyene, and treatment by liquid phase granular activated carbon. Treated effluent will be discharged to the Base's sanitary sewer system. A total of 43,200 gallons per day of groundwater will be extracted and treated.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL5

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Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/01/1998
Comments: PEA - PRL5 -- EAFB has adequately investigated the OU-5 NASA Jet Propulsion laboratory PRL Sites 195, 200, 201, 243, 289 and 350 (collectively, PRL5). DTSC finds that the documents are equivalent to a PEA document. PEA - PRL6 -- EAFB has adequately investigated the OU-2 Old South Base PRL Sites 75, 77, 89, 95, 97 and 99 (collectively, PRL6). DTSC finds that the documents are equivalent to a PEA document.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL4
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/29/1998
Comments: PEA - PRL4 -- Edwards AFB has adequately investigated the OU-2 Old South Base PRL sites 72, 73, 78, 79, 84, 87, 98, 100, 101, 104, 290, 291 and 417 (collectively, PRL4) DTSC finds that the documents are equivalent to a PEA document.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL1
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/12/1996
Comments: Not reported

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: S223
Completed Document Type: Removal Action Completion Report
Completed Date: 06/01/1999
Comments: RA - S223 -- Implementation of a SVE/Air sparging system to remediate fuel contaminated soil and groundwater.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 14
Completed Document Type: Removal Action Completion Report
Completed Date: 06/11/1999
Comments: RA - SIT14 -- Implementation of a GW extraction/treatment system to remediate TCE contaminated GW. System implemented consists of 4 extraction wells and an above ground treatment system using carbon adsorption.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT29
Completed Document Type: Removal Action Completion Report
Completed Date: 06/04/1998
Comments: RA - SIT29-- Removal action consisted of fencing the site for access restriction and conducting long - term groundwater monitoring.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: S223
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 05/07/1998
Comments: RAW - Site 223 -- Petroleum hydrocarbon contamination in soil and groundwater will be treated using soil vapor extraction/vapor treatment for soils and air sparging for groundwater. Monitoring of the system will also be required.

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Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	SIT14
Completed Document Type:	*Action Memorandum (if <$1M)
Completed Date:	05/07/1998
Comments:	RAW - SITE14 -- Groundwater at Site 14 contaminated with petroleum hydrocarbon, volatile organics, and semi-volatile organcis will be treated via extraction and treatment by liquid-phase granular activated carbon adsoption, then reinjected into the groundwater aquifer

Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	SIT29
Completed Document Type:	*Action Memorandum (if <$1M)
Completed Date:	05/07/1998
Comments:	RAW - SIT29 -- The South Base abandoned landfill has been fenced and will be monitored.

Completed Area Name:	2 - Operable Unit 2, South Base
Completed Sub Area Name:	Not reported
Completed Document Type:	Feasibility Study Report
Completed Date:	02/09/2006
Comments:	The FS evaluated alternatives for each site in Operable Unit 2 - South Base. The preferred remedial alternatives for each site are summarized below: Sites 5/14 Contaminant Plume In-situ treatment of the commingled fuel and solvent contamination in groundwater with the maintenance of plume containment, long-term monitoring, and institutional controls. Pilot testing will be conducted to evaluate the appropriate method for in-situ treatment. Sites 76 and 86 Active groundwater restoration through the use of in-situ treatment and institutional controls for groundwater contaminated with trichloroethylene. Pilot testing will be conducted to evaluate the appropriate method for in-situ treatment. Site 29 Removal of recently emplaced surface debris, institutional controls, storm water controls, and long-term monitoring for the two former landfill areas. Site 69 Removal and on-base waste disposal of buried and surface debris from the Old South Base North Landfill. Excavated materials will be consolidated within the Main Base active landfill. Sites 81 and 102 Removal and off-site treatment or recycling for skeet target fragments from two former skeet ranges located in the Old South Base area.

Completed Area Name:	2 - Operable Unit 2, South Base
Completed Sub Area Name:	Site 5
Completed Document Type:	Removal Action Completion Report
Completed Date:	12/10/1997
Comments:	The Dual Extraction System at the source area of the Sites 5 and 14 plume is in place and operational. The system addresses "Hot Spot" soil and groundwater contamination from leaking USTs.

Completed Area Name:	MULTIPLE SITES
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	06/30/1997
Comments:	RA Site 7 & AOC 167. Beryllium soil contamination consolidated in an on-site waste management unit. Site is capped and revegetated and its location recorded in the Base Comprehensive Plan.

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Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 16
Completed Document Type: Removal Action Completion Report
Completed Date: 06/30/1997
Comments: SIT16 DES Removal Action Completion - Initial operation of the Dual Extraction System began on March 18, 1997. The system is considered to be fully operational for long term use. The DES is extracting soil vapor and groundwater contaminated with JP-4 from the Building 1820 JP-4 Fuel Spill.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT45
Completed Document Type: Removal Action Completion Report
Completed Date: 05/22/1997
Comments: Not reported

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 5
Completed Document Type: *Action Memorandum (if >$1M)
Completed Date: 06/30/1997
Comments: RAP, OU-2 Site 5/15 Source Area Action Memorandum. Dual Phase Extraction selected for VOC and Fuel contamination in soil and groundwater.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT18
Completed Document Type: Remedial Action Plan
Completed Date: 05/29/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT16
Completed Document Type: Remedial Action Plan
Completed Date: 09/30/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT45
Completed Document Type: Remedial Action Plan
Completed Date: 09/30/1996
Comments: Not reported

Completed Area Name: MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 09/30/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 05/31/1994
Comments: PPP - DTSC approved a Public Participation Plan (revision) for Edwards Air Force Base.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 16

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Completed Document Type: Removal Action Completion Report
Completed Date: 01/30/1993
Comments: Not reported

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/30/1993
Comments: RA (OU1BV): Removal of JP-4 fuel in the vadose zone by injection of air underground to provide oxygen to native bacteria which feed on petroleum hydrocarbons. This process is being employed at Site 16 - Fuel Spill and at Site 21 - Jet Engine test cell facility. RA (OU1FP): Installation, development and activation of six scavenger pumps to remove free product from the groundwater surface at Site 16.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/30/1992
Comments: RA (OU1PR): Construction of a new JP-4 jet fuel pipeline to replace existing pipeline from fuel tank farm to flight line (4.5 miles) with double-walled pipe and leak detectors. No contaminated soil was removed with this action.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 04/30/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/10/1987
Comments: Site Screening Done.

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Proposed Plan
Completed Date: 06/01/2005
Comments: No significant public comments received.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 58
Completed Document Type: Removal Action Workplan
Completed Date: 03/25/2005
Comments: This IRA Work plan includes additional characterization to delineate free product jet fuel and installation of a Vapor Extraction System to remediate soil and groundwater and removal of free product.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/23/2005
Comments: Final approval letter sent.

Completed Area Name: 2 - Operable Unit 2, South Base

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Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 11/09/2004
Comments: Final RI Report

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site CWM-A
Completed Document Type: Feasibility Study Report
Completed Date: 09/14/2007
Comments: Site 442 CWM concurrence letter sent 9/14/07.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site CWM-A
Completed Document Type: Remedial Investigation Report
Completed Date: 08/04/2006
Comments: Final Report received 7/10/2006. Originally 27 sites/AOCs. RPMs agreed that 24 sites and 2 AOCs posed minimal risk to human health and environment due to CWM-related contamination and were either NFA or administratively closed under CERCLA in the Site Inspection phase. DTSC concurrance on Final document by email 8/4/2006. Two sites, Site 426 and Site 442, to be carried forward.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site CWM-A
Completed Document Type: Proposed Plan
Completed Date: 05/01/2008
Comments: Final version received 5/1/2008. Public comment period ended 6/16/2008.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site CWM-A
Completed Document Type: Record of Decision
Completed Date: 09/25/2009
Comments: This ROD is for the Chemical Warfare Materiel Operable Unit, where miscellaneous former chemical warfare materials were buried in several waste cells at Sites 442-1, -2, and -3. Chemical wastes are not thought to be present in these waste cells, but as a safety precaution, no invasive sampling was performed. Furthermore, the suspected materials are believed to have degraded since disposal. However, as a precaution, a protective remedy was selected. The selected remedy includes grading to redirect surface drainage to limit infiltration, an envirotranspiration surface cap, long term monitoring and land use controls. This ROD also selects "No Further Action" for Site 426 which was once thought to contain chemical warfare materials.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 10/22/2008
Comments: DTSC concurrence on "Final" Operable Unit 5/10 RI Summary Report. 87 sites were identified within OU 5/10, the sites were classified into the following categories: 35 sites were removed from the CERCLA process as requiring No Further Investigation following the PA/SI phase; 15 sites were removed from the CERCLA process on the condition that contaminated soil or groundwater be addressed as part of remedial actions for Site 282 or 285; 23 sites were removed from the

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CERCLA process as petroleum only sites. Fourteen sites (Sites 1, 231, 233, 239, 240, 242, 274, 275, 278, 279[soil only], 282[groundwater only], 285, 287[groundwater only], and 422[groundwater only]) were evaluated in this document and will continue on through the FS.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Not reported
Completed Document Type: Proposed Plan
Completed Date: 06/28/2006
Comments: DTSC concurred with the OU2 Proposed Plan concurrence letter. Air Force proposes the following remedies for groundwater at Sites 5, 14, 76, and 86; soil and debris at sites 29, 29, 69, 81, and 102; and NFA remedies at the last four sites, Sites 78, 79, 96, and Area of Concern (AOC) 417

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 10/25/2006
Comments: DTSC concurrence with the OU-4/9 Soil and Debris Sites Feasibility Study Report. Preferred remedial alternatives include: Site 36 - Land Use Controls only (vehicle gate, warning signs, and land use restrictions. Site 312 - clean closure of the site to residential use standards, off-site disposal of excavated soil and concrete. Site 318 - Land Use Controls. Sites 6 and 113 - Expand existing LUCs and install additional fencing. Site 115 - expand existing LUCs and backfill silos with clean soil and cap with concrete.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Proposed Plan
Completed Date: 03/28/2006
Comments: EPA and DTSC concurred with final version of the OU-4 AFRL Proposed Plan.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Not reported
Completed Document Type: Proposed Plan
Completed Date: 08/03/2007
Comments: Final document concurrence letter sent 8/3/07. No Further Action proposed for Sites 7, 26, 150, 153, 166, 172, 329, and 396, AOCs 170 and 171. Actions required for Sites 13, 36, 167, 312, 318, 6 and 113, and 115. Actions include continued groundwater monitoring, fencing, LUCs to prohibit residential uses and restrict industrial/construction uses.

Completed Area Name: 4/9 - Soil and Debris Sites
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 09/04/2008
Comments: Final ROD addresses the soil and debris media at 16 sites and two areas of concern (AOCs) located within OUs 4 and 9 and also the groundwater medium at Sites 6 and 113. Further Action required for the following sites: OU4 (Sites 13, 36, 167, 312, and 318), OU9 (Sites 6, 113, and 115). Interim remedial actions have reduced formerly high contaminant concentrations to levels acceptable for unrestricted use at Sites or AOCs 7, 26, 153, 166, 170, 171, 172, and

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396. These sites will be Certified. No further action determinations were made for Sites 150 and 329 where contaminants were below unrestricted use levels.

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 01/15/2009
Comments: This Focused Feasibility Study supports a technical impracticability (TI) evaluation and designation of a containment zone (CZ) for groundwater plumes at Sites 162 and 461 at the Air Force Research Lab, Edwards AFB. Chemicals of Concern are present in fractured bedrock at levels that pose an unacceptable risk to human health and the environment, however this FS concludes that it is impracticable to remove the COCs and recommends measures to prevent exposure to contaminated soil and groundwater.

Completed Area Name: 9 - Air Force Research Lab - East
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 02/08/2006
Comments: DTSC concurrence with Final document, no letter sent. Of the 46 original sites in OU-9, 36 sites have been excluded from the CERCLA process and the 10 remaining sites are recommended for remedial action. 29 Sites were recommended for NFA in the Site Inspection Phase, 6 are managed under the UST program, and 1 site remains active. The 10 remaining sites include: Sites 6 and 113 (Abandoned Mine Shafts used for propellant waste disposal) contain waste left in place that is unsafe to investigate, and eight groundwater plumes at sites 27, 115, 116, 125, 127, 178, 321, and 325.

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/07/2006
Comments: DTSC concurred with RI Summary Report. Site Inspection phase eliminated nine sites from the CERCLA process as NFA. Eight sites are recommended for Feasibility Study.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/03/2009
Comments: This document presents the work to be peformed to monitor the remedies presented in the OUs 4/9 South AFRL Record of Decision. DTSC worked closely with the document development; all of DTSC concerns have been addressed.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 5
Completed Document Type: Monitoring Report
Completed Date: 04/17/2006
Comments: DTSC concurred with annual monitoring report and recommendations for continued operation.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285

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Completed Document Type: Monitoring Report
Completed Date: 03/17/2006
Comments: Concur with Recommendation to continue operation and monitoring.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 312
Completed Document Type: Remedial Investigation Workplan
Completed Date: 04/17/2006
Comments: DTSC concurred with workplan.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 37
Completed Document Type: Treatability Study Report
Completed Date: 04/17/2006
Comments: DTSC final concur letter.

Completed Area Name: 9 - Air Force Research Lab - East
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/21/2005
Comments: DTSC concurred without comment

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 272
Completed Document Type: Remedial Investigation Workplan
Completed Date: 07/13/2006
Comments: Document not reviewed by DTSC. Work proceeded without DTSC comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Base / Site Management Plan
Completed Date: 03/28/2006
Comments: December 2005 Submittal of July-Sept. 2005 Strategy and Status Report

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 66
Completed Document Type: Removal Action Completion Report
Completed Date: 04/26/2006
Comments: DTSC concurred with final Site 66 Treatability Study Report for the Dual Extraction System without comment. SVE System removed 114907 lbs of hydrocarbons before being shut down in February 2005. 4017 lbs were removed during Pilot from vapor and free product.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 36
Completed Document Type: Removal Action Completion Report
Completed Date: 05/15/2005
Comments: The former Wastewater Holding Tank and piping, Building 8525 were removed in Aug. 2004. Approximatley 10 cubic yards of perchlorate contaminated soil was removed from beneath the tank for off-site disposal. Residual perchlorate is the only constituent of concern in the soil. Groundwater contains TCE, PCE, DCE, NDMA, and perchlorate. The groundwater will be managed under the OU-4/9 AFRL Arroyos area and Site 162.

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Document Type: Technical Report
Completed Date: 08/03/2007
Comments: Final document concurrence letter sent 8/3/07.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 37
Completed Document Type: Removal Action Completion Report
Completed Date: 05/01/2000
Comments: Construction complete for the Groundwater Extraction and Treatement System (GETS) at Site 37. Primary Chemical of Concern is PCE. Extraction system began operation on 1/25/1999, and consists of groundwater extraction, liquid phase GAC, and discharge to the sewer.

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 02/16/2008
Comments: DTSC concured with Final Remedial Action Phase 2 Work Plan for OU 6 and finds it acceptable for the Remedial Design to implement Phase 2 of the Remedial Action selected by the September 2006 Record of Decision for Edwards AFB OU 6

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 04/24/2009
Comments: This report documents the first part of Phase II of the implementation of the groundwater cleanup remedy. Phase I was the implementation of a managed Land Use Control program. Phase II comprises the injection and monitoring of chemical oxidants into groundwater. Results are encouraging as VOCs were reduced in portions of the plume. Follow-up injection/monitoring will be performed later in 2009.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/19/2006
Comments: Public comment period for OU 2 Proposed Plan.

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/03/2007
Comments: Final document concurrence letter sent 8/3/07.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 08/03/2007
Comments: The Final OU 5/10 North Base Human Health Risk Assessment document was received by DTSC on 5/9/2007, after resolution of comments submitted by DTSC's risk assessor. Of the 14 sites carried forward into the RI phase and evaluated in this document, 12 sites exceeded the residential scenario benchmarks of 1 x 10-6 cancer risk or a noncancer Hazard Index of 1.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: Military Munitions Response Program (MMRP) - Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 08/03/2007
Comments: Phase I Report recommends further investigation for 14 areas: AL 500 - Main Base Closed Range, AL 501 - South Base Ordnance Ranges, North and South; AL 502 - North Base Ordnance Ranges, North and South; AL 503 - Gates Range Areas, North, South, and West; AL 504, 7th AAF Bombing and Gunnery Range; AL 505, Edwards Off-Base Adjacent Areas 1, 2, 3, 4, and 5.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 3
Completed Document Type: Feasibility Study Report
Completed Date: 10/02/2008
Comments: DTSC accepted the final Site 3 Main Base Inactive Landfill FS. Four alternative were evaluated with combinations of Land Use Controls, Monitored Natural Attenuation, Evapotranspirative Cover, Stormwater Control, and Waste Consolidation.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/30/2008
Comments: Concurrence on Final document delayed due to workload and higher priority document reviews by DTSC and Fish and Game.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/30/2008
Comments: Concurrence on Final version of document delayed due to heavy workload and higher priority document reviews by DTSC and Fish and Game.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 06/05/1990
Comments: Not reported

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 11/20/2008
Comments: This addendum to the OUs 4/9 Workplan provides a summary of information to-date and outlines additional work to be performed for the bioremediation pilot study for the cleanup of plumes in the Arroyos portion of the South AFRL at EAFB.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 282
Completed Document Type: Treatability Study Workplan
Completed Date: 01/06/2009
Comments: Comments to Draft Workplan rec'd 8/20/08 were provided on 9/20/08. The Final workplan was received 11/6/08 and approved on 1/6/09.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name:	5/10 - Operable Units 5 and 10, North Base - MULTIPLE SITES
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	01/16/2009
Comments:	This document is the first phase ecological screening evaluation of the sites listed in the title. Site 233, and AOCs 284 and 287 have moved on to the next phase of evaluation while the remaining sites are considered no action for ecological issues.

Completed Area Name:	7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name:	Site 3
Completed Document Type:	Proposed Plan
Completed Date:	01/25/2010
Comments:	This is the proposed plan for the Air Force's proposed remedy for Site 3 in OU 7. The Air Force proposes a remedy that includes consolidation of some of the landfill cells, capping the cells using an "evapotranspiration cover", and conducting monitored attenuation monitoring. Additionally, land use covenents will be applied to the site.

Completed Area Name:	4A - AFRL Arroyos
Completed Sub Area Name:	Not reported
Completed Document Type:	Proposed Plan
Completed Date:	09/23/2009
Comments:	Document summarizes the investigation/feasibility study, and proposes the clean up remedy of the TCE/perchlorate/other VOC groundwater contamination at the Arroyos which is in OUs 4/9 along the northwestern side of the Edwards Air Force Research Laboratory. The proposed remedy is to apply a "Containment Zone" of the contaminated aquifer and if applicable, in the distant future institute active remediation if/when the plume(s) reach the alluvial aquifer.

Completed Area Name:	7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name:	Site 3
Completed Document Type:	Well Installation Workplan
Completed Date:	01/29/2009
Comments:	This document provides the details for addressing data gaps identified in the FS. Work to be performed includes the installation of downgradient monitoring wells, and landfill soil gas monitoring wells. Draft final and comment resolution handled electronically. DTSC concurred with the final changes; all comments have been addressed. No final concurrence letter needed or sent.

Completed Area Name:	1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name:	Site 16
Completed Document Type:	Well Decommissioning Workplan
Completed Date:	02/04/2009
Comments:	Document presents the results of the 2007-2008 annual monitoring of the Site 16 (OU 1) SVE system. DTSC comments on the draft were adequately addressed. No concurrence letter on the final document needed or sent.

Completed Area Name:	1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name:	Site 19
Completed Document Type:	Treatability Study Report
Completed Date:	01/02/2009
Comments:	Documents the status of the Site 19 Bioremediation Treatment Study.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/02/2009
Comments: This document presents the ecological risk assessments for Sites 233 and 284. DTSC and DFG concurs.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 04/02/2009
Comments: The ecological risk assessment for Site 233, AOC 284, and AOC 287 have been reviewed and accepted by DTSC and DFG. No formal concurrence letter needed or sent.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/02/2009
Comments: Document provides the results of the 2007-2008 annual groundwater monitoring perfomred at the AFRL (OUs 4/9. All of DTSC comments on the draft document were addressed; no concurrence letter on the final needed or sent.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Report
Completed Date: 01/21/2009
Comments: This document presents the results of the 2007-2009 annual groundwater monitoring and groundwater extraction system performance for site 285 at Operable Units 5 and 10. DTSC has reviewed and concurs with the final document; no concurrence letter needed or sent.
Not reported

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/09/2009
Comments: Report provides the results of the annual groundwater monitoring for Operable Units 5 & 10 at EAFB. No final concurrence letter required or sent.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 02/25/2009
Comments: This document presents a sampling plan for data the Air Force will use for designing the planned remedial systems at OU 1. The AF recognizes that without a signed ROD, the remedies have not yet been selected.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 09/02/2009
Comments: Documents the proposed installation of various monitoring wells at Sites 282, 285, and AOC 287 at OUs 5/10 at EAFB

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 58
Completed Document Type: Monitoring Report
Completed Date: 09/16/2009
Comments: Not reported

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 16
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 01/06/2010
Comments: This workplan is for the study of in-situ bioremediation groundwater treatment at Site 16.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Monitoring Report
Completed Date: 08/24/2009
Comments: This report presents the results of the December 2007 through November 2008 monitoring of the Site 25 Groundwater and Extraction Treatment System. This includes the monitoring of the VOC groundwater plume.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 18
Completed Document Type: Monitoring Report
Completed Date: 06/09/2009
Comments: Documents the results of the annual monitoring of the Site 18 Dual Phase Extraction System. DTSC concurs, no concurrence letter required. Not reported

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 172
Completed Document Type: Monitoring Report
Completed Date: 06/17/2009
Comments: This report presents the results of the 2008 soil vapor monitoring at Site 172

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 19
Completed Document Type: Well Completion Report
Completed Date: 06/10/2009
Comments: Report was issued as final. DTSC provided input via comment letter.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 29
Completed Document Type: Monitoring Report
Completed Date: 09/10/2009
Comments: Not reported

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Treatability Study Workplan
Completed Date: 12/07/2009
Comments: This document comprises the workplan to conduct a chem-ox treatability study at Site 25. Chemical oxidents will be leached into the subsurface via infiltration galleries in an attempt to assess the viability of using this method to reduce the amount of VOCs in

EDWARDS AIR FORCE BASE (Continued) **1000155217**

groundwater. DTSC reviewed and concurred with the responses to DTSC comments on the draft document. There was no draft final issued; DTSC concurs with the final document.

Completed Area Name: 4/9 - Soil and Debris Sites
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 10/08/2009
Comments: This Remedial Action Work Plan (RAWP) focuses on implementation of the remedial actions selected in the Soil and Debris Sites ROD. This RAWP outlines soil excavation, confirmation soil sampling, and/or groundwater well installation at Sites 13, 36, 167, 312, and 318. This RAWP also includes standard operating procedures in a Sampling and Analysis Plan and a Quality Assurance Project Plan (QAPP).

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 05/18/2010
Comments: This workplan outlines the installation of additional wells for the remedial action to clean up groundwater at Operable Unit 6.

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/02/2009
Comments: Not reported

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 11/03/2009
Comments: Report presents the results of the second phase of the In-Situ Chem Oxidation Treatability Study and the 2008 groundwater monitoring program. Chem ox treatment is reducing VOC concentrations in groundwater. More applications are forthcoming.

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 08/30/2010
Comments: Workplan for obtaining background levels for arsenic and nitrate

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/25/2009
Comments: This is the comprehensive 2007 annual groundwater monitoring report for 2007. DTSC has concurred; no concurrence letter required.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 76
Completed Document Type: Design/Implementation Workplan
Completed Date: 10/20/2010
Comments: Not reported

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.

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Completed Sub Area Name: Site 3
Completed Document Type: Feasibility Study Report
Completed Date: 01/07/2010
Comments: This documents the results of the data gaps investigation (additional monitoring wells and groundwater and soil gas (via previously installed permanent vapor wells)sampling to support the FS. Also included was an update to the VOC degradation study and a greater level of details on cleanup alternative cost estimates than was provided in the FS. At DTSC concurrence, no draft final was prepared and instead the Air Force worked with DTSC to address all of DTSC comments on the draft document.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/12/2009
Comments: This report documents the installation and initial monitoring of wells for the South AFRL remedial action. DTSC has identified one potential issue (that of adequate downgradient control for Site 120) which will be addressed by the Air Force.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 86
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 11/12/2010
Comments: Document presents the plan to perform the remedy (groundwater cleanup) at Site 86.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 231
Completed Document Type: Engineering Evaluation / Cost Analysis - Time Critical
Completed Date: 05/10/2010
Comments: This EE/CA presents the case for conducting a Non-Time (subsequently changed to a "Time") Critical Removal Action for lead-contaminated soil at Site 231 in OU 5/10. It will be performed via a "scoop and haul" method with an Air Force goal of achieving a "no further action" designation for this site.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 242
Completed Document Type: Engineering Evaluation / Cost Analysis - Time Critical
Completed Date: 05/11/2010
Comments: This EE/CA presents the case for conducting a Non-Time Critical Removal Action for PCB-contaminated soil at Site 242 in OU 5/10. It will be performed via a "scoop and haul" method with an Air Force goal of achieving a "no further action" designation for this site.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 231
Completed Document Type: Other Report
Completed Date: 09/20/2011
Comments: This Action Memorandum provides the administratively required justification for completing the lead-impacted soil removal action at Site 231

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base - MULTIPLE SITES
Completed Sub Area Name: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Document Type: Well Installation Workplan
Completed Date: 04/28/2010
Comments: This workplan provides for the installation of monitoring wells at the referenced sites to fill data gaps for the Air Force to proceed to the Feasibility Study.

Completed Area Name: 4/9 AFRL Misc. Documents
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 03/01/2010
Comments: Report provides the results from the 2008 installation of monitoring wells forthe AFRL Arroyos and Northeast AFRL plumes. Additional wells are needed and a workplan to install these additional wells is under DTSC review.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 02/18/2010
Comments: Provides the Purpose, data quality objectives, and schedule for the next phase (referred to as the "Eco" phase)of wells to be installed at the South AFRL to monitor the plume extents and meet the ROD requirements.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 05/10/2010
Comments: This workplan is for the installation of monitoring wells to address selected data gaps for the groundwater plumes in OU 1. In April 2010 DTSC participated in a technical workgroup meeting to resolve comments and select final well locations.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Report
Completed Date: 12/02/2009
Comments: This report summarizes the annual (04/08-04/09) operations and monitoring for Site 285 at OUs 5/10. DTSC did not review.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/22/2009
Comments: Report provides the results of the 2008 annual groundwater monitoring for the Arroyos, Northeast AFRL, and South AFRL at OUs 4/9

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/02/2010
Comments: Develops background groundwater concentrations for Nitrate, selected anions, and TDS.

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan

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Completed Date: 10/06/2010
Comments: Workplan to initiate in-situ chemical oxidation of VOCs in groundwater at Sites 5 and 14 in Operable Unit 2.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/19/2010
Comments: Provides the results of the August 2008-April 2009 Groundwater Monitoring Program for combined Operable Units 5 and 10.

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 05/18/2010
Comments: Workplan to install monitoring wells to address groundwater data gaps at the Northeast AFRL and a few of the Mars. Blvd. sites. Does not address all identified data gaps; there will be a future separate workplan for those data gaps.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 01/26/2011
Comments: Workplan to assess the VIP at Sites 16 and 18.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 333A
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 10/01/2010
Comments: Presents the results of the treatability study for groundwater at site 333. Injection of substrate resulted in degradation of primary contaminants to secondary contaminants (1,2-DCE) where degradation stalled even after bioaugmentation was applied. AF has agreed to continue monitoring to see if contaminant degradation continues.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 58
Completed Document Type: Monitoring Report
Completed Date: 07/26/2010
Comments: Provides the results of the Nov ’08 through Oct ’09 SVE operations.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 29
Completed Document Type: Other Report
Completed Date: 10/25/2010
Comments: This document presents the results of the surface debris removal and subsurface investigation to delineate the extent of and identify the general contents of the buried debris at Site 29. It was meant to feed into the remedial design. However, the results show that only limited innocuous (generally concrete, bottls, cans, etc.) are present. As a result, the Air Force turned this document into an FS addendum and added an evaluation of removing the buried debris.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 18
Completed Document Type: Monitoring Report

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Completed Date: 08/12/2010
Comments: Annual monitoring report for the OU 1, Site 18 Dual-phase extraction system for the remediation of VOCs in soil and groundwater.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 3
Completed Document Type: Record of Decision
Completed Date: 09/21/2012
Comments: After significant delay due to unacceptable changes made by the Air Force (AFCEE) in the draft final revision 1 and revision 2, and subsequent negotiation and modifications, the Federal Facility Agreement signatories agreed to finalize and sign the ROD in September 2012. This is a former municipal landfill that contains some (estimated to be small) amount of hazardous wastes that have resulted in a small VOC groundwater plume undergoing natural biodegradation. The remedy is to consolidate some of the more distant waste cells into a cell in the main portion of the landfill, apply land use controls restricting building on and in the vicinity of the landfill, conduct further studies of the bedrock aquifer, and monitor the continued degradation of the VOCs in groundwater.

Completed Area Name: Military Munitions Response Program (MMRP) - Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/15/2010
Comments: This report is the equivalent of a Remedial Investigation for military munitions for areas where the Air Force has identified as "closed" and no longer will be used for range operations. DTSC has reviewed and generally concurred with the results. In an August 2009 meeting, DTSC identified the need for further action in four areas.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 58
Completed Document Type: Quality Assurance Workplan
Completed Date: 12/03/2010
Comments: Presents the workplan to install an SVE system at OU 1 Site 58.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 14
Completed Document Type: Monitoring Report
Completed Date: 08/30/2010
Comments: DTSC reviewed the draft annual groundwater monitoring report, and no comments and concurred with finalization.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/21/2010
Comments: This workplan describes the plan for collecting and analyzing soil samples in source areas at OU 1. The data will be used in developing potential remedial designs which will be finalized in the Record of Decision

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 282
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 09/22/2010

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Comments: Reports the status of the treatability study for groundwater at Site 282. DTSC disagrees with the conclusion that the process in not viable for treating groundwater at Site 282 and has conveyed this in a letter on the final document.

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Report
Completed Date: 10/01/2010
Comments: Presents the results of the Treatability Study for GW contamination at Sites 162, 177, and 325. Study shows that these processess are technically feasible for contaminant clean up and they will be evaluated in the FS as part of remedy option evaluations.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/10/2010
Comments: Provides the remedial design for the remedy for Site 442.

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 08/09/2010
Comments: Workplan to install wells to address data gaps and provide data to support proposed remedy in the draft Arroyos ROD.

Completed Area Name: Military Munitions Response Program (MMRP) - Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Engineering Evaluation / Cost Analysis - Time Critical
Completed Date: 08/19/2010
Comments: Finalized on 8/19/2010. Some sites will move to either an FS or will undergo removal actions via and Engineering Evaluation/Cost Analysis.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/31/2010
Comments: This is the annual GW monitoring report for the period listed in the title. DTSC has concurred w/the final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 07/19/2010
Comments: Work plan on strategy to determine basewide determination of nitrate, seltected anions, and TDS. No new field work proposed; will comprise the analyses of existing data. DTSC did not review; deferred review to the other regulatory agencies.

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 03/05/2011
Comments: Documents the work to conduct an assessment of the presence of lead shot and skeet fragments at Sites 81 and 102

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 03/05/2011
Comments: Presents the plan for conducting grid sieving of shallow soil to assess presence of skeet fragments and lead shot in soil at the two sites.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 29
Completed Document Type: Removal Action Completion Report
Completed Date: 07/27/2010
Comments: This report documents the removal of 94,000 cubic yards of waste debris at Site 29 in Operable Unit 2. Wastes were segregated and either transported to recycling facilities or waste disposal facilities depending upon classification. Action will result in "clean closure" of this site.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Report
Completed Date: 12/01/2010
Comments: Provides the 4/09-4/10 final report for the Site 285 Groundwater Extraction system

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 231
Completed Document Type: Site Characterization Workplan
Completed Date: 09/13/2010
Comments: Workplan to install collect shallow soil gas samples, soil samples, groundwater samples, and install wells for risk screening purposes and source characterization.

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/02/2011
Comments: Annual monitoring report for OU 8 sites

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 02/04/2011
Comments: Not reported

Completed Area Name: 4/9 AFRL Misc. Documents
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/14/2011
Comments: Presents the 2009 annual groundwater monitoring results at various AFRL sites.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/07/2012
Comments: Provides the results of the vapor intrusion sampling and assessment

EDWARDS AIR FORCE BASE (Continued) **1000155217**

of the South AFRL. There is potential indication of low risk to selected buildings. Because of the transitory nature of soil vapor in the subsurface, the Air Force will conduct an additional monitoring round for the next South AFRL Five Year Review. There is an approximate 5x10-6 risk to occupants of Building 8595. To mitigate, the Air Force has agreed to continue to operate the SVE system to "break" the vapor pathway to the building.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 02/18/2011
Comments: Presents the strategy for sampling wells to identify nitrate sources at Edwards AFB

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/19/2011
Comments: 2009 Annual Monitoring Results for OU 1

Completed Area Name: 4/9 - Soil and Debris Sites
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 07/01/2011
Comments: Provides the results of the remedial action for the OUs 4 & 9 Soil and Debris Sites ROD. Action is complete for Sites 36, 6, and 113, but per DTSC and EPA comments the AF has agreed that a ROD Amendment is needed for Site 312 as they were unable to remove all the PCB-impacted soil.

Completed Area Name: 4/9 - Northeast AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/08/2011
Comments: Workplan to conduct an aquifer test in the Northeast AFRL for assessing aquifer parameters for future modeling updates.

Completed Area Name: Military Munitions Response Program (MMRP) - Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 10/13/2010
Comments: Provides the Phase II MMRP investigation of various areas of the base. Conclusions are that several areas will be designated as "No Further Action" while additional areas (AL504, AL505-2), and AL505-4) will undergo Feasibility Study (with required data gaps work) or a removal action via the EE/CA process.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 29
Completed Document Type: Proposed Plan
Completed Date: 01/18/2011
Comments: Proposed plan to explain the change in the remedy for Site 29. Plan now is to excavate for clean closure.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Document Type: Risk Assessment Report
Completed Date: 12/20/2010
Comments: PERA for select OU 7 Sites at EAFB.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 339
Completed Document Type: Site Characterization Workplan
Completed Date: 12/20/2011
Comments: Workplan to fill data gaps at Site 339 so the site can move to the ROD stage.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/01/2011
Comments: Site Characterization and Plume Delineation Work Plan to fill data gaps at OUs 5/10 Sites 231, 240/241, 275, 282, 285, and 422.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 04/01/1996
Comments: 1996 Operable Unit 1 RI Report. Note, there is a subsequent (2004) supplemental OU 1 RI report

Completed Area Name: 4/9 - Northeast AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/30/2014
Comments: Rather than send a letter on the final report, DTSC will provide any needed input in comments on the Draft Northeast AFRL FS as this modeling report is incorporated into the FS

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/23/2011
Comments: Provides the results of the final phase of the groundwater remedy treatment. Information will be used in the pending 5-year review of the OU 6 ROD remedy.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Well Installation Workplan
Completed Date: 08/01/2011
Comments: Well installation and geophysics survey to fill data gaps for Feasibility Study.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 231
Completed Document Type: Removal Action Completion Report
Completed Date: 08/01/2011
Comments: Documents the results of the (mostly lead) soil contamination cleanup of Site 231 at OUs 5/10

Completed Area Name: Military Munitions Response Program (MMRP) - Basewide
Completed Sub Area Name: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Document Type: Removal Action Workplan
Completed Date: 02/10/2012
Comments: Workplan to conduct a surface clearance of military munitions for 2 offsite areas adjacent to the base and one-site area at EAFB.

Completed Area Name: 4/9 - Soil and Debris Sites
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/01/1995
Comments: Presents the background levels for various inorganics in soil and bedrock at the AFRL area.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 12/30/2011
Comments: Results of the aquifer tests and associated model update for OU 5/10 sites

Completed Area Name: 4/9 - Northeast AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/22/2011
Comments: Workplan to assist in groundwater flow model projections

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/07/2011
Comments: Not reported

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 58
Completed Document Type: Monitoring Report
Completed Date: 07/29/2011
Comments: Annual monitoring report for Site 58 SVE system

Completed Area Name: Military Munitions Response Program (MMRP) - Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/10/2012
Comments: Action Memo justifying the reason for the non-time critical action for MMRP clearance at surface for 5 parcels.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Monitoring Report
Completed Date: 01/10/2012
Comments: Site 25 GETS Annual Groundwater Monitoring Report for 2010. Annual monitoring report for the Site 25 Groundwater Extraction Treatment System. DTSC has reiterated a request for the Air Force to restart the GETS system.

Completed Area Name: 4/9 - Northeast AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 05/24/2012

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Comments:	Workplan to collect data and assess the vapor intrusion pathway at occupied buildings in the Northeast AFRL and Mars Blvd sites in OUs 4/9
Completed Area Name:	8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	12/19/2011
Comments:	Workplan to fill data gaps at Site 61, 299, and 301. FS will be updated pending receipt of the data acquired from this work.
Completed Area Name:	4A - AFRL Arroyos
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	04/13/2012
Comments:	Provides the workplan for collecting data and assessing the vapor intrusion pathway for occupied buildings at the Arroyos
Completed Area Name:	1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name:	Site 16
Completed Document Type:	Pilot/Treatability Study Report
Completed Date:	01/24/2012
Comments:	Site 16 In Situ Bioremediation Study Status Report
Completed Area Name:	2 - Operable Unit 2, South Base
Completed Sub Area Name:	Site 14
Completed Document Type:	Operations and Maintenance Report
Completed Date:	10/13/2011
Comments:	Annual report documenting the status of the Site 14 groundwater extraction system. System is operating as planned; however sidegradient and downgradient extent of TCE plume is still undefined. AF is conducting a monitoring well installation program to define the extent of the plume.
Completed Area Name:	2 - Operable Unit 2, South Base
Completed Sub Area Name:	Site 29
Completed Document Type:	Record of Decision - Amendment
Completed Date:	10/16/2012
Comments:	Record of Decision Amendment to change the remedy to a "Clean Closure" from the prior remedy of capping and land use covenants.
Completed Area Name:	4A - AFRL Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	10/28/2011
Comments:	Workplan to perform Tracer Test to assess bedrock aquifer fracture zone for modeling and groundwater monitoring.
Completed Area Name:	1 - Operable Unit 1, Main Base Flightline - MULTIPLE SITES
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	12/29/2011
Comments:	Characterization of the Vapor Intrusion Pathway at two selected buildings at Sites 16 and 18. Data indicate low risk to building occupants.
Completed Area Name:	5/10 - Operable Units 5 and 10, North Base

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/09/2011
Comments: OU 5/10 AGMR

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Report
Completed Date: 01/30/2012
Comments: Annual Monitoring Report for the Site 285 Groundwater Extraction System

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 18
Completed Document Type: Monitoring Report
Completed Date: 12/23/2011
Comments: 2010 Annual report on the Site 18 Groundwater and vapor extraction system

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 12/23/2011
Comments: Final report for the ISCO treatability study at Site 25. Results are mixed; some trouble getting delivery of the chemical to the contaminated groundwater. Final decision is to continue to monitor to see if ISCO eventually makes it to the contaminated zone.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Quality Assurance Workplan
Completed Date: 05/17/2012
Comments: This is the revised Basewide QAPP which includes updated standard operating procedures for field and analytical work at Edwards AFB.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/30/2012
Comments: AGMR for 2010 Groundwater Monitoring at the Arroyos, NE AFRL, and South AFRL.

Completed Area Name: 4/9 Mars Blvd Sites
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/03/2012
Comments: OU 4 & 9 Mars Blvd Sites 2009 & 2010 Annual GWM Reports and 2011 Sampling Plan. Originally, one document, subsequently broken into 3 documents when finalized.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 03/22/2012
Comments: Provides the well installation information and initial sampling data for monitoring wells installed in 2010-2011 as part of the remedial design. Data will be used for the upcoming five-year review report.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: Operable Unit 4/9
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 04/04/2012
Comments: Presents the results of the installation of new monitoring wells at the AFRL Arroyos, Northeast AFRL, and Mars Blvd. Results in a revision to the Conceptual Site Model. The most significant change is at the Arroyos by moving the alluvium/bedrock aquifer transition several hundred feet closer to Leuhman Ridge.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 01/09/2012
Comments: This document provides the over-arching basewide conceptual site model for environmental contamination (including geology and hydrology) at the base and the relationship of on-base environmental issues to potential off-base occupants and water users.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Operations and Maintenance Plan
Completed Date: 06/01/2012
Comments: Updated sampling plan for the OU 5/10 Groundwater Extraction Treatment System.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Operations and Maintenance Manual
Completed Date: 06/01/2012
Comments: Updated O&M manual for the Site 285 Groundwater Extraction and Treatment System.

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 03/01/2003
Comments: OU 6 HHRA Report

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 09/19/2012
Comments: First Five Year Review for the South AFRL ROD. Air Force agrees to accelerate the groundwater monitoring program due to new predictions of plumes moving faster than thought during the ROD plus the need for further assessment of the Vapor Intrusion Pathway at Sites 37 and 133. Not reported

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 03/01/2006
Comments: Ecological risk assessment for Sites 25, 61, 257, and 301 at OU 8

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base - MULTIPLE SITES
Completed Sub Area Name: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Document Type: Remedial Investigation Report
Completed Date: 04/24/2008
Comments: Presents the results of the Site 299 and 301 RI investigation addendum.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 01/28/2013
Comments: OU 1 2011 Groundwater Modeling Report: Although EAFB finalized this document, there remains significant disagreements in the conceptual site model and associated assumptions/inputs used for this model. EAFB felt that these issues would not be resolved and chose to close out their contract and issue a final document. Rather than outright reject or consider the document incomplete, DTSC will factor outstanding issues into future decision-making for OU 1.

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 11/01/2008
Comments: HHRA Addendum for OU 2 Sites

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 06/01/2003
Comments: OU 2 HHRA

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/07/2012
Comments: Presents the status of the long-term monitoring of the South AFRL Remedy. Activities included LUC and groundwater monitoring, and SVE which was turned off in 2010. The shut-down of the SVE is compliant with the remedy which allows the Air Force to adjust systems as needed to optimize the remedy.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 06/21/2012
Comments: 2012 groundwater monitoring plan for the OU 4/9 Northeast and South AFRL areas.

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 04/02/2012
Comments: Not reported

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Site Characterization Report
Completed Date: 08/20/2012
Comments: Workplan to conduct the vapor intrusion pathway assessment for the

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two occupied buildings down slope from Site 25, and overlying the Site 25 groundwater plume.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 58
Completed Document Type: Monitoring Report
Completed Date: 08/09/2012
Comments: Annual monitoring report for the OU 1 Site 58 SVE system

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 06/12/2012
Comments: Sampling plan (schedule) for June 2012 groundwater monitoring at the AFRL Arroyos.

Completed Area Name: 4/9 - Northeast AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/27/2012
Comments: DTSC and Air Force remain in disagreement with certain elements of the Conceptual Site Model and resulting interpretation of the aquifer test. This needs to be considered when the Air Force conducts modeling and designs remedial systems for the Northeast AFRL

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 58
Completed Document Type: Removal Action Workplan
Completed Date: 06/25/2012
Comments: Addendum to the workplan for Site 58 operations

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/25/2012
Comments: 2011 AGMR and 2012 Sampling Plan for OU 8 Groundwater Program

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 09/26/2012
Comments: Presents the status of the ISCO injection portion of the remedy to remediate the Site 5/14 Groundwater Contaminant Plume

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 10/05/2012
Comments: Report that presents the results of the wells installed from 9/10-8/11 Not reported

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 18
Completed Document Type: Monitoring Report
Completed Date: 10/01/2012
Comments: Annual monitoring report for the Site 18 Dual Extraction System. No significant issues.

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Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/13/2012
Comments: Test to assess aquifer parameters in bedrock in the area where the Northeast AFRL plume is projected to migrate from bedrock to the alluvial aquifer.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 172
Completed Document Type: Monitoring Report
Completed Date: 08/31/2010
Comments: Site 172 Soil Vapor Extraction System Annual Operations Report for 2009

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/15/2009
Comments: Final Report

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 06/21/2007
Comments: Final HHRA Addendum for OU8

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Monitoring Report
Completed Date: 12/20/2010
Comments: This is the 2009 Annual Groundwater Monitoring Report for Site 25.

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 10/16/2012
Comments: In response to regulatory concerns, the Air Force has developed this Workplan to assess the vertical extent of skeet fragments and lead shot in gridded areas where vertical extent is undefined.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/08/2013
Comments: This document presents the updated sampling plan for Sites 5/14, 76, and 86. Also included are changes to the standard operating procedures for sampling and analyses.

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 03/12/2013
Comments: DTSC Comments on Draft Final OU6 VISP & RA WP submitted to Air Force

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 18

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Completed Document Type: Operations and Maintenance Plan
Completed Date: 01/28/2013
Comments: Workplan for the 2012-2013 operation of the DES system and the monitoring of groundwater contamination at Site 18.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 10/18/2012
Comments: Plan to conduct an enhanced in-situ biogeochemical transormation of VOCs pilot study at Site 19

Completed Area Name: 4/9 - Soil and Debris Sites
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 08/05/2013
Comments: OU 4/9 Soils and Debris Sites Five Year Review Report

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan Amendment
Completed Date: 04/10/2013
Comments: OU6 Remedial Action Workplan has been finalized.

Completed Area Name: 4/9 Mars Blvd Sites
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/19/2013
Comments: 2011 Annual GWM Report OU 4/9 Mars Blvd Sites 6, 27, 39, 113, 115, 116, 118, 125, 127, 178, 321, 333, and 338

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Quality Assurance Workplan
Completed Date: 02/29/2008
Comments: Updated Basewide Quality Assurance Project Plan includes the Basewide FSP and SAP

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 07/31/2007
Comments: Data gaps sampling report to obtain additional data for selected sites to finalize the FS

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 5
Completed Document Type: Remedial Investigation Workplan
Completed Date: 05/17/2013
Comments: OU 2 Site 5 Remedial Investigation Workplan to investigate the source of the carbon tetrachloride detected in groundwater downgradient from Site 5. Plan is to conduct a soil vapor survey and groundwater sampling of existing wells to locate the CT source.

Completed Area Name: 4/9 Mars Blvd Sites
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan

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Completed Date: 04/18/2013
Comments: 2012 Annual Groundwater Monitoring Sampling QAPP Plan. Provides the plan for sampling groundwater in 2012 at the Mars Boulevard Sites.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 339
Completed Document Type: Feasibility Study Report
Completed Date: 06/20/2013
Comments: Report finalized by AF, but DTSC has documented concerns to be addressed prior to ROD

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 14
Completed Document Type: Design/Implementation Workplan
Completed Date: 12/26/2012
Comments: This is a "letter" workplan addendum for relatively minor remediation system and monitoring modifications.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 03/06/2013
Comments: Final 2012 GWMSP Submitted. No further comments.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 10/16/2012
Comments: This document provides the groundwater sampling plan for 2012 at OU 5/10

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 312
Completed Document Type: Record of Decision w/ESD
Completed Date: 07/16/2013
Comments: This Explanation of Significant Difference from the (Soils and Debris Sites) ROD is to document the remedy change for Site 312, an active transformer station on Leuhman Ridge. Because of impacts to the EAFB "Mission", the transformer could be shut down for only a specific period of time for the soil excavation remedy. Air Force attempted "clean closure" but was unable to remove PCB contaminated soil from a small area below the concrete pad and a small area below the adjoining asphalt area. Concentrations of PCBs in soil remaining at the site are above residential cleanup levels necessitating a land use covenant restricting residential use and warning workers of the presence of potentially impacted covered soil.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 07/01/2004
Comments: This is an update to the 1996 RI report. It incorporates new data acquired since the prior RI report was published.

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

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Completed Date: 03/01/2013
Comments: Not reported

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Well Installation Workplan
Completed Date: 03/29/2013
Comments: Not reported

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 08/02/2013
Comments: RI/FS Addendum: Site Characterization and Plume Delineation Data Summary Report. Presents the results of data gaps by conducting soil vapor sampling and installing/sampling additional monitoring wells.

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/26/2013
Comments: Remedial Investigation Summary Report Addendum for Sites 61, 299, and 301. DTSC has reviewed and accepts the final document which details the data gaps investigation work at the three OU 8 groundwater plume sites.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Report
Completed Date: 04/05/2013
Comments: Site 285 Groundwater Extraction and Treatment System O&M Report for September 2011-September 2012. Presents the O&M activities (including extraction well sampling) for the GETS to remediate perchlorate in groundwater at Site 285.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 08/22/2013
Comments: AFRL Arroyos, Northeast AFRL, and Mars Blvd Well Installation Report for 2011-2012

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 442
Completed Document Type: Design/Implementation Workplan
Completed Date: 01/31/2014
Comments: Soil Gas Sampling Workplan, OU 7, Chemical Warfare Material Site 442, Areas 1, 2, and 3. Sampling is needed pursuant to the ROD to ensure protectiveness of possible chemical release from these CWM landfills.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 06/14/2013
Comments: Geophysical Surveys to Delineate the Spring Fault and GW Transition from Bedrock to Alluvial Aquifer, Arroyos and NE AFRL Areas

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/01/2012
Comments: Revised/updated RAB Charter and Bylaws approved by the RAB in 2012. Primary changes made to meetings (reduced from four to two per year) and incorporation of social media (Facebook) for communications.

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 02/13/2013
Comments: Meeting to Develop Workplan for Arroyos Data Gaps. This meeting was held on 2/13/13; DTSC (and other regulatory agencies) provided input and added ideas on the Air Force's plans to address Arroyos and Northeast AFRL data gaps.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 29
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 07/25/2013
Comments: Site 29 Remedial Action Work Plan. Presents the workplan to remove the contaminated soil and debris at Site 29.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Monitoring Report
Completed Date: 08/06/2013
Comments: Site 25 GETS Biennial Groundwater Monitoring Report-January 2011 to December 2012. Air Force did not issue a draft final. DTSC identified problems with the final and on 8/6/13 issued a draft comment letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 07/16/2013
Comments: Workplan for Vapor Intrusion Assessment at (high priority buildings at) OU's 1, 4/9, 5/10, and 8

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Engineering Evaluation / Cost Analysis - Time Critical
Completed Date: 10/16/2014
Comments: Sites 81 and 102 EE/CA for Removal of Lead Shot and Skeet Fragments. Selected "removal action" will actually be a cap consisting of crushed concrete and areas with soil/vegetation to allow for limited habitat restoration.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 442
Completed Document Type: Operations and Maintenance Plan
Completed Date: 09/13/2013
Comments: OU 7 Chemical Warfare Material Site 442 O&M Plan for Cap

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan

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Completed Date:	11/11/2013
Comments:	South AFRL 2013 Ground Water Sampling Workplan. DTSC disagrees with the number of wells to be sampled; however the Air Force is planning a more comprehensive sampling event in 2014 essentially deferring DTSC concerns.
Completed Area Name:	4A - AFRL Arroyos
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	06/24/2013
Comments:	Arroyos 2012 Groundwater Monitoring Report
Completed Area Name:	5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	08/12/2013
Comments:	OU 5/10 Annual Groundwater Monitoring Report for April-December 2012. Air Force did not address all of DTSC comments on the draft document. Issues will need to be tracked for future relevant documents.
Completed Area Name:	7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name:	Site 442
Completed Document Type:	Remedial Action Completion Report
Completed Date:	08/27/2013
Comments:	Site 442 Remedial Action Completion Report-Remedial Design and Construction. Air Force did not give DTSC adequate time to review the changes in the draft final and the response to comments on the draft report; however a review of the final shows that DTSC concerns on the draft report were addressed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Participation Plan / Community Relations Plan
Completed Date:	03/21/2014
Comments:	Community Involvement Plan 2014 update to the Community Relations Plan Not reported
Completed Area Name:	1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name:	Site 58
Completed Document Type:	Monitoring Plan
Completed Date:	09/03/2013
Comments:	Site 58 Soil Vapor Extraction QAPP Letter Addendum No. 3
Completed Area Name:	2 - Operable Unit 2, South Base
Completed Sub Area Name:	Site 76
Completed Document Type:	Operations and Maintenance Report
Completed Date:	10/30/2013
Comments:	Replacement pages recieved from AF
Completed Area Name:	2 - Operable Unit 2, South Base
Completed Sub Area Name:	Site 86
Completed Document Type:	Operations and Maintenance Report
Completed Date:	10/30/2013
Comments:	Final Replacement Pages submitted by AF
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Document Type: Remedial Investigation Workplan
Completed Date: 09/23/2013
Comments: Basewide Subsurface Nitrate Characterization QAPP (Workplan), OUs 1, 4/9, 7, and 8

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/18/2014
Comments: OU 8 - 2012 Annual Groundwater Monitoring Report for Sites 61, 257, 299, and 301. DTSC reviewed the final and determined that all comments were adequately addressed.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Remedial Investigation Report
Completed Date: 04/03/2014
Comments: OU 8 Site 25 Remedial Investigation Report Addendum. Presents the results of additional geophysics and well installation to characterize the site.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/22/2013
Comments: OU 4 & 9 2012 Annual Groundwater Monitoring Report for Northeast and South AFRL

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 06/29/2014
Comments: Report of 2012 and 2013 Sampling to Evaluate Vapor Intrusion Pathway at the AFRL Arroyos. Outstanding issues were identified in DTSC's 6/30/14 Contingent Concurrence letter. DTSC will work with the Air Force to address outstanding issues. The Arroyos ROD will be the venue for addressing the issues

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Plan
Completed Date: 12/26/2013
Comments: OU 5/10 Site 285 GETS QAPP Adddendum. Update to the Site 285 groundwater treatment plant sampling/monitoring program.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 04/05/2014
Comments: Basewide Groundwater Monitoring SAP, Vol 1-Long Term Monitoring Optimization Work Plan.

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Quality Assurance Workplan
Completed Date: 03/06/2014
Comments: Electronic copy recieved 28 March 2014

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name:	2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Implementation Workplan
Completed Date:	10/31/2013
Comments:	DTSC Provided email stating no further comments
Completed Area Name:	4/9 - Soil and Debris Sites
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	05/31/2013
Comments:	Soils and Debris Sites 2013 Land Use Control Inspection Report
Completed Area Name:	8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Installation Workplan
Completed Date:	09/16/2013
Comments:	Sites 61, 299, and 301 Well Installation Letter Workplan Addednum to the RI Workplan Addendum. Workplan to install additional wells at the three sites to address identified data gaps.
Completed Area Name:	9 - Air Force Research Lab - East
Completed Sub Area Name:	Site 125
Completed Document Type:	Site Characterization Report
Completed Date:	08/22/2013
Comments:	Site 125 Results of 2013 Well Installation Letter Report. This "addendum" to the OU 4/9 2011-2012 Well Installation Report (WIR) was finalized as an appendix to the WIR.
Completed Area Name:	4A - AFRL Area
Completed Sub Area Name:	Not reported
Completed Document Type:	Well Installation Workplan
Completed Date:	06/23/2014
Comments:	Well Installation Workplan-OU 4 Arroyos & South AFRL. Air Force and regulators collaboratively selected well locations. Note however, DTSC has informed the Air Force that these wells may not be sufficient for providing adequate South AFRL and Aroryos plume control Not reported
Completed Area Name:	1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name:	Site 58
Completed Document Type:	Monitoring Report
Completed Date:	01/23/2014
Comments:	Site 58 Annual Monitoring Report for the Soil Vapor Extraction System Nov '11 through Oct '12.
Completed Area Name:	7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name:	Site 442
Completed Document Type:	5 Year Review Reports
Completed Date:	12/20/2014
Comments:	Chemical Warfare Material First Five-Year Review Report. DTSC concurred with (via signing the signature page of) the final Report
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Enforceable Schedule
Completed Date:	10/10/2013
Comments:	2013 Update to the FFA Schedule

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 312
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/23/2014
Comments: Site 312 Addendum to the Soil and Debris Sites Remedial Action Completion Report. This report documents the remedy for the Site 312 ESD which changed the remedy from "clean closure" to Land Use Controls to protect potential receptors from a small amount of PCB-contaminated soil below the asphalt near the Site 312 transformer. Not reported

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 18
Completed Document Type: Monitoring Report
Completed Date: 02/21/2014
Comments: OU 1 Site 18 Annual Monitoring Report November 2011 through October 2012

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 14
Completed Document Type: Operations and Maintenance Manual
Completed Date: 04/14/2014
Comments: OU2, Site 14 GETS O&M Manual

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 86
Completed Document Type: Operations and Maintenance Manual
Completed Date: 04/14/2014
Comments: OU2, Site 86 O&M Manual

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 02/17/2014
Comments: OU 4 Arroyos Phase 2 Geophysical Survey Work Plan to Delineate Bedrock Topography and Transition to Alluvial Aquifer. DTSC believes that a reflection survey rather than the proposed refraction survey would be better at identifying the transition zone. AF cited budgetary reasons, but also attempted to make a technical case that the goals will be attained using the porposed refraction survey.

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/24/2014
Comments: Final OU2 Sites 5/14 Annual RASR received on 24 June 2014

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/23/2012
Comments: Letter Addendum to the Site 25 RI/FS Work Plan Addendum. Workplan to install 7 additional monitoring wells.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 442
Completed Document Type: Operations and Maintenance Report

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Date: 06/16/2014
Comments: Site 442 Annual Remedial Action Status Report March 2013 to October 2013

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Remedial Investigation Report
Completed Date: 08/01/2014
Comments: Site 25 VIP Investigation Summary Report, Buildings 4824 and 4870. Air Force finalized this document on 8/1/14 without resolving selected critical issues. DTSC will carry these issues forward into the FS

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 58
Completed Document Type: Removal Action Workplan Amendment
Completed Date: 06/23/2014
Comments: Site 58 Letter Addendum No. 4 to the QAPP

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 05/28/2016
Comments: Vapor Intrusion Assessment for 11 Selected Buildings at OUs 1, 5/10, and 8, Round 1 Sampling.

Completed Area Name: 4/9 Mars Blvd Sites
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/02/2014
Comments: 2012 Annual Groundwater Monitoring Report for "Mars Blvd" Sites 6, 27, 39, 113, 115, 116, 118, 125, 127, 178, 321, 333, AND 338

Completed Area Name: 9 - Air Force Research Lab - East
Completed Sub Area Name: Site 125
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/02/2014
Comments: 2014 Letter Addendum to the 2010 Well Installation Work Plan For Sites in the Northeast AFRL and Mars Blvd. This addendum, although officially part of the 2010 Well Installation Workplan, is tied directly to the 2013 Letter Addendum to the 2010 Well Installation Workplan. This 2013 addendum was inserted as Appendix F.1 to the 2010 Workplan. The conclusion of the 2014 Letter Addendum is there was no need to install well 125-MW27, contrary to the original purpose of this addendum which was to install 125-MW27. However groundwater sampling conducted subsequent to the draft of this Workplan Addendum showed that 125-MW27 is not needed (at this time).

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 3
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 08/27/2014
Comments: Geophysical Survey WP to Assess Site 3 Potential Preferential Pathways Affecting GW Flow and Contaminant Transport

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 5

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Document Type: Remedial Investigation Report
Completed Date: 11/03/2014
Comments: OU2, Site 5, Remedial Investigation Report will be complted by June 30.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 76
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/12/2014
Comments: Report title changed to Remedial Action Construction Progress Report

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 86
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/11/2014
Comments: Report Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 01/20/2015
Comments: Basewide 2014 Groundwater Monitoring Plan-OU1/8, OU4/9, OU5/10 and Site 25

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Report
Completed Date: 10/16/2014
Comments: Site 285 GETS Annual Operation and Maintenance (10/12-9/13) Report

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 18
Completed Document Type: Monitoring Report
Completed Date: 08/14/2014
Comments: OU 1 Site 18 Annual O&M Report November 2012 through October 2013

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 09/08/2014
Comments: Final OU2, Sites 5/14, 76 and 86 RAWP Addendum, Update 1

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 05/27/2016
Comments: See previous note regarding replacement of this document with Vapor Intrusion Investigation Report Addendum dated May 2016.

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/12/2014
Comments: Report of 2012 and 2013 Sampling to Evaluate VIP at the Northeast AFRL and Mars Blvd Sites. On 8/12/14 DTSC provided a draft letter to the Air Force outlining outstanding issues for this report; issues that will be carried through to the FS.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 538
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 02/17/2015
Comments: OU 3 Site 538 Preliminary Assessment/Site Inspection Report (PA/SI). DTSC has determined that further evaluation on the source of TCE in monitoring well 13-MW33 (Site 538) is warranted. Air Force agrees and this will be part of the South AFRL Remedial Action Workplan Version 2 scheduled for late 2015.

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/01/2014
Comments: OU 4/9 Arroyos Phase 2 Geophysical Survey Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 10/04/2014
Comments: Non-Time Critical Removal Action MMRP Surface Clearance, Munitions Sites AL504, AL505-2, and AL505-4. This document was issued only as a final report; it comprises a summary of activities and field documentation of the surface clearance actions for the above listed munitions sites.

Completed Area Name: 4/9 - Soil and Debris Sites
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 08/12/2014
Comments: AFRL Soil and Debris Sites Annual LUC Inspection and Maintenance Report Addendum May-December 2013. DTSC has reviewed and concurs with the document. No letter is required for this document issued as final.
Not reported

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/17/2015
Comments: OU 1 GWM and Sampling Report for 2012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Soil Vapor Extraction Monitoring Report
Completed Date: 09/05/2012
Comments: OU 4&9 Site 37 Building 8595 SVE System Reactivation and Sampling Memorandum

Completed Area Name: Military Munitions Response Program (MMRP) - Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 08/14/2015
Comments: Remedial Investigation Workplan for Munitions Response Sites AL501A, AL504, AL505-2, and AL505-4. This document is the plan for conducting subsurface reconnaissance of areas of potential buried munitions.

Completed Area Name: Military Munitions Response Program (MMRP) - Basewide

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Sub Area Name: Not reported
Completed Document Type: Quality Assurance Workplan
Completed Date: 08/14/2015
Comments: MMRP Site Insepction QAPP: Supplemental Comprehensive Site Evaluation Phase II for Munitions Response Sites AL505-3 and AL505-5

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/01/2015
Comments: South AFRL 2013 Annual Groundwater Monitoring Report

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/15/2015
Comments: OU 8 Sites 61, 299, and 301 Annual Groundwater Monitoring Report for 2013

Completed Area Name: Military Munitions Response Program (MMRP) - Basewide
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 10/06/2014
Comments: MMRP After Action Report Non-time Critical Removal Action-surface Clearance MRS's AL 504, AL 505-2, and AL 505-4. This document is a compilation of field and laboratory forms documenting the surface clearance removal performed in 2014.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 86
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/05/2015
Comments: Final Version of OU2 Site 86 ARASR

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Workplan
Completed Date: 07/20/2015
Comments: OU 5/10 Feasibility Study Workplan. This Workplan documents addition work to be completed to address data gaps at selected OU 5/10 sites. Not being addressed are additional data gaps identified previously by the regulators in comments on the draft and draft final Feasibility Study. The Air Force intends to address these regulator-identified data gaps in a future workplan.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 58
Completed Document Type: Monitoring Report
Completed Date: 03/31/2015
Comments: Site 58 Annual Monitoring Report for the Soil Vapor Extraction System Nov '12 through Oct '13

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 76
Completed Document Type: Monitoring Report
Completed Date: 03/04/2015
Comments: Final Site 76 RASR Submitted by AF

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 3
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 04/16/2016
Comments: Site 3 Remedial Action Workplan Volumes I and II

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/09/2015
Comments: Sites 81 and 102 Action Memorandum, Non-time Critical Removal Action. DTSC concurs with the proposed action

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 06/17/2015
Comments: Final RAWP Addendum for OU2 Sites 76, 86 and 5/14

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 07/10/2015
Comments: Addendum to Workplan for Vapor Intrusion Assessment at (high priority buildings at) OU's 1, 4/9, 5/10, and 8. DTSC is on record disagreeing with the workplan not including subslab vapor sampling.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 3
Completed Document Type: Monitoring Plan
Completed Date: 09/11/2015
Comments: Site 3 Pre-Design Groundwater and Landfill Gas 2015 Sampling Plan. This "plan" is actually a one-page memorandum describing sampling strategy for the Site 3 Landfill Gas.

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/12/2015
Comments: AFRL Arroyos 2013 GWM Report. DTSC reviewed and finds the final report acceptable.

Completed Area Name: 4/9 - Northeast AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/22/2015
Comments: OU 4/9 Northeast AFRL 2013 GWM Report

Completed Area Name: 7 - Operable Unit 7, Basewide Misc. - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 09/01/2015
Comments: Final document issued by AF on 9/1/2015

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Date: 05/28/2015
Comments: Final document received by DTSC.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 58
Completed Document Type: Technical Report
Completed Date: 06/01/2015
Comments: Not reported

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 18
Completed Document Type: Monitoring Report
Completed Date: 05/11/2015
Comments: Site 18 DES Annual O&M Report November 2013-October 2014. DTSC has expressed concern about the system being shut down for a lengthy period of time (the AF shut it down in 2013 to conduct nearby soil vapor sampling as part of a vapor intrusion investigation). The AF has responded that they restart the system monthly as part of routine O&M activities.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 5
Completed Document Type: Site Characterization Workplan
Completed Date: 08/19/2015
Comments: Change pages from DF to Final received from Air Force.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Report
Completed Date: 06/24/2015
Comments: Site 285 GETS Annual Operation and Maintenance (10/13-9/14) Report

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 37
Completed Document Type: Operations and Maintenance Report
Completed Date: 08/03/2015
Comments: Site 37 SVE O&M and Building 8595 Vapor Intrusion Monitoring Report for 2013. Note that DTSC disagrees with conclusions regarding VI screening numbers and the recommendation to no longer sample subslab VI wells

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 12/16/2015
Comments: Long-term Monitoring Optimization Volume II-Operable Units 1/8 GWM Sampling and Analysis Plan. There remain some important issues that will need to be resolved as part of the joint Air force-Regulator working group that will evaluate the 2015 groundwater monitoring data and make recommendations for future monitoring needs.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 442
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/08/2015
Comments: Site 442 Annual (Nov 2013 to Oct 2014) Remedial Action Status Report

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 86
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/28/2015
Comments: Final Version of Site 86 ARASR - 11/12-9/14 Submitted by AF on May 28, 2015.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 5
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/04/2015
Comments: AF submitted Interim Draft Final & RTCs. Comments minor. AF approved to finalize document.

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 06/22/2015
Comments: Final document received on 06/22/2015

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 58
Completed Document Type: Monitoring Report
Completed Date: 06/26/2015
Comments: Annual SVE Report, DTSC expressed a desire for the SVE system (currently shut-down) to remain available for being turned on at a future a date if needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 02/28/2016
Comments: OU 1, 4/9, 7, and 8 Subsurface Nitrate Characteization Report. Outstanding issue remain; DTSC is relying on the RWQCB to continue to work these issues with the Air Force

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 08/18/2015
Comments: OU 1/8 Well Installation Workplan

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 07/30/2016
Comments: South AFRL Remedial Action Workplan Version 2.0

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 76
Completed Document Type: Operations and Maintenance Report
Completed Date: 07/20/2015
Comments: Not reported

Completed Area Name: 4/9 AFRL Misc. Documents
Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Date: 07/02/2015
Comments: South & NE AFRL and Mars Blvd Sites Well Installation Report. DTSC had no comments on the draft report.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Well Completion Report
Completed Date: 01/19/2016
Comments: Site 25 Remedial Investigation Report Addendum No. 2

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 08/21/2015
Comments: Final document received by DTSC.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Monitoring Plan
Completed Date: 10/30/2015
Comments: Site 25 Letter Addendum to the Basewide GW Monitoring UFP-QAPP, 2015 Interim GW Monitoring Plan

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 3
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 10/08/2016
Comments: Site 3 Remedial Action Workplan Volume III. This provides the long term monitoring program for the Site 3 Landfill remedy.

Completed Area Name: 4/9 AFRL Misc. Documents
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 07/23/2015
Comments: OU 4/9 Interim Groundwater Monitoring Plan for 2015-Letter Addendum to the Basewide GWM Plan

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/01/2016
Comments: OU 5/10 Annual Groundwater Monitoring Report for 2014

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 37
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/30/2016
Comments: Site 37 SVE O&M and Building 8595 Vapor Intrusion Monitoring Report for 2014. DTSC has reviewed the final report; there remain outstanding disagreements described in the Responses to Comments table in Appendix E. No letter issued on the final, but DTSC will ensure raised issues are factored into the review of the subsequent 2015 monitoring report.

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Date: 09/15/2016
Comments: AFRL Arroyos 2014 GWM Report

Completed Area Name: 4/9 Mars Blvd Sites
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/06/2016
Comments: Sites 6 and 113 Groundwater Monitoring Report for 2014

Completed Area Name: 4/9 Mars Blvd Sites
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/23/2016
Comments: Mars Blvd Sites 2014 GWM Report. DTSC identified a laboratory QA/QC issue where PCE concentrations appeared "depressed" compared to historical results.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Monitoring Report
Completed Date: 07/19/2016
Comments: Site 25 Biennial Groundwater Monitoring Report 2013-2014

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 13
Completed Document Type: Operations and Maintenance Plan
Completed Date: 11/09/2015
Comments: Site 13 Landfill 2015 Post Closure Maintenance and Monitoring Plan. This site is undergoing post-closure monitoring under the Kern County Health Department; DTSC will review the status as part of the South AFRL Five Year Reviews.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 03/11/2014
Comments: US Fish and Wildlife 03/11/14 Biological Opinion

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/30/2016
Comments: South AFRL 2014 Annual Groundwater Monitoring Report

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 06/06/2016
Comments: Sites 81 and 102 Supplemental Workplan

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 442
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/16/2016
Comments: Site 442 Annual Remedial Action Stutus Report November 2014 - September 2015

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 4/9 - Northeast AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/21/2016
Comments: OU 4/9 Northeast AFRL 2014 GWM Report

Completed Area Name: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 12/09/2016
Comments: OB/OD Sites 39 and 270 Remedial Investigation Workplan

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 76
Completed Document Type: Monitoring Report
Completed Date: 07/20/2016
Comments: Completed

Completed Area Name: 4/9 - Soil and Debris Sites
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 05/16/2016
Comments: Soil and Debris Sites RAWP Addendum 1 (Site 13 Vapor Monitoring)

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 86
Completed Document Type: Monitoring Report
Completed Date: 07/15/2016
Comments: Not reported

Completed Area Name: 4/9 - Soil and Debris Sites
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 02/27/2016
Comments: OU 4/9 Soil and Debris Sites Land Use Controls Inspection/Maintenance Report for 2015. Document issued as final. DTSC reviewed; no comment letter required or distributed by DTSC.

Completed Area Name: 9 - Air Force Research Lab - East - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/18/2016
Comments: Sites 6 and 113 Groundwater Monitoring Report for 2015

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/16/2016
Comments: Completed

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Report
Completed Date: 04/17/2018
Comments: Site 285 Groundwater Monitoring Report for 2017

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Sub Area Name: Site 442
Completed Document Type: Operations and Maintenance Report
Completed Date: 07/23/2018
Comments: Site 442 Annual Remedial Action Stutus Report, October 2016 - September 2017

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 5
Completed Document Type: Removal Action Workplan Amendment
Completed Date: 04/20/2018
Comments: Document completed.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Site 18
Completed Document Type: Monitoring Report
Completed Date: 05/10/2018
Comments: Site 18 DES Annual O&M Report November 2016-October 2017

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 76
Completed Document Type: Monitoring Report
Completed Date: 08/06/2018
Comments: Final OU2 Site 76 ARASR. Laboratory reports (Appendix D.2, PDF 3/3) not uploaded due to size limitation.

Completed Area Name: 4/9 - Soil and Debris Sites
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/13/2018
Comments: Sites 6 and 113 Groundwater Monitoring Report for 2017

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Site Characterization Report
Completed Date: 09/26/2018
Comments: Site 25 Updated Cross Sections and 2016 Groundwater Level Contour Maps Technical Memorandum

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Site Characterization Workplan
Completed Date: 06/22/2018
Comments: Site 25 Phase II Geophysical Survey Work Plan.

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/02/2017
Comments: Final Letter Workplan for OU6 Groundwater Plume Delineation received on 6/1/2017.

Completed Area Name: 7 - Operable Unit 7, Basewide Misc. - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 11/07/2018
Comments: Final FS Report Addendum, OU7 Sites 272, 280, 293 and 339 received on 2 October 2018.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/14/2017
Comments: Final OU2 Sites 5/14 Groundwater Contaminant Plume, ARASR, Oct 2015 through Sept 2016 received on 12/14/17.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/01/2018
Comments: Final OU4/9 South AFRL Annual Groundwater Monitoring Report

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Site Characterization Workplan
Completed Date: 06/30/2017
Comments: Site 25 Source Area Soil Gas Sampling Workplan. Workplan to collect soil vapor from the well casings above source area groundwater monitoring wells to obtain recent soil vapor information from the Site 25 source area.

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/01/2018
Comments: AFRL Arroyos 2016 Groundwater Monitoring Report

Completed Area Name: 4/9 Mars Blvd Sites
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/12/2018
Comments: Sites 6 and 113 Groundwater Monitoring Report for 2017

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Site Characterization Workplan
Completed Date: 08/10/2017
Comments: Letter Workplan for Indoor Air Sampling at NASA Buildings 4857 and 4876. DTSC had minor comments on the draft which were addressed by the Air Force in the final report.

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 86
Completed Document Type: Removal Action Workplan
Completed Date: 07/19/2017
Comments: Decision Rule updated for use in future Site 86 documents.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Site Characterization Workplan
Completed Date: 10/12/2017
Comments: Site 25 Additional GW Sampling for Nitrate/Minerals and Source Area Evaluation Letter Workplan

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 5

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Document Type: Remedial Investigation Workplan
Completed Date: 11/07/2017
Comments: Completed

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/28/2017
Comments: Document completed

Completed Area Name: 4/9 - Northeast AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/27/2018
Comments: OU 4/9 Northeast AFRL 2016 GWM Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 05/25/2018
Comments: Site Inspection for Aqueous Film Forming Foam (PFAS/PFOA) Potential Release Areas

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Monitoring Report
Completed Date: 10/19/2018
Comments: Not reported

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/23/2018
Comments: Groundwater Monitoring Well Installation Report, Sites 17, 19, and 66 (for GW plume extent characterization)

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/14/2018
Comments: Site 25 Letter Report Indoor Air Sampling Buildings 4857 and 4876

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 86
Completed Document Type: Monitoring Report
Completed Date: 08/06/2018
Comments: Final OU2 Site 86 ARASR. All documents uploaded except Apdx C.2, Laboratory Reports.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Report
Completed Date: 04/02/2018
Comments: Site 285 GETS Annual Operation and Maintenance (10/16-9/17) Report

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Document Type: Site Characterization Workplan
Completed Date: 03/18/2018
Comments: Site 25 Soil Gas Sampling Results Summary and Permeability Test Letter Work Plan

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 5
Completed Document Type: Remedial Investigation Report
Completed Date: 09/13/2018
Comments: Report completed.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Treatability Study Workplan
Completed Date: 11/06/2018
Comments: Site 25 Source Area Subsurface Permeability and SVE Treatability Study Letter Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Enforceable Schedule
Completed Date: 10/12/2018
Comments: 2018 Update to the FFA Schedule

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 10/12/2018
Comments: OU 1/8 2018 Interim GWM Sampling and Analysis Plan

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/01/2017
Comments: Site 25 Slug Test Technical Memorandum, issued as a final document (no draft version distributed)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Federal Facility Agreement
Completed Date: 09/25/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 06/01/2016
Comments: Preliminary Assessment Report for Perfluorinated Compounds at EAFB. This report was issued as a final and provided to DTSC only electronically. The Air Force verbalized a request for DTSC input to prepare for the Site Inspection/Investigation scheduled for 2016

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 01/15/2010
Comments: Pre-Design Investigation Work Plan, sites 226, 257, and 299. DTSC

EDWARDS AIR FORCE BASE (Continued) **1000155217**

concurred with the work; however some of our comments may not have been adequately addressed. These includes questions regarding the background value being used for arsenic, the location of the proposed upgradient well at Site 257 and vertical contaminant groundwater control at Site 299.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Report
Completed Date: 08/26/2016
Comments: Site 285 GETS Annual Operation and Maintenance (10/14-9/15) Report

Completed Area Name: 4/9 AFRL Misc. Documents
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 12/12/2016
Comments: Groundwater Sampling and Analyses Plan Volume III, OU 4/9 Long-Term Monitoring Optimization

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 76
Completed Document Type: Removal Action Workplan
Completed Date: 10/14/2016
Comments: Completed

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2016
Comments: This document was submitted as a Final in accordance with agreement with AF made in 2011. There are not Draft or Draft Final versions associated with this document.

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 09/21/2016
Comments: Completed. Included in OU6 Second Five-Year Review Report.

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/22/2016
Comments: 2010 Well Installation Technical Memorandum for Sites 226, 257, and 299. Because of DTSC's limited resources, this report was not reviewed. However, it is a low priority document essentially just documenting the results of the well installation activities and therefor not requiring review.

Completed Area Name: 8 - Operable Unit 8, Northwest Main Base
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/12/2017
Comments: 2013 Well Installation Technical Memorandum for Sites 61, 299, and 301. Provides the details of data gaps wells that were installed in 2013.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 37
Completed Document Type: Operations and Maintenance Report
Completed Date: 10/20/2016
Comments: Site 37 SVE O&M and Building 8595 Vapor Intrusion Monitoring Report for 2015

Completed Area Name: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 09/22/2016
Comments: EPA submitted concurrence letter.

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/11/2016
Comments: Operable Units 1/8 2016 Groundwater Monitoring Schedule

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 13
Completed Document Type: Monitoring Report
Completed Date: 06/14/2016
Comments: Site 13 Landfill Annual Compliance Monitoring Report for 2015

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 13
Completed Document Type: Monitoring Report
Completed Date: 03/12/2015
Comments: Site 13 Landfill Annual Compliance Monitoring Report for 2013

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 86
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 10/14/2016
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 03/16/2017
Comments: Site Inspection Workplan (UFP-QAPP) for Aqueous Film Forming Foam Usage (PFCs/PFAS) at EAFB

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Enforceable Schedule
Completed Date: 09/12/2016
Comments: 2016 Update to the FFA Schedule

Completed Area Name: 4A - AFRL Arroyos
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/28/2017
Comments: AFRL Arroyos 2015 GWM Report

Completed Area Name: PROJECT WIDE

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Sub Area Name: Not reported
Completed Document Type: Well Completion Report
Completed Date: 05/02/2017
Comments: Sites 17, 19, 51, 58, and 66 Cone Penetration Test Investigation and Site 58 Well Installation Report

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Monitoring Report
Completed Date: 04/13/2017
Comments: Site 25 Groundwater Monitoring Report for 2015

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 10/11/2016
Comments: OU 1/8 Groundwater Monitoring Sampling Plan for 2016. 2016 is an "off year" for sampling; however the RPMs agreed that data was needed from a select group of wells to provide data for the upcoming FS. The wells selected for sampling were agreed upon in the July 2016 RPM meeting.

Completed Area Name: 4/9 Mars Blvd Sites
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/03/2017
Comments: Mars Blvd Sites 2015 GWM Report

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 10/06/2016
Comments: OU 1/8 2016 Groundwater Monitoring Sampling Plan. A select list of wells will be sampled, agreed upon by the Air Force and regulators during the July 2016 RPM meeting. These data will be used to augment the pending OU 1/8 Feasibility Study.

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 12/28/2016
Comments: Sites 81 and 102 NTCRA Pre-Design Survey Field Activities Letter Report. This report summarizes further site characterization which will be used to finalize the planned "removal action".

Completed Area Name: 4/9 Mars Blvd Sites
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/07/2017
Comments: Sites 6 and 113 Groundwater Monitoring Report for 2016

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 442
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/12/2017
Comments: Site 442 Annual Remedial Action Status Report October 2015 - September 2016

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 86
Completed Document Type: Monitoring Report
Completed Date: 06/30/2017
Comments: Final OU2, Site 86 ARASR issued on June 30, 2017 but DTSC did not receive a copy until 1/12/2018.

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/17/2017
Comments: OU 4/9 South AFRL 2015 Annual Groundwater Monitoring Report

Completed Area Name: 4/9 - Northeast AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/17/2017
Comments: OU 4/9 Northeast AFRL 2015 GWM Report

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 76
Completed Document Type: Monitoring Report
Completed Date: 08/18/2017
Comments: Final OU2 Site 76 ARASR, Oct 2015 - Sept 2016

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/26/2017
Comments: OU 1/8 GWM and Sampling Report for 2015

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Monitoring Plan
Completed Date: 04/30/2018
Comments: Basewide GWM Sampling and Analysis Plan-Volume V, Site 25 Long-Term Monitoring Optimization Plan

Completed Area Name: 4/9 - Soil and Debris Sites
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 03/14/2017
Comments: Soil and Debris Sites 2016 Land Use Controls Inspection and Maintenance Report

Completed Area Name: 4/9 - South AFRL
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 02/15/2017
Comments: South AFRL 2016 Land Use Controls Inspection and Maintenance Report. DTSC has reviewed and has no comments.

Completed Area Name: 5/10 - Operable Units 5 and 10, North Base
Completed Sub Area Name: Site 285
Completed Document Type: Monitoring Report
Completed Date: 06/28/2017
Comments: Site 285 O&M Report for the Period 10/16 through 09/17

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Completed Area Name:	4A - AFRL Area
Completed Sub Area Name:	Site 37
Completed Document Type:	Monitoring Report
Completed Date:	11/09/2017
Comments:	Site 37 SVE O&M and Building 8595 Vapor Intrusion Monitoring Report for 2016
Completed Area Name:	6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	10/19/2006
Comments:	OU-6 ROD included Land Use Controls to prevent exposure to groundwater during cleanup. Extraction of groundwater for use other than monitoring is prohibited.
Completed Area Name:	8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name:	Site 25
Completed Document Type:	Well Installation Workplan
Completed Date:	04/06/2017
Comments:	Site 25 Plume Leading Edge Monitoring Well Installation Letter Workplan. To install wells to define the leading edge of the Site 25 TCE plume.
Completed Area Name:	1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name:	Site 18
Completed Document Type:	Monitoring Report
Completed Date:	09/26/2017
Comments:	Site 18 DES Annual O&M Report November 2014-October 2016
Future Area Name:	5/10 - Operable Units 5 and 10, North Base
Future Sub Area Name:	Not reported
Future Document Type:	Record of Decision
Future Due Date:	2024
Future Area Name:	4A - AFRL Arroyos
Future Sub Area Name:	Not reported
Future Document Type:	Record of Decision
Future Due Date:	2021
Future Area Name:	5/10 - Operable Units 5 and 10, North Base
Future Sub Area Name:	Not reported
Future Document Type:	Proposed Plan
Future Due Date:	2023
Future Area Name:	7 - Operable Unit 7, Basewide Misc.
Future Sub Area Name:	Not reported
Future Document Type:	Record of Decision
Future Due Date:	2019
Future Area Name:	8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Future Sub Area Name:	Site 25
Future Document Type:	Record of Decision
Future Due Date:	2022
Future Area Name:	2 - Operable Unit 2, South Base
Future Sub Area Name:	Site 5
Future Document Type:	Feasibility Study Report
Future Due Date:	2019
Future Area Name:	4/9 - Northeast AFRL
Future Sub Area Name:	Not reported
Future Document Type:	Proposed Plan
Future Due Date:	2023

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Future Area Name:	4/9 - Northeast AFRL
Future Sub Area Name:	Not reported
Future Document Type:	Feasibility Study Report
Future Due Date:	2023
Future Area Name:	4/9 Mars Blvd Sites
Future Sub Area Name:	Not reported
Future Document Type:	Feasibility Study Report
Future Due Date:	2023
Future Area Name:	8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Future Sub Area Name:	Site 25
Future Document Type:	Feasibility Study Report
Future Due Date:	2020
Future Area Name:	7 - Operable Unit 7, Basewide Misc.
Future Sub Area Name:	Not reported
Future Document Type:	Proposed Plan
Future Due Date:	2024
Future Area Name:	7 - Operable Unit 7, Basewide Misc.
Future Sub Area Name:	Site 442
Future Document Type:	Operations and Maintenance Report
Future Due Date:	2019
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2025
Schedule Area Name:	2 - Operable Unit 2, South Base
Schedule Sub Area Name:	Site 5
Schedule Document Type:	Proposed Plan
Schedule Due Date:	08/15/2018
Schedule Revised Date:	05/28/2024
Schedule Area Name:	5/10 - Operable Units 5 and 10, North Base
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Proposed Plan
Schedule Due Date:	12/27/2018
Schedule Revised Date:	12/27/2019
Schedule Area Name:	4/9 - South AFRL
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Record of Decision w/ESD
Schedule Due Date:	03/30/2019
Schedule Revised Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Site Characterization Report
Schedule Due Date:	07/01/2017
Schedule Revised Date:	Not reported
Schedule Area Name:	5/10 - Operable Units 5 and 10, North Base
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Feasibility Study Report
Schedule Due Date:	06/30/2019
Schedule Revised Date:	Not reported
Schedule Area Name:	Military Munitions Response Program (MMRP) - Basewide
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Site Characterization Report
Schedule Due Date:	03/31/2018
Schedule Revised Date:	11/28/2018
Schedule Area Name:	7 - Operable Unit 7, Basewide Misc. - MULTIPLE SITES
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedial Investigation / Feasibility Study

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Schedule Due Date:	01/31/2019
Schedule Revised Date:	Not reported
Schedule Area Name:	Multiple OUs - MULTIPLE SITES
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedial Investigation / Feasibility Study
Schedule Due Date:	04/30/2019
Schedule Revised Date:	Not reported
Schedule Area Name:	4/9 - South AFRL
Schedule Sub Area Name:	Not reported
Schedule Document Type:	5 Year Review Reports
Schedule Due Date:	11/30/2018
Schedule Revised Date:	Not reported
Schedule Area Name:	1 - Operable Unit 1, Main Base Flightline
Schedule Sub Area Name:	Site 16
Schedule Document Type:	Site Characterization Report
Schedule Due Date:	06/12/2019
Schedule Revised Date:	Not reported
Schedule Area Name:	2 - Operable Unit 2, South Base
Schedule Sub Area Name:	Site 29
Schedule Document Type:	Record of Decision w/ESD
Schedule Due Date:	12/30/2018
Schedule Revised Date:	Not reported
Schedule Area Name:	4/9 - Soil and Debris Sites
Schedule Sub Area Name:	Not reported
Schedule Document Type:	5 Year Review Reports
Schedule Due Date:	10/19/2018
Schedule Revised Date:	Not reported
Schedule Area Name:	7 - Operable Unit 7, Basewide Misc.
Schedule Sub Area Name:	Site 3
Schedule Document Type:	Remedial Action Completion Report
Schedule Due Date:	02/28/2019
Schedule Revised Date:	Not reported
Schedule Area Name:	2 - Operable Unit 2, South Base - MULTIPLE SITES
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Removal Action Workplan
Schedule Due Date:	03/31/2018
Schedule Revised Date:	Not reported
Schedule Area Name:	Military Munitions Response Program (MMRP) - Basewide
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Remedial Investigation / Feasibility Study
Schedule Due Date:	05/30/2019
Schedule Revised Date:	Not reported

Calsite:

Region:	SACRAMENTO
Facility ID:	15970001
Facility Type:	OPEN
Type:	OPEN MILITARY BASE
Branch:	NO
Branch Name:	OMF-NORTHERN CALIF
File Name:	Not reported
State Senate District:	05011986
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL
NPL:	Listed
SIC Code:	97

EDWARDS AIR FORCE BASE (Continued) **1000155217**

SIC Name:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access:	Not reported
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	JOKANE
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	LN
Region Water Control Board Name:	LAHONTAN
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	MEASURED FROM CENTER POINT OF RUNWAY
State Assembly District Code:	34
State Senate District Code:	18
Facility ID:	15970001
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU10
Proposed Budget:	0
AWP Completion Date:	07012007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	OU9
Proposed Budget:	0
AWP Completion Date:	07012007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU9
Proposed Budget:	0
AWP Completion Date:	07012006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	OU8
Proposed Budget:	0
AWP Completion Date:	07012007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RIFS

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU8
Proposed Budget:	0
AWP Completion Date:	07012006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU7
Proposed Budget:	0
AWP Completion Date:	12312006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	OU5
Proposed Budget:	0
AWP Completion Date:	07012007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU5
Proposed Budget:	0
AWP Completion Date:	07012006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU4
Proposed Budget:	0
AWP Completion Date:	06302006
Revised Due Date:	08302005
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	S426
Proposed Budget:	0
AWP Completion Date:	08062004
Revised Due Date:	Not reported
Comments Date:	08062004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU1
Proposed Budget:	0
AWP Completion Date:	12012005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU6
Proposed Budget:	0

EDWARDS AIR FORCE BASE (Continued) **1000155217**

AWP Completion Date:	09302004
Revised Due Date:	Not reported
Comments Date:	10152004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	OM
Activity Name:	OPERATION & MAINTENANCE
AWP Code:	S172
Proposed Budget:	0
AWP Completion Date:	06302003
Revised Due Date:	Not reported
Comments Date:	06302003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	S133
Proposed Budget:	0
AWP Completion Date:	06272003
Revised Due Date:	Not reported
Comments Date:	06272003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	STE25
Proposed Budget:	0
AWP Completion Date:	05132003
Revised Due Date:	Not reported
Comments Date:	05132003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL32
Proposed Budget:	0
AWP Completion Date:	06282002
Revised Due Date:	Not reported
Comments Date:	06282002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL31
Proposed Budget:	0
AWP Completion Date:	06282002
Revised Due Date:	Not reported
Comments Date:	06282002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL30
Proposed Budget:	0
AWP Completion Date:	06282002
Revised Due Date:	Not reported
Comments Date:	06282002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL29
Proposed Budget:	0
AWP Completion Date:	03292002
Revised Due Date:	Not reported
Comments Date:	03292002

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL28
Proposed Budget:	0
AWP Completion Date:	03292002
Revised Due Date:	Not reported
Comments Date:	03292002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL27
Proposed Budget:	0
AWP Completion Date:	03292002
Revised Due Date:	Not reported
Comments Date:	03292002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	S426
Proposed Budget:	0
AWP Completion Date:	10112001
Revised Due Date:	Not reported
Comments Date:	10112001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL26
Proposed Budget:	0
AWP Completion Date:	12132001
Revised Due Date:	Not reported
Comments Date:	12132001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL25
Proposed Budget:	0
AWP Completion Date:	12132001
Revised Due Date:	Not reported
Comments Date:	12132001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL24
Proposed Budget:	0
AWP Completion Date:	12132001
Revised Due Date:	Not reported
Comments Date:	12132001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL23
Proposed Budget:	0
AWP Completion Date:	09172001
Revised Due Date:	Not reported
Comments Date:	09172001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL22
Proposed Budget:	0
AWP Completion Date:	09172001
Revised Due Date:	Not reported
Comments Date:	09172001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL21
Proposed Budget:	0
AWP Completion Date:	09172001
Revised Due Date:	Not reported
Comments Date:	09172001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL20
Proposed Budget:	0
AWP Completion Date:	06112001
Revised Due Date:	Not reported
Comments Date:	06112001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL19
Proposed Budget:	0
AWP Completion Date:	06082001
Revised Due Date:	Not reported
Comments Date:	06082001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	STE25
Proposed Budget:	0

EDWARDS AIR FORCE BASE (Continued) **1000155217**

AWP Completion Date:	12042000
Revised Due Date:	Not reported
Comments Date:	12042000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL18
Proposed Budget:	0
AWP Completion Date:	03152001
Revised Due Date:	Not reported
Comments Date:	03152001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL17
Proposed Budget:	0
AWP Completion Date:	03152001
Revised Due Date:	Not reported
Comments Date:	03152001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL16
Proposed Budget:	0
AWP Completion Date:	03152001
Revised Due Date:	Not reported
Comments Date:	03152001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL15
Proposed Budget:	0
AWP Completion Date:	02072001
Revised Due Date:	Not reported
Comments Date:	02072001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL14
Proposed Budget:	0
AWP Completion Date:	02072001
Revised Due Date:	Not reported
Comments Date:	02072001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL13
Proposed Budget:	0
AWP Completion Date:	02082001
Revised Due Date:	Not reported
Comments Date:	02082001
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	DES
Activity Name:	DESIGN
AWP Code:	STE18
Proposed Budget:	0
AWP Completion Date:	08021999
Revised Due Date:	Not reported
Comments Date:	08021999

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL12
Proposed Budget:	0
AWP Completion Date:	04212000
Revised Due Date:	Not reported
Comments Date:	04212000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL11
Proposed Budget:	0
AWP Completion Date:	01052000
Revised Due Date:	Not reported
Comments Date:	01052000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL10
Proposed Budget:	0
AWP Completion Date:	01052000
Revised Due Date:	Not reported
Comments Date:	01052000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL9
Proposed Budget:	0
AWP Completion Date:	09291999
Revised Due Date:	Not reported
Comments Date:	09291999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL8
Proposed Budget:	0
AWP Completion Date:	09291999
Revised Due Date:	Not reported
Comments Date:	09291999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL7
Proposed Budget:	0
AWP Completion Date:	02261999
Revised Due Date:	Not reported
Comments Date:	02261999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	DES
Activity Name:	DESIGN
AWP Code:	S223
Proposed Budget:	0
AWP Completion Date:	02021999
Revised Due Date:	Not reported
Comments Date:	02021999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	DES
Activity Name:	DESIGN
AWP Code:	SIT14
Proposed Budget:	0
AWP Completion Date:	02011999
Revised Due Date:	Not reported
Comments Date:	02011999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	B8595
Proposed Budget:	0
AWP Completion Date:	01281999
Revised Due Date:	Not reported
Comments Date:	01281999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL6
Proposed Budget:	0
AWP Completion Date:	10011998
Revised Due Date:	Not reported
Comments Date:	10011998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SRAM
Proposed Budget:	0
AWP Completion Date:	08031998
Revised Due Date:	Not reported
Comments Date:	08031998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	REMOVAL ACTION CONSISTED OF DESTRUCTION OF SHORT RANGE ATTACK MISSLE MOTOR.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	OM
Activity Name:	OPERATION & MAINTENANCE
AWP Code:	OU-6

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Proposed Budget:	0
AWP Completion Date:	04271999
Revised Due Date:	Not reported
Comments Date:	04271999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	S133
Proposed Budget:	0
AWP Completion Date:	10172000
Revised Due Date:	Not reported
Comments Date:	10172000
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL5
Proposed Budget:	0
AWP Completion Date:	10011998
Revised Due Date:	Not reported
Comments Date:	10011998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL4
Proposed Budget:	0
AWP Completion Date:	07291998
Revised Due Date:	Not reported
Comments Date:	07291998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	PRL1
Proposed Budget:	0
AWP Completion Date:	12121996
Revised Due Date:	Not reported
Comments Date:	12121996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0

EDWARDS AIR FORCE BASE (Continued) **1000155217**

For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	S223
Proposed Budget:	0
AWP Completion Date:	06011999
Revised Due Date:	Not reported
Comments Date:	06011999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SIT14
Proposed Budget:	0
AWP Completion Date:	06111999
Revised Due Date:	Not reported
Comments Date:	06111999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SIT29
Proposed Budget:	0
AWP Completion Date:	06041998
Revised Due Date:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Comments Date:	06041998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	X
Removal Action Certification:	N
Activity Comments:	REMOVAL ACTION CONSISTED OF FENCING THE SITE FOR ACCESS RESTRICTION AND CONDUCTING LONG-TERM GROUNDWATER MONITORING.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	S223
Proposed Budget:	0
AWP Completion Date:	05071998
Revised Due Date:	Not reported
Comments Date:	05071998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	SIT14
Proposed Budget:	0
AWP Completion Date:	05071998
Revised Due Date:	Not reported
Comments Date:	05071998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	SIT29
Proposed Budget:	0
AWP Completion Date:	05071998
Revised Due Date:	Not reported
Comments Date:	05071998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU2
Proposed Budget:	0
AWP Completion Date:	11302005
Revised Due Date:	04302005
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	X
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	5&15
Proposed Budget:	0
AWP Completion Date:	12101997
Revised Due Date:	Not reported
Comments Date:	12101997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	INITIAL OPERATION OF THE DUAL EXTRACTION SYSTEM TO REMEDIATE VOC CONTAMINATION COMMENCED ON 4/10/97. AMOUNTS SHOWN ARE FOR THE INITIAL 3 MONTHS OF OPERATION.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	7&167
Proposed Budget:	0
AWP Completion Date:	06301997
Revised Due Date:	Not reported
Comments Date:	06301997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	8482
Liquids Treated (Gals):	8482
Action Included Capping:	X
Well Decommissioned:	Not reported
Action Included Fencing:	X
Removal Action Certification:	N
Activity Comments:	BERYLLIUM CONTAMINATED SOILS WERE EXCAVATED AND DEPOSITED ON-SITE UNDER THE DTSC CAMU REGULATIONS AND IN ACCORDANCE WITH THE ARARS CONTAINED IN 23 CCR, CHAPTER 15.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SIT16
Proposed Budget:	0

EDWARDS AIR FORCE BASE (Continued) **1000155217**

AWP Completion Date:	06301997
Revised Due Date:	Not reported
Comments Date:	06301997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	INITIAL OPERATION OF THE DULA EXTRACTION SYSTEM BEGAN ON MARCH 18. BASED ON BIMONTHLY MONITORING REPORTS, THE SYSTEM APPEARS TO BE OPERATING PROPERLY. CONTINUED OPERATION WILL BE CONDUCTED UNDER OM.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SIT45
Proposed Budget:	0
AWP Completion Date:	05221997
Revised Due Date:	Not reported
Comments Date:	05221997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	THE SITE 45 RA CONSISTS OF DTSC'S APPROVAL THAT THE DUAL VAPOR/ GROUNDWATER EXTRACTION SYSTEM IS OPERATING SATISFACTORILY AND THAT THE SYSTEM IS NOW CONSIDERED TO BE IN AN OPERATION AND MAINTENANCE MODE.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	5&15
Proposed Budget:	0
AWP Completion Date:	06301997
Revised Due Date:	Not reported
Comments Date:	06301997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	SIT18
Proposed Budget:	0
AWP Completion Date:	05291997
Revised Due Date:	Not reported
Comments Date:	05291997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	SIT16
Proposed Budget:	0
AWP Completion Date:	09301996
Revised Due Date:	Not reported
Comments Date:	09301996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	SIT45
Proposed Budget:	0
AWP Completion Date:	09301996
Revised Due Date:	Not reported
Comments Date:	09301996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	7&167
Proposed Budget:	0
AWP Completion Date:	09301996
Revised Due Date:	Not reported
Comments Date:	09301996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Proposed Budget:	0
AWP Completion Date:	05311994
Revised Due Date:	Not reported
Comments Date:	05311994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	OU1FP
Proposed Budget:	0
AWP Completion Date:	01301993
Revised Due Date:	Not reported
Comments Date:	01301993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	INSTALLATION, DEVELOPMENT AND ACTIVATION OF SIX SCAVENGER PUMPS TO REMOVE FREE JP-4 FUEL PRODUCT FROM THE GROUNDWATER SURFACE AT SITE 16.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	OU1BV
Proposed Budget:	0
AWP Completion Date:	01301993
Revised Due Date:	Not reported
Comments Date:	01301993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	REMOVAL OF JP-4 FUEL IN THE VADOSE ZONE BY INJECTION OF AIR UNDER-GROUND TO PROVIDE OXYGEN TO NATIVE BACTERIA WHICH FEED ON PETROLEUM HYDROCARBONS.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	OU1PR
Proposed Budget:	0
AWP Completion Date:	01301992
Revised Due Date:	Not reported
Comments Date:	01301992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	CONSTRUCTION OF A NEW JP-4 JET FUEL PIPELINE TO REPLACE EXISTING PIPE-LINE FROM FUEL TANK FARM TO FLIGHT LINE WITH DOUBLE-WALLED PIPE WITHLEAK DETECTORS.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	04301991
Revised Due Date:	Not reported
Comments Date:	04301991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	02101987
Revised Due Date:	Not reported
Comments Date:	02101987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	BASWD
Proposed Budget:	0
AWP Completion Date:	12312010
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	15970001
Activity:	ORDER

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	FFA
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	10311990
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	SOUTH OF HIGHWAY 58
Alternate City,St,Zip:	MOJAVE, CA 93501
Alternate Address:	470 SQ MI; 60 MI NE OF LOS ANGELES, CA
Alternate City,St,Zip:	EDWARDS, CA 93523
Alternate Address:	6510 ABG/CC
Alternate City,St,Zip:	EDWARDS, CA 93523
Alternate Address:	AFFTC EDWARDS AFB
Alternate City,St,Zip:	EDWARDS, CA 93523
Alternate Address:	NE OF THE CITY OF LANCASTER
Alternate City,St,Zip:	MOJAVE, CA 93501
Background Info:	Edwards Air Force Base is an Air Force Command Test Center. The p rimary function of Edwards is to test new and existing air- craft and integrate them into the present Air Force inventory. The lan d area occupied by the base is 470 square miles. Within this lan d area there are 3 separate Air Force Bases, complete with runway s and infrastructure; the NASA Dryden Flight Test and Space Shutt le Recovery facilities; the 50+ square mile Phillips Laboratory r ocket test facility; the Precision Impact Range Area; and the Rog ers and Rosamond Dry Lake Beds. In the past, the base was the home of the U.S. Army Helicopter Flight Test Center and the NASA Jet Propulsion Laboratory. During World War II, the base trained P-38 fighter pilots and B-24 bombe crews. After World War II, th e base became a flight test center. The 469 discovered contaminat ed sites are divided into 10 Operable Units (OU): OU-1, Main Base Flightline; OU-2, South Base; OU-3, Basewide Water Wells; OU-4, Phillips Laboratory;OU-5, NASA/Jet Propulsion Laboratory; OU-6, N ASA/Dryden; OU-7, Basewide Miscellaneous; OU-8, NW Main Base Flig htline; OU-9, Phillips Lab- oratory (East); and OU-10, North Base . There is an extensive Archival Research Program underway to lo cate information leading to the identification of potential past chemical weapon activity on the base (40 + or - sites suspected). There is also an Under- ground Storage Tank removal program (70 0 USTs removed). In the summer of 1989, EPA listed Edwards on the National Priority List. A Federal Facility Agreement (FFA) b etween Edwards, EPA, RWQCB, and DTSC was negotiated and became ef

EDWARDS AIR FORCE BASE (Continued) **1000155217**

fective in October 1990.
Comments Date: 01052000
Comments: PEA - PRL10 -- Concurrance provided on PEA equivalent documents f
Comments Date: 01052000
Comments: or OU-4, areas of concern 122, 141, 170, and 171. PEA - PRL11 --
Comments Date: 01052000
Comments: Concurrance provided on PEA equivalent document for OU-5, area of
Comments Date: 01052000
Comments: concern 233.
Comments Date: 01281999
Comments: PEA - B8595 -- Investigation and closure of AOC's 170-172 in Buil
Comments Date: 01281999
Comments: ding 8595 in OU-4.
Comments Date: 01301992
Comments: RA (OU1PR): Construction of a new JP-4 jet fuel pipeline to repla
Comments Date: 01301992
Comments: ce existing pipeline from fuel tank farm to flight line (4.5 mile
Comments Date: 01301992
Comments: s) with double-walled pipe and leak detectors. No contaminated so
Comments Date: 01301992
Comments: il was removed with this action.
Comments Date: 01301993
Comments: RA (OU1BV): Removal of JP-4 fuel in the vadose zone by injection
Comments Date: 01301993
Comments: of air underground to provide oxygen to native bacteria which fee
Comments Date: 01301993
Comments: d on petroleum hydrocarbons. This process is being employed at S
Comments Date: 01301993
Comments: ite 16 - Fuel Spill and at Site 21 - Jet Engine test cell facilit
Comments Date: 01301993
Comments: y. RA (OU1FP): Installation, development and activation of six s
Comments Date: 01301993
Comments: cavenger pumps to remove free product from the groundwater surfac
Comments Date: 01301993
Comments: e at Site 16.
Comments Date: 02011999
Comments: DES - SIT14 -- Design for installing, operating, and evaluating t
Comments Date: 02011999
Comments: he groundwater extraction and treatment system at Site 14 in OU-2
Comments Date: 02011999
Comments: .
Comments Date: 02021999
Comments: DES - S223 -- Design for installing, operating and evaluating the
Comments Date: 02021999
Comments: SVE and air sparging systems at Site 223 in OU-2.
Comments Date: 02072001
Comments: PEA - PRL14 -- Concurrence provided on PEA equivalent documents f
Comments Date: 02072001
Comments: or Operable Unit #10, Area of Concern 243. PEA - PRL15 -- Concu
Comments Date: 02072001
Comments: rrence provided on PEA equivalent documents for Operable Unit #1,
Comments Date: 02072001
Comments: Sites 46, 55 and 366.
Comments Date: 02081983
Comments: Records Search: HWMB/Enforcement actively involved.
Comments Date: 02082001
Comments: PEA - PRL13 -- Concurrence provided on PEA equivalent documents f

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Comments Date:	02082001
Comments:	or Operable Unit #4, Site 12 and Areas of Concern 121, 155 and 16
Comments Date:	02082001
Comments:	4.
Comments Date:	02101987
Comments:	Site Screening Done.
Comments Date:	02261999
Comments:	PEA - PRL7 -- Concurrance provided on PEA - equivalent documents
Comments Date:	02261999
Comments:	for OU-10 sites 228, 232, and 256.
Comments Date:	03152001
Comments:	PEA - PRL16 -- Concurrence provided on PEA equivalent documents f
Comments Date:	03152001
Comments:	or Operable Unit #4, Site 150 and Area of Concern 168. PEA - PR
Comments Date:	03152001
Comments:	L17 -- Concurrence provided on PEA equivalent documents for Opera
Comments Date:	03152001
Comments:	ble Unit #7 Sites 4 and 34 and Areas of Concern 388 and 394. PE
Comments Date:	03152001
Comments:	A - PRL18 -- Concurrence provided on PEA equivalent documents for
Comments Date:	03152001
Comments:	Operable Unit #8,Site 2.
Comments Date:	03292002
Comments:	PEA - PRL27 -- No Further Investigation (NFI) documents signed by
Comments Date:	03292002
Comments:	the Edwards Air Force Base Remedial Project Manager for Operable
Comments Date:	03292002
Comments:	Unit 4- Air Force Research Laboratory Site Number 146 and for Op
Comments Date:	03292002
Comments:	erable Unit 9 - East Air Force Research Laboratory Site Number 37
Comments Date:	03292002
Comments:	6. The NFI determination for these site-specific actions means t
Comments Date:	03292002
Comments:	hat these Sites have been adequately investigated and that the re
Comments Date:	03292002
Comments:	sults justify the determination. PEA - PRL28 -- No Further Inve
Comments Date:	03292002
Comments:	stigation (NFI) documents signed by the Edwards Air Force Base Re
Comments Date:	03292002
Comments:	medial Project Manager for Operable Unit 7 - Basewide Miscellaneo
Comments Date:	03292002
Comments:	us Site Number 353 and Area of Concern (AOC) Numbers 268,368 and
Comments Date:	03292002
Comments:	371. The NFI determination for these site-specific actions means
Comments Date:	03292002
Comments:	that these Sites/AOCs have been adequately investigated and that
Comments Date:	03292002
Comments:	the results justify the determination. PEA - PRL29 -- No Furth
Comments Date:	06302003
Comments:	apor from seven wells. The cumulative mass of contaminants remov
Comments Date:	06302003
Comments:	ed during the reporting period was 472 pounds. Vapor flow rates
Comments Date:	06302003
Comments:	averaged approximately 42 standard cubic feet per minute (scfm) d
Comments Date:	06302003
Comments:	uring January to August 2002, and 84 scfm during September to Dec
Comments Date:	06302003

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Comments:	ember 2002 following expansion of the well field from three to se
Comments Date:	06302003
Comments:	ven wells. The SVE operating cost for the year 2002, excluding l
Comments Date:	06302003
Comments:	abor, was $95,172.
Comments Date:	07291998
Comments:	PEA - PRL4 -- Edwards AFB has adequately investigated the OU-2 Ol
Comments Date:	07291998
Comments:	d South Base PRL sites 72, 73, 78, 79, 84, 87, 98, 100, 101, 104,
Comments Date:	07291998
Comments:	290, 291 and 417 (collectively, PRL4) DTSC finds that the docume
Comments Date:	07291998
Comments:	nts are equivalent to a PEA document.
Comments Date:	08021999
Comments:	DES - STE18 -- Approval of dual extraction system design for inte
Comments Date:	08021999
Comments:	rim removal action to treat TCE contaminated soil and groundwater
Comments Date:	08021999
Comments:	.
Comments Date:	08031998
Comments:	RA - SRAM -- Time critical removal action taken to destroy short
Comments Date:	08031998
Comments:	range attack missile motor.
Comments Date:	08062004
Comments:	RA - S426 -- No Further Action recommendation following the compl
Comments Date:	08062004
Comments:	etion of a removal action at Site 426 in OU-7, documented in the
Comments Date:	08062004
Comments:	Site Interim Removal Action Report, March 2004. Site 426 is an h
Comments Date:	08062004
Comments:	istoric WWII Chemical Warfare Material Storage Yard near dormitor
Comments Date:	08062004
Comments:	ies where investigation delineated frou possible "trenches." An
Comments Date:	08062004
Comments:	excavation removal action conducted in 2002 identified no hazardo
Comments Date:	08062004
Comments:	us contaminants, only four sets of concrete "rails" which were re
Comments Date:	08062004
Comments:	moved.
Comments Date:	08241981
Comments:	Facility Identified: EPA Superfund Notification List.
Comments Date:	09172001
Comments:	PEA - PRL21 -- Concurrence provided on PEA equivalent document fo
Comments Date:	09172001
Comments:	r OU7, AOCs 261, 262, 263, 264, and 265. PEA - PRL22 -- Concurr
Comments Date:	09172001
Comments:	ence provided on PEA equivalent document for OU10, Site 279. PE
Comments Date:	09172001
Comments:	A - PRL23 -- Concurrence provided on PEA equivalent document for
Comments Date:	09172001
Comments:	OU2, AOCs 458, 459, and 460.
Comments Date:	09281999
Comments:	PEA - PRL8 -- Concurrence provided on PEA equivalent documents
Comments Date:	09281999
Comments:	for OU-3, Sites 409, 410, 411, and 416.
Comments Date:	09281999
Comments:	PEA - PRL9 -- Concurrence provided on PEA equivalent documents

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Comments Date:	09281999
Comments:	for OU-2, Sites 105, 109, 111, and 364.
Comments Date:	10011998
Comments:	PEA - PRL5 -- EAFB has adequately investigated the OU-5 NASA Jet
Comments Date:	10011998
Comments:	Propulsion laboratory PRL Sites 195, 200, 201, 243, 289 and 350 (
Comments Date:	10011998
Comments:	collectively, PRL5). DTSC finds that the documents are equivalen
Comments Date:	10011998
Comments:	t to a PEA document. PEA - PRL6 -- EAFB has adequately investig
Comments Date:	10011998
Comments:	ated the OU-2 Old South Base PRL Sites 75, 77, 89, 95, 97 and 99
Comments Date:	10011998
Comments:	(collectively, PRL6). DTSC finds that the documents are equivalen
Comments Date:	10011998
Comments:	t to a PEA document.
Comments Date:	10112001
Comments:	RAW - S426 -- RAP of Edwards Air Force Base operable unit 7, site
Comments Date:	10112001
Comments:	426, includes both the Engineering Evaluation/Cost Analysis and
Comments Date:	10112001
Comments:	Action Memorandum. The selected remedy for the chemical warfare
Comments Date:	10112001
Comments:	site is containment excavation.
Comments Date:	10152004
Comments:	This FS summarizes the backgrounds, plume characteristics, and re
Comments Date:	10152004
Comments:	medial action alternatives evaluated for sites recommended for re
Comments Date:	10152004
Comments:	medial action within Operable Unit 6 (OU-6). The report includes
Comments Date:	10152004
Comments:	preliminary cleanup goals, technical approach comparisons, and c
Comments Date:	10152004
Comments:	ost comparisons of applicable remedial alternatives. Sites in OU
Comments Date:	10152004
Comments:	-6 are not currently used for residential purposes, nor is such u
Comments Date:	10152004
Comments:	se anticipated; therefore, the FS focuses on industrial use consi
Comments Date:	10152004
Comments:	derations. The preferred alternative recommended for the Proposed
Comments Date:	10152004
Comments:	Plan is Source Control and Hydrologic Control with Groundwater M
Comments Date:	10152004
Comments:	onitoring.
Comments Date:	10172000
Comments:	RAW - S133 -- The proposed Interim Removal Action consists of the
Comments Date:	10172000
Comments:	extraction of groundwater contaminated with solvents, primarily
Comments Date:	10172000
Comments:	trichloroethlyene, and treatment by liquid phase granular activat
Comments Date:	10172000
Comments:	ed carbon. Treated effluent will be discharged to the Base's san
Comments Date:	10172000
Comments:	itary sewer system. A total of 43,200 gallons per day of groundw
Comments Date:	10172000
Comments:	ater will be extracted and treated.
Comments Date:	12042000

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Comments:	RAW - STE25 -- Concurrance on the proposed interim removal action
Comments Date:	12042000
Comments:	to treat groundwater contaminated with telchloroethylene and N-N
Comments Date:	12042000
Comments:	iprosodimethylamine. Extracted groundwater will be treated by ca
Comments Date:	12042000
Comments:	rbon absorption and discharged to EAFB's sanitary sewer.
Comments Date:	12132001
Comments:	PEA - PRL24 - Preliminary Endangerment Assessment (PEA) of Edward
Comments Date:	12132001
Comments:	s Air Force Base, Operable Unit 4, sites 7 and 174 and area of co
Comments Date:	12132001
Comments:	ncern 167, determined that these sites and of concern pose no env
Comments Date:	12132001
Comments:	ironmental or Human Health Threat. This document administratively
Comments Date:	12132001
Comments:	removes these sites from further investigation. PEA - PRL25 --
Comments Date:	12132001
Comments:	Preliminary Endangerment Assessment (PEA) Edwards Air Force Base
Comments Date:	12132001
Comments:	, Operable Unit 7, Sites 295, 434, 435, 436 441 and area of conce
Comments Date:	12132001
Comments:	rn 457, determined that these sites and area of concern pose no E
Comments Date:	12132001
Comments:	nvironmental or Human Health Threat. This document administrative
Comments Date:	12132001
Comments:	ly removes these sites from further investigation. PEA - PRL26
Comments Date:	12132001
Comments:	-- Preliminary Endangerment Assessment (PEA) Edwards Air Force Ba
Comments Date:	12132001
Comments:	se, Operable Unit 9, Site 179, determined that this site poses no
Comments Date:	12132001
Comments:	environmental or Human Health Threat. This document administrati
Comments Date:	12132001
Comments:	vely removes this site from further investigation.
Comments Date:	03292002
Comments:	er Investigation (NFI) documents signed by the Edwards Air Force
Comments Date:	03292002
Comments:	Base Remedial Project Manager for Operable Unit 4 - Air Force Res
Comments Date:	03292002
Comments:	earch Laboratory Site Number 7 and 146, and Area of Concern (AOC)
Comments Date:	03292002
Comments:	Number 167 and 174. The NFI determination for these site-specif
Comments Date:	03292002
Comments:	ic actions means that these Sites/AOCs have been adequately inves
Comments Date:	03292002
Comments:	tigated and that the results justify the determination.
Comments Date:	04212000
Comments:	PEA -- Concurrance provided on PEA equivalent documents for OU-3,
Comments Date:	04212000
Comments:	sites 30,412,413,414, and 415.
Comments Date:	04271999
Comments:	OM - OU-6 -- APPROVAL OF THE O&M PLAN FOR OU-6 SITES, N2, N3 AND
Comments Date:	04271999
Comments:	N7.
Comments Date:	05011986
Comments:	Records Search: Military air force base. Contaminants

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Comments Date:	05011986
Comments:	include JP-4, benzene, toluene, xylene, TCE, & PCE.
Comments Date:	05071998
Comments:	RAW - SIT9 -- The South Base abandoned landfill has been fenced a
Comments Date:	05071998
Comments:	nd will be monitored. RAW - SIT14 -- Groundwater at Site 14 con
Comments Date:	05071998
Comments:	taminated with petroleum hydrocarbon, volatile organics, and semi
Comments Date:	05071998
Comments:	-volatile organcis will be treated via extraction and treatment b
Comments Date:	05071998
Comments:	y liquid-phase granular activated carbon adsoption, then reinject
Comments Date:	05071998
Comments:	ed into the groundwater aquifer. RAW - S223 -- Petroleum hydroc
Comments Date:	05071998
Comments:	arbon contamination in soil and groundwater will be treated using
Comments Date:	05071998
Comments:	soil vapor extraction/vapor treatment for soils and air sparging
Comments Date:	05071998
Comments:	for groundwater. Monitoring of the system will also be required.
Comments Date:	05132003
Comments:	RA - STE25 -- This report summarizes the operational maintenance
Comments Date:	05132003
Comments:	and system sampling data collected during the period from Decembe
Comments Date:	05132003
Comments:	r 28, 2001 through July 1, 2002 for the Site 25 Groundwater Extra
Comments Date:	05132003
Comments:	ction and Treatment System (GETS), in Operable Unit No. 8. Durin
Comments Date:	05132003
Comments:	g the reporting period, approximately 4,483,000 gallons of ground
Comments Date:	05132003
Comments:	water were extracted and treated by the Site 25 GETS at an averag
Comments Date:	05132003
Comments:	e folwrate of 19.9 gallons per minute. 20.5 pounds (lbs.) of tri
Comments Date:	05132003
Comments:	chloroethene (TCE) were removed from treated groundwater. As of
Comments Date:	05132003
Comments:	July 1, 2002, the GETS removed a cumulative total of 28.7. lbs.
Comments Date:	05132003
Comments:	of TCE from treated groundwater. The treatment system effluent i
Comments Date:	05132003
Comments:	s discharged to the base sanitary sewer under an industrial waste
Comments Date:	05132003
Comments:	water discharge permit issued by Edwards Air Force Base (AFB).
Comments Date:	05311994
Comments:	PPP - DTSC approved a Public Participation Plan (revision) for Ed
Comments Date:	05311994
Comments:	wards Air Force Base.
Comments Date:	06011999
Comments:	RA - S223 -- Implementation of a SVE/Air sparging system to remed
Comments Date:	06011999
Comments:	iate fuel contaminated soil and groundwater.
Comments Date:	06041998
Comments:	RA - SIT29-- Removal action consisted of fencing the site for acc
Comments Date:	06041998
Comments:	ess restriction and conducting long - term groundwater monitoring
Comments Date:	06041998

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Comments:	.
Comments Date:	06082001
Comments:	PEA - PRL19 -- concurrence provided on PEA equivalent document fo
Comments Date:	06082001
Comments:	r OU4, Site 186.
Comments Date:	06111999
Comments:	RA - SIT14 -- Implementation of a GW extraction/treatment system
Comments Date:	06111999
Comments:	to remediate TCE contaminated GW. System implemented consists of
Comments Date:	06111999
Comments:	4 extraction wells and an above ground treatment system using ca
Comments Date:	06111999
Comments:	rbon adsorption.
Comments Date:	06112001
Comments:	PEA - PRL20 -- Concurrence provided on PEA equivalent documents f
Comments Date:	06112001
Comments:	or OU-5 sites 229, 235, 236, 238, 348, and 349 and AOCs 187, 190-
Comments Date:	06112001
Comments:	192, 230, 246, 251, 253, 281, 283, 287, 288, 403, 420 423.
Comments Date:	06272003
Comments:	RA - S133 -- Construction of the Groundwater Exttraction Treatmen
Comments Date:	06272003
Comments:	t System was completed between 01/09 and 04/18/2001 with testing
Comments Date:	06272003
Comments:	of the system during the week of 04/23/2001 and startup on 04/30/
Comments Date:	06272003
Comments:	2001. The system includes three groundwater extraction wells and
Comments Date:	06272003
Comments:	an aboveground treatment system that uses liquid-phase granular
Comments Date:	06272003
Comments:	activated carbon to remove volatile organic compounds (VOCs) in t
Comments Date:	06272003
Comments:	he extracted groundwater prior to discharge to the Air Force Rese
Comments Date:	06272003
Comments:	arch Laboratory (AFRL) sewage treatment plant. The system is des
Comments Date:	06272003
Comments:	igned for a maximum capacity of 50 gallons per minute (gpm); howe
Comments Date:	06272003
Comments:	ver, the volume of water extracted is limited by a discharge perm
Comments Date:	06272003
Comments:	it to 20 gpm.
Comments Date:	06282002
Comments:	PEA - PRL30 -- No Further Investigation (NFI) documents signed by
Comments Date:	06282002
Comments:	the Edwards Air Force Base Remedial Project Managers for Operabl
Comments Date:	06282002
Comments:	e Unit 7 - Basewide Miscellaneous Area of Concern (AOC) Number 40
Comments Date:	06282002
Comments:	0. The NFI determination for this site-specific action means tha
Comments Date:	06282002
Comments:	t the AOC has been adequately investigated and that the results j
Comments Date:	06282002
Comments:	ustify the determination. PEA - PRL31 -- No Futher Investigatio
Comments Date:	06282002
Comments:	n (NFI) documents signed by the Edwards Air Force Base Remedial P
Comments Date:	06282002
Comments:	roject Managers for Operable Unit 1 - Main Base Flight Line Site

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Comments Date: 06282002
Comments: Number 65. The NFI determination for this site-specific action m
Comments Date: 06282002
Comments: eans that the Site has been adequately investigated and that the
Comments Date: 06282002
Comments: results justify the determination. PEA - PRL32 -- No Further In
Comments Date: 06282002
Comments: vestigation (NFI) documents signed by the Edwards Air Force Base
Comments Date: 06282002
Comments: Remedial Project Managers for Operable Unit 2 - Ould South Base S
Comments Date: 06282002
Comments: ite Number 96. The NFI determination for this site-specific acti
Comments Date: 06282002
Comments: on means that this Site has been adequately investigated and that
Comments Date: 06282002
Comments: the results justify the determination.
Comments Date: 06302003
Comments: OM - S172 -- In January 2000, the Air Force implemented an interi
Comments Date: 06302003
Comments: m removal action (IRA) consisting of soil vapor extraction (SVE)
Comments Date: 06302003
Comments: at Site 172, the outdoor waste sump at Building 8595 in Operable
Comments Date: 06302003
Comments: Uit 4, Air Force Research Laboratory. The primary objective of th
Comments Date: 06302003
Comments: e IRA at Site 172 is to remove contaminant mass and reduce the fu
Comments Date: 06302003
Comments: rther migration of volatile organic compounds (VOCs) from contami
Comments Date: 06302003
Comments: nated soil into the Site 37 groundwater plume. The SVE system op
Comments Date: 06302003
Comments: erated with one well initially; two more wells were added in Augu
Comments Date: 06302003
Comments: st 2000. Four additional extraction wells were connected to the s
Comments Date: 06302003
Comments: ystem, which was brought on line September 12, 2002, extracting v
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CA1570024504
ID Name: BEP DATABASE PCODE
ID Value: P12020
Alternate Name: EDWARDS AFB
Alternate Name: EDWARDS AIR FORCE BASE
Alternate Name: Not reported
Special Programs Code: DSMOA
Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

DEED:
Envirostor ID: 15970001
Area: 4A - AFRL AREA
Sub Area: Not reported
Site Type: FEDERAL SUPERFUND
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 09/26/2007
File Name: Envirostor Land Use Restrictions

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Envirostor ID: 15970001
Area: 6 - OPERABLE UNIT 6, NASA DRYDEN
Sub Area: Not reported
Site Type: FEDERAL SUPERFUND
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 10/19/2006
File Name: Envirostor Land Use Restrictions

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

RAATS:

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 1 265.13(A)(3)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: .00
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 5 265.15(B)(2)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09
Issue Date:	06/09/1989
Final Date:	02/09/1989
Status:	Federal Facility Compliance Agreement
Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	6 265.16(A)(3)(V)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No:	1
Facility ID:	CA1570024504
Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09
Issue Date:	06/09/1989
Final Date:	02/09/1989
Status:	Federal Facility Compliance Agreement
Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	7 265.16(D)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No:	1
Facility ID:	CA1570024504
Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09
Issue Date:	06/09/1989
Final Date:	02/09/1989
Status:	Federal Facility Compliance Agreement
Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	8 265.16(E)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Entry No:	1
Facility ID:	CA1570024504
Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09
Issue Date:	06/09/1989
Final Date:	02/09/1989
Status:	Federal Facility Compliance Agreement
Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	9 265.32(A)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No:	1
Facility ID:	CA1570024504
Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09
Issue Date:	06/09/1989
Final Date:	02/09/1989
Status:	Federal Facility Compliance Agreement
Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	10 265.32(B)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No:	1
Facility ID:	CA1570024504
Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09
Issue Date:	06/09/1989
Final Date:	02/09/1989
Status:	Federal Facility Compliance Agreement
Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	11 265.32(D)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 12 265.33
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 13 265.34(A)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 14 265.35
Total No Cited: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 15 265.51(A)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 16 265.73(B)(2)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Violation No: Not reported
Viol No Cited: 17 265.73(B)(3)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 18 265.72(B)(6)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 19 265.75
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	20 265.112(B)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No:	1
Facility ID:	CA1570024504
Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09
Issue Date:	06/09/1989
Final Date:	02/09/1989
Status:	Federal Facility Compliance Agreement
Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	21 265.118(A)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No:	1
Facility ID:	CA1570024504
Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09
Issue Date:	06/09/1989
Final Date:	02/09/1989
Status:	Federal Facility Compliance Agreement
Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	22 265.173
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No:	1
Facility ID:	CA1570024504
Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 23 265.173(B)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 24 268.7
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504
Type: Not reported
Docket No: RCRA 09-89-0003
Region: 09
Issue Date: 06/09/1989
Final Date: 02/09/1989
Status: Federal Facility Compliance Agreement
Additional: Not reported
Action ID: 461
Action: Notice of Non-Compliance
Violation No: Not reported
Viol No Cited: 25 262.34(A)(2)
Total No Cited: Not reported
Reg Type: CFR
Prop. Penalty: *
Final Penalty: .00
Total Prop. Penalty: .00
Comments: FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No: 1
Facility ID: CA1570024504

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09
Issue Date:	06/09/1989
Final Date:	02/09/1989
Status:	Federal Facility Compliance Agreement
Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	2 265.13(B)(4)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No:	1
Facility ID:	CA1570024504
Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09
Issue Date:	06/09/1989
Final Date:	02/09/1989
Status:	Federal Facility Compliance Agreement
Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	3 265.14(C)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

Entry No:	1
Facility ID:	CA1570024504
Type:	Not reported
Docket No:	RCRA 09-89-0003
Region:	09
Issue Date:	06/09/1989
Final Date:	02/09/1989
Status:	Federal Facility Compliance Agreement
Additional:	Not reported
Action ID:	461
Action:	Notice of Non-Compliance
Violation No:	Not reported
Viol No Cited:	4 265.15(B)(1)
Total No Cited:	Not reported
Reg Type:	CFR
Prop. Penalty:	*
Final Penalty:	.00
Total Prop. Penalty:	.00
Comments:	FEDERAL FACILITY COMPLIANCE AGREEMENT SIGNED 6/9/89.

EDWARDS AIR FORCE BASE (Continued) **1000155217**

PRP:
PRP Name: STATE OF CALIFORNIA/DEPT. OF HEALTH SERVICES
STATE OF CALIFORNIA/DEPT. OF HEALTH SERVICES
STATE OF CALIFORNIA/DEPT. OF WATER QUALITY
STATE OF CALIFORNIA/DEPT. OF WATER QUALITY
U.S. AIR FORCE
U.S. AIR FORCE
U.S. EPA

ICIS:
Enforcement Action ID: CAKCAA200135770
FRS ID: 110000908466
Action Name: MSO for NOV# 101515
Facility Name: USAF - FTC EDWARDS
Facility Address: ALL FACILITIES (BEGIN)
EDWARDS, CA 93523
Enforcement Action Type: Administrative Order
Facility County: KERN
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 9661
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.94943
Longitude in Decimal Degrees: -117.8857
Permit Type Desc: Not reported
Program System Acronym: CAKCA0000602900531
Facility NAICS Code: 927110
Tribal Land Code: Not reported

Enforcement Action ID: CAKCAA200135768
FRS ID: 110000908466
Action Name: NOV# 101515
Facility Name: USAF - FTC EDWARDS
Facility Address: ALL FACILITIES (BEGIN)
EDWARDS, CA 93523
Enforcement Action Type: Notice of Violation
Facility County: KERN
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 9661
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.94943
Longitude in Decimal Degrees: -117.8857
Permit Type Desc: Not reported
Program System Acronym: CAKCA0000602900531
Facility NAICS Code: 927110
Tribal Land Code: Not reported

Enforcement Action ID: CAKCAA0000060290053100035
FRS ID: 110000908466
Action Name: USAF - FTC EDWARDS 060290053100035
Facility Name: USAF - FTC EDWARDS
Facility Address: ALL FACILITIES (BEGIN)
EDWARDS, CA 93523

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Enforcement Action Type:	Notice of Violation
Facility County:	KERN
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	9661
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.94943
Longitude in Decimal Degrees:	-117.8857
Permit Type Desc:	Not reported
Program System Acronym:	CAKCA0000602900531
Facility NAICS Code:	927110
Tribal Land Code:	Not reported

US AIRS (AFS):

Envid:	1000155217
Region Code:	09
County Code:	CA029
Programmatic ID:	AIR CAKCA0000602900531
Facility Registry ID:	110000908466
D and B Number:	Not reported
Facility Site Name:	USAF - FTC EDWARDS
Primary SIC Code:	9661
NAICS Code:	927110
Default Air Classification Code:	MAJ
Facility Type of Ownership Code:	FDF
Air CMS Category Code:	TVM
HPV Status:	Not reported

US AIRS (AFS):

Region Code:	09
Programmatic ID:	AIR CAKCA0000602900531
Facility Registry ID:	110000908466
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	MACT Standards (40 CFR Part 63)
Activity Date:	2008-08-21 00:00:00
Activity Status Date:	2008-09-23 17:19:32
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Active

Region Code:	09
Programmatic ID:	AIR CAKCA0000602900531
Facility Registry ID:	110000908466
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	MACT Standards (40 CFR Part 63)
Activity Date:	2015-05-21 00:00:00
Activity Status Date:	2016-05-12 18:59:04
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Active

Region Code:	09
Programmatic ID:	AIR CAKCA0000602900531

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:00:43
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:02:28
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2004-06-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2004-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2005-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2005-12-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2006-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2006-10-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2007-04-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2007-10-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2008-04-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2008-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2009-05-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 18:59:04
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:00:43
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:02:28
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1987-06-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1988-06-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1988-06-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1989-07-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1990-09-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1993-07-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1993-08-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1994-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1995-06-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1996-05-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1996-10-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1997-10-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1998-05-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1999-03-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1999-03-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1999-03-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 1999-04-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 2000-08-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2000-10-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2000-10-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2000-10-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2002-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2004-06-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2004-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2005-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2005-12-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2006-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2006-10-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2007-04-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2007-10-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2008-04-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2008-08-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2008-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2009-05-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2015-10-02 00:00:00
Activity Status Date: 2016-04-14 19:06:28
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 18:59:04
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:00:43
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:02:28
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1988-05-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1990-09-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1991-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1993-08-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1994-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1995-06-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1996-05-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1996-10-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1997-10-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1998-05-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1999-03-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1999-03-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1999-03-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1999-04-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2000-08-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2000-10-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2000-10-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 2000-10-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2002-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2004-06-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2004-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2005-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2005-12-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2006-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2006-10-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2007-04-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2007-10-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2008-04-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2008-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2009-05-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2016-06-02 00:00:00
Activity Status Date: 2016-06-02 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 18:59:04
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:00:43
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:02:28
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2004-06-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2004-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 2005-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2005-12-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2006-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2006-10-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2007-04-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2007-10-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2008-04-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2008-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: 2009-05-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Review Permit Requirements
Activity Date: Not reported
Activity Status Date: 2015-10-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1995-12-14 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-06-06 00:00:00
Activity Status Date: 2015-06-09 13:46:14
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 18:59:04
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:00:43
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:02:28
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-06-23 00:00:00
Activity Status Date: 2015-09-02 13:17:42
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1976-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-08-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1979-07-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 1979-08-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1980-06-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1981-07-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1982-01-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1982-07-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-06-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-08-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-08-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-05-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-06-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-06-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-07-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-09-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-09-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-08-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-06-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-05-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 1996-10-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-10-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-05-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-03-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-03-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-03-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-04-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-08-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-10-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-10-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-10-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-06-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-12-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-10-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-04-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 2007-10-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-04-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-05-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-12-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-05-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-05-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-05-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-10-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-03-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-06-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-07-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-03-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 2013-06-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-06-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-05-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-05-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-06-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-06-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-08-09 00:00:00
Activity Status Date: 1995-08-09 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-10-02 00:00:00
Activity Status Date: 2016-04-14 19:06:28
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-06-06 00:00:00
Activity Status Date: 2015-06-09 13:46:14
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-02-19 00:00:00
Activity Status Date: 2015-07-03 15:48:16
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-02-19 00:00:00
Activity Status Date: 2016-07-25 18:30:49
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 18:59:04
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:00:43
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-05-21 00:00:00
Activity Status Date: 2016-05-12 19:02:28
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 2015-06-23 00:00:00
Activity Status Date: 2015-09-02 13:17:42
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1997-10-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-05-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-03-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-03-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-03-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-04-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-08-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-10-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-10-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-10-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-12-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-11-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-05-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-06-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-07-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-09-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-01-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 2003-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-03-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-04-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-04-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-05-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-06-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-06-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-07-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-12-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-05-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-06-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-05-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-12-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-04-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-10-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 2007-04-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-10-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-04-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-05-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-12-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-05-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-05-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-05-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-10-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-03-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-06-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-06-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-06-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-07-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Activity Date: 2013-03-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-06-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-06-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-05-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-05-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-06-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-06-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-06-02 00:00:00
Activity Status Date: 2016-06-02 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CAKCA0000602900531
Facility Registry ID: 110000908466
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2015-10-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

DOCKET HWC:
Agency: AIR FORCE
Facility ID: CA1570024504
Reporting Mechanism: RCRA 3005
Status: On MDL

ICE:

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Envirostor ID: 3000601
EPA ID: CA1570024504
Site Type: INSPECTION
Facility Status: No Action

Inspection:
Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 11/26/2018
Violation Class: Minor
RTC Date: 12/04/2018

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 11/18/2014
Violation Class: Class 2
RTC Date: 11/20/2014

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 12/20/2016
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 11/14/2017
Violation Class: Class 2, Minor
RTC Date: 12/15/2017

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/14/2016
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 12/10/2013
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 04/16/2013
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 04/02/2012
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 02/07/2007
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 09/30/2009
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 09/14/2004

EDWARDS AIR FORCE BASE (Continued) **1000155217**

Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 02/16/1999
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/27/2000
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 04/12/2011
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 11/19/2008
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 03/04/2008
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 11/19/2003
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 11/06/2001
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 12/12/2005
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/13/2001
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 11/20/2002
Violation Class: No Violations
RTC Date: Not reported

DOD **EDWARDS AIR FORCE BASE** **DOD** **CUSA140697**
Region **N/A**
Target Property **EDWARDS AIR FORCE BASE (County), CA**

Focus Map: 8,9,10,11,16,17,18,19,22,20,21

DOD:
Feature 1: Air Force DOD
Feature 2: Not reported
Feature 3: Not reported
UID: Not reported
Name 1: Edwards Air Force Base
Name 2: Not reported
Name 3: Not reported
State: CA
DOD Site: Yes
Tile name: CAKERN

A1 **ROCKET SITE MINI MARKET(TANKS REMOV** **UST** **U004113253**
Target Property **24009 TWENTY MULE TEAM RD** **N/A**
BORON, CA 93516

Site 1 of 6 in cluster A

Actual: 2395 ft.

Focus Map: 11

KERN CO. UST:
Region: Kern
Facility ID: Not reported
CERSID: Not reported
Owner Id: 560005
Owner Name: KANG, JYE HOON

Tank Num: 1
Tank Capacity: 0
Common Name: Not reported
Description: Not reported
Number of Compartments: Not reported
Date of Closure: Not reported
Mailing Address: Not reported
Mailing Address (care of): Not reported
Mailing City/State/Zip: Not reported

Tank Num: 560005
Tank Capacity: 8,000
Common Name: Not reported
Description: PREMIUM UNLEADED
Number of Compartments: Not reported
Date of Closure: 04/13/1999
Mailing Address: PO BOX 1113
Mailing Address (care of): TANKS REMOVED.
Mailing City/State/Zip: KERNVILLE, CA 93516

Tank Num: 560005
Tank Capacity: 10,000
Common Name: Not reported
Description: REGULAR UNLEADED
Number of Compartments: Not reported
Date of Closure: 04/13/1999
Mailing Address: PO BOX 1113
Mailing Address (care of): TANKS REMOVED.

ROCKET SITE MINI MARKET(TANKS REMOV (Continued) **U004113253**

Mailing City/State/Zip: KERNVILLE, CA 93516

Tank Num: 560005
Tank Capacity: 8,000
Common Name: Not reported
Description: REGULAR UNLEADED
Number of Compartments: Not reported
Date of Closure: 04/13/1999
Mailing Address: PO BOX 1113
Mailing Address (care of): TANKS REMOVED.
Mailing City/State/Zip: KERNVILLE, CA 93516

A2 **GEORGE GIBSON** **HAZNET** **S112899955**
Target **24009 TWENTY MULETEAM RD** **N/A**
Property **BORON, CA 93516**

Site 2 of 6 in cluster A

Actual: **2395 ft.**
Focus Map: **11**

HAZNET:
Facility Name: GEORGE GIBSON
envid: S112899955
Year: 1999
GEPAID: CAC002136401
Contact: GEORGE GIBSON
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: PO BOX 1113
Mailing City,St,Zip: KERNVILLE, CA 932380000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Tons: 3.9406
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Kern

A3 **ROCKET SITE MINI-MART** **EDR Hist Auto** **1020191891**
Target **24009 TWENTY MULE TEAM RD** **N/A**
Property **BORON, CA 93516**

Site 3 of 6 in cluster A

Actual: **2395 ft.**
Focus Map: **11**

EDR Hist Auto

Year:	Name:	Type:
1982	ROCKET SITE INI-MART	Gasoline Service Stations
1983	ROCKET SITE MINI-MART	Gasoline Service Stations
1985	ROCKET SITE MINI-MART	Gasoline Service Stations
1986	ROCKET SITE MINI-MART	Gasoline Service Stations
1987	ROCKET SITE MINI-MART	Gasoline Service Stations
1988	ROCKET SITE MINI-MART	Gasoline Service Stations
1989	ROCKET SITE MINI-MART	Gasoline Service Stations, NEC
1990	ROCKET SITE MINI-MART	Gasoline Service Stations, NEC

ROCKET SITE MINI-MART (Continued) **1020191891**

1991	ROCKET SITE MINI-MART	Gasoline Service Stations, NEC
1992	ROCKET SITE MINI-MART	Gasoline Service Stations, NEC
1993	ROCKET SITE MINI-MART	Gasoline Service Stations, NEC
1994	ROCKET SITE MINI-MART	Gasoline Service Stations, NEC
1995	ROCKET SITE MINI-MART	Gasoline Service Stations, NEC
1996	ROCKET SITE MINI-MART	Gasoline Service Stations, NEC
1997	ROCKET SITE MINI-MART	Gasoline Service Stations, NEC
1998	ROCKET SITE MINI-MART	Gasoline Service Stations, NEC

A4 **ROCKET SITE MINI MART** **HIST UST** **S105770688**
Target **24009 20 MULE TEAM RD** **N/A**
Property **BORON, CA 93516**

Site 4 of 6 in cluster A

Actual: **2395 ft.**

Focus Map: **11**

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000054476
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	GEORGE GIBSON
Telephone:	6197626737
Owner Name:	GEORGE G. & MILDRED C. GIBSON
Owner Address:	24009 20 MULE TEAM ROAD
Owner City,St,Zip:	BORON, CA 93516
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	1981
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1981
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	1981
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

A5
Target Property

ROCKET SITE MINI MART
24009 20 MULE TEAM RD
BORON, CA 93516

SWEEPS UST
HIST UST
CA FID UST

S101620896
N/A

Site 5 of 6 in cluster A

Actual:
2395 ft.

Focus Map:
11

SWEEPS UST:

Status:	Active
Comp Number:	54476
Number:	9
Board Of Equalization:	44-006377
Referral Date:	10-15-93
Action Date:	10-19-93
Created Date:	09-30-89
Owner Tank Id:	1
SWRCB Tank Id:	15-000-054476-000001
Tank Status:	A
Capacity:	10000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	3

Status:	Active
Comp Number:	54476
Number:	9
Board Of Equalization:	44-006377
Referral Date:	10-15-93
Action Date:	10-19-93
Created Date:	09-30-89
Owner Tank Id:	2
SWRCB Tank Id:	15-000-054476-000002
Tank Status:	A
Capacity:	8000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	54476
Number:	9
Board Of Equalization:	44-006377
Referral Date:	10-15-93
Action Date:	10-19-93
Created Date:	09-30-89
Owner Tank Id:	3
SWRCB Tank Id:	15-000-054476-000003
Tank Status:	A
Capacity:	8000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

ROCKET SITE MINI MART (Continued) **S101620896**

HIST UST:

File Number:	00024913
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00024913.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	15005082
Regulated By:	UTNKA
Regulated ID:	00054476
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	6197626737
Mail To:	Not reported
Mailing Address:	24009 20 MULE TEAM RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BORON 93516
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

A6 **MIKE'S AUTOMOTIVE** **HAZNET** **S113114432**
Target **24045 TWENTY MULE TEAM RD** **N/A**
Property **BORON, CA 93516**

Site 6 of 6 in cluster A

Actual: 2395 ft.

Focus Map: 11

HAZNET:

Facility Name:	MIKE'S AUTOMOTIVE
envid:	S113114432
Year:	2011
GEPAID:	CAL000226267
Contact:	PAT RAMSEY
Telephone:	7607626979

MIKE'S AUTOMOTIVE (Continued) **S113114432**

Mailing Name:	Not reported
Mailing Address:	24045 TWENTY MULE TEAM RD
Mailing City,St,Zip:	BORON, CA 935160000
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.05838
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Kern

---

7 **TLRR KRAMER-HOLGATE 336389 REPLACEMENT PROJECT** **CIWQS** **S121682441**
Target Property **NORTH OF HWY 58 AT BORAX ROAD BORON** **N/A**
BORON, CA 93596

Actual: 2503 ft.
Focus Map: 13

CIWQS:

Agency:	Southern California Edison
Agency Address:	2244 Walnut Grove Ave GO 1 Quad 2C, Rosemead, CA 91770
Place/Project Type:	Construction - Above Ground, Electrical, Below Ground
SIC/NAICS:	Not reported
Region:	6V
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	6B15C381379
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	10/11/2017
Termination Date:	02/05/2018
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.990805
Longitude:	-117.646943

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8 **BORON CLASS III LANDFILL** **WMUDS/SWAT** **S101612513**
Target Property **5 MI SO OF BORON** **LDS** **N/A**
BORON CA, CA 93516 **ENF**
WDS
CIWQS

Actual: 2506 ft.
Focus Map: 13

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

BORON CLASS III LANDFILL (Continued) **S101612513**

Primary Waste:	SLDWST
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	SB
NPID:	Not reported
Tonnage:	32
Regional Board ID:	Not reported
Municipal Solid Waste:	True
Superorder:	True
Open To Public:	False
Waste List:	True
Agency Type:	County
Agency Name:	KERN CO DPW
Agency Department:	Not reported
Agency Address:	2700 M ST STE 500
Agency City,St,Zip:	BAKERSFIELD CA 93301
Agency Contact:	DAWN HANSEN
Agency Telephone:	8058625105
Land Owner Name:	KERN COUNTY
Land Owner Address:	2601 "O" ST.
Land Owner City,St,Zip:	BAKERSFIELD, CA 93301
Land Owner Contact:	Not reported
Land Owner Phone:	8058612621
Region:	6V
Facility Type:	Solid Waste Site-Class III - Landfills for non hazardous solid wastes.
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	BORON SANITARY LANDFILL
Primary SIC:	4953
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	KERN COUNTY PUBLIC WORKS DEPT.
Threat to Water Quality:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Sub Chapter 15:	True
Regional Board Project Officer:	Not reported
Number of WMUDS at Facility:	1
Section Range:	10N07W05
RCRA Facility:	No
Waste Discharge Requirements:	A
Self-Monitoring Rept. Frequency:	Semiannual Submittal
Waste Discharge System ID:	6B150303003

BORON CLASS III LANDFILL (Continued) **S101612513**

Solid Waste Information ID: 15-AA-0045

LDS:

Global Id:	L10004638786
Latitude:	34.99048
Longitude:	-117.6483
Case Type:	Land Disposal Site
Status:	Open - Operating
Status Date:	05/11/1984
Lead Agency:	LAHONTAN RWQCB (REGION 6V)
Caseworker:	TS
Local Agency:	Not reported
RB Case Number:	6B150303003
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Not reported
EDR Link ID:	L10004638786
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

ENF:

Region:	6B
Facility Id:	210078
Agency Name:	Not reported
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	34.99028
Place Longitude:	-117.6475
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported

BORON CLASS III LANDFILL (Continued) **S101612513**

Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	LNDISP
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	403552
Region:	6B
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	11/03/2015
Adoption/Issuance Date:	11/03/2015
Achieve Date:	Not reported
Termination Date:	11/04/2015
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 11/03/2015 for Kern Cnty Waste Management Dept
Description:	Discharger was contacted 11/4/2015 and requested to include time series plots and tabulated water quality and soil gas monitoring data in all future monitoring reports. See attached email.
Program:	LFOPER
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0

BORON CLASS III LANDFILL (Continued) **S101612513**

Total $ Paid/Completed Amount:	0
Region:	6B
Facility Id:	210078
Agency Name:	Kern County Public Works Department
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	County Agency
# Of Agencies:	1
Place Latitude:	34.99028
Place Longitude:	-117.6475
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	3
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LFOPER
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B150303003
Reg Measure Id:	132048
Reg Measure Type:	WDR
Region:	6B
Order #:	R6V-2002-052
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	05/05/2016
Effective Date:	09/11/2002
Expiration/Review Date:	Not reported
Termination Date:	02/10/2016
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported

BORON CLASS III LANDFILL (Continued) **S101612513**

WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	50 - Land Disposal Site paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	256931
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	09/06/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	01/06/2003
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B150303003
Description:	Directed discharger to sample and analyze ground water from monitoring wells for radioactive constituents. Discharger to submit report of findings to Regional Board by 1-3-03 pursuant to 9-6-02, 13267 letter. No further action is required. *Status changed to Historical 09/10/2014 (jmz); per information contained in Project file, compliance was achieved 01/06/2003
Program:	LFOPER
Latest Milestone Completion Date:	2003-01-06
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

WDS:

Facility ID:	South Lahontan 150303003
Facility Type:	Solid Waste Site-Class III - Landfills for non hazardous solid wastes.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	Not reported
Subregion:	0
Facility Telephone:	6618628900
Facility Contact:	DAVE PALMER
Agency Name:	KERN CO DPW
Agency Address:	2700 M ST STE 500
Agency City,St,Zip:	BAKERSFIELD 93301
Agency Contact:	ERIC GREENWOOD
Agency Telephone:	6618628918
Agency Type:	County
SIC Code:	4953
SIC Code 2:	Not reported
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and

BORON CLASS III LANDFILL (Continued) **S101612513**

	liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Primary Waste:	SLDWST
Waste Type2:	Not reported
Waste2:	Solid Wastes
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.
Facility ID:	South Lahontan 15I013466
Facility Type:	Solid Waste Site-Class III - Landfills for non hazardous solid wastes.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	0
Facility Telephone:	6618628900
Facility Contact:	DAVE PALMER
Agency Name:	KERN CO DPW
Agency Address:	2700 M ST STE 500
Agency City,St,Zip:	BAKERSFIELD 93301
Agency Contact:	ERIC GREENWOOD
Agency Telephone:	6618628918
Agency Type:	County
SIC Code:	4953
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported

BORON CLASS III LANDFILL (Continued) **S101612513**

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CIWQS:

Agency:	Kern County Public Works Department
Agency Address:	2700 M Street 500, Bakersfield, CA 93301-2372
Place/Project Type:	Land fill
SIC/NAICS:	4953
Region:	6V
Program:	LFOPER, LNDISP
Regulatory Measure Status:	Active
Regulatory Measure Type:	WDR
Order Number:	R6V-2016-0004
WDID:	6B150303003
NPDES Number:	Not reported
Adoption Date:	02/11/2016
Effective Date:	02/11/2016
Termination Date:	Not reported
Expiration/Review Date:	02/11/2031
Design Flow:	0
Major/Minor:	Not reported
Complexity:	B
TTWQ:	3
Enforcement Actions within 5 years:	1
Violations within 5 years:	9
Latitude:	34.99028
Longitude:	-117.6475

Agency:	Kern County Public Works Department
Agency Address:	2700 M St Ste 500, Bakersfield, CA 93301
Place/Project Type:	Industrial - Refuse Systems
SIC/NAICS:	4953
Region:	6V
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	6B15I013466
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	10/15/1997
Termination Date:	05/22/2013
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported

BORON CLASS III LANDFILL (Continued) **S101612513**

Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 34.99942
Longitude: -117.64978

B9 **KERN COUNTY PUBLIC WORKS DEPARTMENT** **SWF/LF** **S104889754**
Target **11400 BORON AVENUE** **HAULERS** **N/A**
Property **BORON, CA 93516** **Financial Assurance**
HAZNET

Site 1 of 6 in cluster B

Actual: **2503 ft.**
Focus Map: **13**

SWF/LF (SWIS):
Facility ID: 15-AA-0045
Lat/Long: 34.99028 / -117.6475
Owner Name: County of Kern
Owner Telephone: 6618628900
Owner Address: Not reported
Owner Address2: 1115 Truxten Ave
Owner City,St,Zip: Bakerfield, CA 93301
Operational Status: Active
Operator: Kern County Public Works Department
Operator Phone: 6618628900
Operator Address: Not reported
Operator Address2: 2700 "M" St., Suite 450
Operator City,St,Zip: Bakersfield, CA 93301
Permit Date: 06/19/2014
Permit Status: Permitted
Permitted Acreage: $120.20
Activity: Solid Waste Landfill
Regulation Status: Permitted
Landuse Name: Rural,Agricultural
GIS Source: GPS
Category: Disposal
Unit Number: 01
Inspection Frequency: Monthly
Accepted Waste: Ash,Construction/demolition,Dead Animals,Industrial,Mixed municipal
Closure Date: 01/01/2048
Closure Type: Estimated
Disposal Acreage: $14.10
SWIS Num: 15-AA-0045
Waste Discharge Requirement Num: III
Program Type: BOE Reporting Disposal Facility,Financial Assurance Responsibilities,Remaining Capacity Landfill
Permitted Throughput with Units: 200
Actual Throughput with Units: Tons/day
Permitted Capacity with Units: 1057000
Remaining Capacity: 94851
Remaining Capacity with Units: Cubic Yards
Lat/Long: 34.99028 / -117.6475

HAULERS:
Facility ID: 1102516
Facility Phone: (661) 862-8900
Business Email Address: Not reported
Contact Person: Sergio Furtado, Gary Register
Mailing Address: 2700 M St Ste 500
Mailing City: Bakersfield

KERN COUNTY PUBLIC WORKS DEPARTMENT (Continued) **S104889754**

Mailing State:	CA
Mailing Zip:	93301-2372
Mailing County:	Kern
Mailing Phone:	Not reported
Waste Tire Permit Summary:	No Permit record for this business.

CA Financial Assurance 2:

Region:	2
SWIS_NO:	15-AA-0045
Closure Approved:	Yes
Closure Inf Coverage Date:	05/29/2015
Closure Plan Coverage:	$1,251,427.00
Closure Plan Date:	12/13/2013
PostClose Approved:	Yes
PostClose Adequacy Date:	12/13/2013
PostClose Inf Coverage:	$1,164,510.00
PostClose Inf Coverage Date:	05/29/2015
CorActCoverage:	$234,898.00
CorActApproved:	Yes
CorAct Mec Adequacy Date:	Not reported
CorAct Inf Coverage:	$234,898.00
CorActPlanCoverage:	$228,007.00
CorAct Plan Date:	05/15/2013
Lia Coverage:	$3,000,000.00
Lia Approved:	Yes
Review:	01/22/2016
Closure Mechanism A:	ENTERPRISE FUND
Closure Mechanism B:	Not reported
Closure Coverage:	$1,078,524.00
Closure Adequacy:	Not reported
Closure Inflation Estimate:	$1,270,198.00
Post Closure Mechanism A:	PLEDGE OF REVENUE
Post Closure Established A:	04/05/1994
Post Closure Mechanism B:	Not reported
Post Closure Coverate:	$1,164,510.00
Post Closure Adequacy:	Not reported
Corrective Action Extablished A:	09/11/2012
Corrective Actiont Coverage:	$234,898.00
Corrective Action Approved:	Yes
Corrective Action Inflation Estimate:	$234,898.00
Corrective Action Inflationdate:	05/29/2015
Corrective Action Plan Estimate:	$228,007.00
Liability Mechanism A:	SELF-INS. & RISK MANAGEMENT
Liability Established A:	08/14/2013
Liability Mechanism B:	Not reported
CostAnniversary:	05/29/2015
ClosureEstablishedA:	10/30/1990
ClosureEstablishedB:	Not reported
ClosureDisbursement:	0
PostClosureEstablishedB:	Not reported
PostClosureDisbursement:	0
CorrectiveActionMechanismA:	PLEDGE OF REVENUE
CorrectiveActionMechanismB:	Not reported
CorrectiveActionExtablishedB:	Not reported
CorrectiveActiontDisbursement:	0
LiabilityEstablishedB:	Not reported
LiabilityAdequacy:	Not reported

KERN COUNTY PUBLIC WORKS DEPARTMENT (Continued) **S104889754**

Responsible Party: Not reported
Provider: Not reported
Contact: Not reported

HAZNET:
Facility Name: KERN COUNTY PUBLIC WORKS DEPARTMENT
envid: S104889754
Year: 2016
GEPAID: CAH111000199
Contact: LYNETTE BEURMANN
Telephone: 8058612159
Mailing Name: Not reported
Mailing Address: 2700 M STREET
Mailing City,St,Zip: BAKERSFIELD, CA 933010000
Gen County: Kern
TSD EPA ID: CAH111000385
TSD County: Kern
Waste Category: Household waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.625
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Kern

B10 **KCWMD - BORON LANDFILL** **FINDS** **1023300979**
Target **11400 BORON AVE** **N/A**
Property **BORON, CA 93516**

Site 2 of 6 in cluster B

Actual: 2503 ft.

FINDS:

Focus Map: 13

Registry ID: 110065930559

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

B11 **BORON SANITARY LANDFILL** **ECHO** **1024155960**
Target **11400 BORON AVENUE** **N/A**
Property **BORON, CA 93516**

Site 3 of 6 in cluster B

Actual: 2503 ft.

ECHO:
Envid: 1024155960
Registry ID: Not reported

Focus Map: 13

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=CAH111000199

B12 **BORON SANITARY LANDFILL** **RGA LF** **S114725454**
Target **11400 BORON AVENUE** **N/A**
Property **BORON, CA**

Site 4 of 6 in cluster B

Actual: **2503 ft.**

Focus Map: **13**

RGA LF:

2012	BORON SANITARY LANDFILL	11400 BORON AVENUE
2011	BORON SANITARY LANDFILL	11400 BORON AVENUE
2010	BORON SANITARY LANDFILL	11400 BORON AVENUE
2009	BORON SANITARY LANDFILL	11400 BORON AVENUE
2008	BORON SANITARY LANDFILL	11400 BORON AVENUE
2007	BORON SANITARY LANDFILL	11400 BORON AVENUE
2006	BORON SANITARY LANDFILL	11400 BORON AVENUE
2005	BORON SANITARY LANDFILL	11400 BORON AVENUE
2004	BORON SANITARY LANDFILL	11400 BORON AVENUE
2003	BORON SANITARY LANDFILL	11400 BORON AVENUE
2002	BORON SANITARY LANDFILL	11400 BORON AVENUE
2001	BORON SANITARY LANDFILL	11400 BORON AVENUE

B13 **BORON SANITARY LANDFILL** **FINDS** **1006328376**
Target **11400 BORON AVENUE** **N/A**
Property **BORON, CA 93516**

Site 5 of 6 in cluster B

Actual: **2503 ft.**

Focus Map: **13**

FINDS:

Registry ID: 110012695299

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CASWIS (California Solid Waste Integrating System). California's solid waste facility list that contains information on solid waste facilities, operations, and open and closed disposal sites throughout the state.

UORS (California - Used Oil Recycling System). California Integrated Waste Management Board (CIWMB) helps communities establish and promote convenient collection opportunities for used oil and used oil filters.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

B14 **BORON SLF** **FINDS** **1017372288**
Target **11400 BORON AVENUE** **N/A**
Property **BORON, CA 93516**

Site 6 of 6 in cluster B

Actual: FINDS:
2503 ft.

Focus Map: Registry ID: 110060756882
13

Environmental Interest/Information System
LANDFILL GAS (LFG) RECOVERY

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

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15 **EDWARDS AIR FORCE BASE - 7 - AOC 371** **MCS** **S110167675**
Target **N/A**
Property **EDWARDS AFB, CA 93524**

MCS:

Actual: Global Id: DOD100133200
2455 ft. Latitude: 34.99006
Longitude: -117.7004
Focus Map: Case Type: Military Cleanup Site
11 Status: Open - Inactive
Status Date: 04/06/2010
Lead Agency: LAHONTAN RWQCB (REGION 6V)
Caseworker: AP
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
RB Case Number: 166-60 -- 143
LOC Case Number: 100052 -- 143
File Location: Not reported
Potential Media Affect: Not reported
EDR Link ID: DOD100133200
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

C16 **OFF BASE ADJACENT AREA 2 (EAST & WEST)** **UXO** **1018151638**
Target **N/A**
Property **EDWARDS AFB, CA**

Site 1 of 2 in cluster C

Actual: UXO:
2500 ft. DoD Component: Air Force
Installation Name: EDWARDS AIR FORCE BASE
Focus Map: Facility Address 2: Not reported
12 Site ID: AL5052A
Site Type: Air to Land
Latitude: 34.990000
Longitude: -117.660000

C17 **OFF BASE ADJACENT AREA 2 (CENTRAL)** **UXO** **1018151634**
Target Property **EDWARDS AFB, CA** **N/A**

Site 2 of 2 in cluster C

Actual: 2500 ft.
Focus Map: 12

UXO:

DoD Component:	Air Force
Installation Name:	EDWARDS AIR FORCE BASE
Facility Address 2:	Not reported
Site ID:	AL505-2
Site Type:	Air to Land
Latitude:	34.990000
Longitude:	-117.660000

---

18 **MOJAVE COGENERATION II** **RCRA-SQG** **1000819838**
ENE **BORAX RD 3/4 MI N OF HWY 58** **CAD983658519**
< 1/8 **BORON, CA 93516**
0.016 mi.
86 ft.

Actual: 2393 ft.
Focus Map: 11

RCRA-SQG:

Date form received by agency:	04/04/2016
Facility name:	MOJAVE COGENERATION II
Facility address:	BORAX RD 3/4 MI N OF HWY 58 BORON, CA 93516
EPA ID:	CAD983658519
Mailing address:	MAIN ST STE 200 PARK RIDGE, IL 60068
Contact:	DR. TED D GUTH
Contact address:	EL CANTO SPRING VALLEY, CA 91977
Contact country:	US
Contact telephone:	619-987-1111
Contact email:	DRTEDGUTH@AOL.COM
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	LAKESHORE MOJAVE LLC
Owner/operator address:	MAIN ST STE 200 PARK RIDGE, IL 60068
Owner/operator country:	US
Owner/operator telephone:	847-514-1024
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2010
Owner/Op end date:	Not reported
Owner/operator name:	LAKESHORE MOJAVE LLC
Owner/operator address:	Not reported

MOJAVE COGENERATION II (Continued) **1000819838**

Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2010
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

Waste type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

Waste type: Pesticides
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

Waste type: Thermostats
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: P115
. Waste name: SULFURIC ACID, DITHALLIUM(1+) SALT

Historical Generators:
Date form received by agency: 06/24/2010
Site name: MOJAVE COGENERATION II
Classification: Small Quantity Generator

MOJAVE COGENERATION II (Continued) **1000819838**

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Date form received by agency: 01/28/1993
Site name: MOJAVE COGENERATION CO
Classification: Small Quantity Generator

Violation Status: No violations found

D19 **KNOTTS TEXACO SERVICE** **CA FID UST** **S101620895**
North **27195 20 M T RD** **N/A**
< 1/8 **BORON, CA 93516**
0.078 mi.
412 ft. **Site 1 of 5 in cluster D**

Actual:
2470 ft.

Focus Map:
13

CA FID UST:
Facility ID: 15004804
Regulated By: UTNKA
Regulated ID: 00024209
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 6197626233
Mail To: Not reported
Mailing Address: 27195 20 M T RD
Mailing Address 2: Not reported
Mailing City,St,Zip: BORON 93516
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

20
North
< 1/8
0.086 mi.
455 ft.

JIMS MOBIL SERV
27127 TWENTY MULE TEAM RD
BORON, CA 93516

UST **U004224896**
N/A

Actual:
2466 ft.

Focus Map:
13

KERN CO. UST:

Region:	Kern
Facility ID:	FA0003177
CERSID:	Not reported
Owner Id:	Not reported
Owner Name:	Not reported
Tank Num:	560006
Tank Capacity:	10,000
Common Name:	Not reported
Description:	PREMIUM UNLEADED
Number of Compartments:	Not reported
Date of Closure:	08/15/2000
Mailing Address:	27127 TWENTY MULE TEAM RD
Mailing Address (care of):	JAMES SUMMERS
Mailing City/State/Zip:	BORON, CA 93516
Tank Num:	560006
Tank Capacity:	10,000
Common Name:	Not reported
Description:	DIESEL
Number of Compartments:	Not reported
Date of Closure:	08/15/2000
Mailing Address:	27127 TWENTY MULE TEAM RD
Mailing Address (care of):	JAMES SUMMERS
Mailing City/State/Zip:	BORON, CA 93516
Tank Num:	560006
Tank Capacity:	500
Common Name:	Not reported
Description:	USED OIL
Number of Compartments:	Not reported
Date of Closure:	08/15/2000
Mailing Address:	27127 TWENTY MULE TEAM RD
Mailing Address (care of):	JAMES SUMMERS
Mailing City/State/Zip:	BORON, CA 93516
Tank Num:	560006
Tank Capacity:	10,000
Common Name:	Not reported
Description:	REGULAR UNLEADED
Number of Compartments:	Not reported
Date of Closure:	08/15/2000
Mailing Address:	27127 TWENTY MULE TEAM RD
Mailing Address (care of):	JAMES SUMMERS
Mailing City/State/Zip:	BORON, CA 93516
Tank Num:	560006
Tank Capacity:	10,000

JIMS MOBIL SERV (Continued) **U004224896**

Common Name:	Not reported
Description:	REGULAR UNLEADED
Number of Compartments:	Not reported
Date of Closure:	08/15/2000
Mailing Address:	27127 TWENTY MULE TEAM RD
Mailing Address (care of):	JAMES SUMMERS
Mailing City/State/Zip:	BORON, CA 93516

E21 **JC FENNEL & SONS** **LUST** **S102431881**
North **27401 20 MULE TEAM** **SWEEPS UST** **N/A**
< 1/8 **BORON, CA 93516** **HIST CORTESE**
0.089 mi.
468 ft. **Site 1 of 4 in cluster E**

Actual:
2476 ft.

Focus Map:
13

LUST Region 6V:

Region:	6V
Case Number:	6B1500443T
Leak Record:	Not reported
Report Date:	11/4/1992
Reported By Address:	Not reported
Responsible Party:	JC FENNEL
Operator:	JC FENNEL
Cross Street:	KOSTOPOULIS
Local Agency:	15000L
Regional Board:	6V
Chemical:	Gasoline
Case Type:	Undefined
Funding:	Not reported
Enforce Type:	N
How Found:	Tank Closure
How Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Global ID:	T0602900888
Stop Date:	5/27/1989
Leak Confirm:	Not reported
Submit Workplan:	Not reported
Prelim Assess:	Not reported
Pollution Char:	Not reported
Remed Plan:	Not reported
Remed Action:	Not reported
Monitoring:	Not reported
Close Date:	Not reported
Discovered:	10/15/1992
Enforce Date:	1/1/1965
Review Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
MTBE class:	*
Max MTBE Grnd Wtr:	Not reported
Max MTBE Soil:	Not reported
MTBE Counts:	0
MTBE Fuel:	1
MTBE Tested:	NT
Organization Name:	Not reported
Status:	Not reported
Contact:	Not reported
Interim Action:	Not reported

JC FENNEL & SONS (Continued) **S102431881**

Pilot Program: LUST
Lat/Long: 35 / -117.640074
Staff Initials: GDC
Local Agency Staff: AEG
Lead Agency: Local Agency
Summary: Not reported
Basin Number: ANTELOPE VALLEY (6-4
Beneficial: Not reported
Priority: Not reported
UST Cleanup Fund ID: Not reported
Suspended: Not reported
Local Case Number: 560007
Amount: Not reported
Abate Method: Not reported
Water System: Not reported
Well Name: Not reported
Distance: 18378.60189
Wst Disch Reqrmnt Global ID: Not reported
Wst Disch Reqrmnt Name: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 9336
Number: Not reported
Board Of Equalization: 44-005766
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 15-000-009336-000001
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 3

Status: Not reported
Comp Number: 9336
Number: Not reported
Board Of Equalization: 44-005766
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 15-000-009336-000002
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 9336

JC FENNEL & SONS (Continued) **S102431881**

Number:	Not reported
Board Of Equalization:	44-005766
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-009336-000003
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	15
Reg By:	LTNKA
Reg Id:	6B1500443T

E22 **FENNELL & SON'S GARAGE & SERVICE** **UST** **U004113255**
North **27401 20 MULE TEAM RD** **N/A**
< 1/8 **BORON, CA**
0.089 mi.
468 ft. **Site 2 of 4 in cluster E**

Actual:
2476 ft.

Focus Map:
13

KERN CO. UST:

Region:	Kern
Facility ID:	Not reported
CERSID:	Not reported
Owner Id:	560007
Owner Name:	FENNELL, J C
Tank Num:	1
Tank Capacity:	0
Common Name:	Not reported
Description:	Not reported
Number of Compartments:	Not reported
Date of Closure:	Not reported
Mailing Address:	Not reported
Mailing Address (care of):	Not reported
Mailing City/State/Zip:	Not reported

E23 **J C FENNELL & SONS** **CA FID UST** **S101582282**
North **27401 20 MULE TEAM RD** **N/A**
< 1/8 **BORON, CA 93516**
0.089 mi.
468 ft. **Site 3 of 4 in cluster E**

Actual:
2476 ft.

Focus Map:
13

CA FID UST:

Facility ID:	15000491
Regulated By:	UTNKI
Regulated ID:	00009336
Cortese Code:	Not reported
SIC Code:	Not reported

J C FENNELL & SONS (Continued) **S101582282**

Facility Phone:	6197625319
Mail To:	Not reported
Mailing Address:	26800 JOHN ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BORON 93516
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

E24 **JC FENNELL & SONS GARAGE (FORMER)** **LUST** **S122356254**
North **27401 20 MULE TEAM RD** **N/A**
< 1/8 **BORON, CA 93516**
0.089 mi.
468 ft. **Site 4 of 4 in cluster E**

Actual:
2476 ft.

Focus Map:
13

LUST:

Lead Agency:	LAHONTAN RWQCB (REGION 6T)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0602900888
Global Id:	T0602900888
Latitude:	34.999386374472
Longitude:	-117.642455801605
Status:	Open - Site Assessment
Status Date:	10/18/2017
Case Worker:	EMC
RB Case Number:	6B1500443T
Local Agency:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Local Case Number:	Not reported
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	Gasoline
Site History:	The case was opened following an unauthorized release from an underground storage tank system at the subject site. Corrective action is underway as overseen by the Lahontan Regional Water Quality Control Board. Corrective action may consist of preliminary site investigation, planning and implementation of remedial action, verification monitoring, or a combination thereof. A summary of the site history is available by clicking on either the "Cleanup Status History", "Regulatory Activities" or the "Site Maps/Documents" tab. All Lahontan Regional Water Quality Control Board files are on GeoTracker.

LUST:

Global Id:	T0602900888
Contact Type:	Regional Board Caseworker
Contact Name:	EMILY CUSHMAN
Organization Name:	LAHONTAN RWQCB (REGION 6T)
Address:	2501 LAKE TAHOE BVLD.
City:	SOUTH LAKE TAHOE
Email:	emily.cushman@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0602900888

JC FENNELL & SONS GARAGE (FORMER) (Continued) **S122356254**

Action Type: ENFORCEMENT
Date: 01/22/2016
Action: Clean Up Fund - Letter to RP

Global Id: T0602900888
Action Type: Other
Date: 11/04/1992
Action: Leak Reported

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 09/05/2008
Action: Staff Letter

Global Id: T0602900888
Action Type: RESPONSE
Date: 03/14/2018
Action: Other Report / Document

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 11/04/1994
Action: Technical Correspondence / Assistance / Other

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 01/12/2006
Action: Referral to Regional Board

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 02/05/2018
Action: Staff Letter

Global Id: T0602900888
Action Type: RESPONSE
Date: 10/29/1992
Action: Correspondence

Global Id: T0602900888
Action Type: RESPONSE
Date: 07/27/2018
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0602900888
Action Type: RESPONSE
Date: 02/12/2002
Action: Correspondence

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 07/20/2009
Action: Letter - Notice

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 02/17/2010

JC FENNELL & SONS GARAGE (FORMER) (Continued) **S122356254**

Action: Staff Letter

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 02/27/2013
Action: Notice to Comply

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 04/08/2013
Action: File review

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 10/23/1992
Action: Notice to Comply

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 09/28/1995
Action: Notice to Comply

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 10/29/2002
Action: Notice to Comply

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 03/09/2018
Action: Email Correspondence

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 02/28/2018
Action: Email Correspondence

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 10/15/1992
Action: Unauthorized Release Form

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 03/19/2018
Action: Notice to Comply

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 05/09/2018
Action: Staff Letter

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 03/14/1993
Action: Notice to Comply

JC FENNELL & SONS GARAGE (FORMER) (Continued) **S122356254**

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 01/12/2004
Action: Notice to Comply

Global Id: T0602900888
Action Type: RESPONSE
Date: 04/19/2015
Action: Email Correspondence

Global Id: T0602900888
Action Type: RESPONSE
Date: 03/02/2018
Action: Correspondence

Global Id: T0602900888
Action Type: RESPONSE
Date: 04/16/2018
Action: Email Correspondence

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 09/05/2014
Action: Clean Up Fund - Letter to RP

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 11/14/2018
Action: Staff Letter

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 11/04/1992
Action: Unauthorized Release Form

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 03/05/2002
Action: Notice to Comply

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 09/11/1992
Action: Technical Correspondence / Assistance / Other

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 11/11/2003
Action: Notice to Comply

Global Id: T0602900888
Action Type: RESPONSE
Date: 03/09/2018
Action: Correspondence

Global Id: T0602900888
Action Type: Other

JC FENNELL & SONS GARAGE (FORMER) (Continued) **S122356254**

Date: 10/15/1992
Action: Leak Discovery

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 10/29/2002
Action: Staff Letter

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 01/12/2006
Action: Referral to Regional Board

Global Id: T0602900888
Action Type: RESPONSE
Date: 06/17/2016
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0602900888
Action Type: Other
Date: 05/27/1989
Action: Leak Stopped

Global Id: T0602900888
Action Type: ENFORCEMENT
Date: 04/03/2002
Action: Staff Letter

LUST:
Global Id: T0602900888
Status: Open
Status Date: 05/27/1989

Global Id: T0602900888
Status: Open - Case Begin Date
Status Date: 05/27/1989

Global Id: T0602900888
Status: Open - Inactive
Status Date: 05/27/1989

Global Id: T0602900888
Status: Open - Site Assessment
Status Date: 05/27/1989

Global Id: T0602900888
Status: Open - Site Assessment
Status Date: 10/18/2017

D25 **BORON SERVICE STATION** **UST** **U003981650**
North **27195 TWENTY MULE TEAM RD** **N/A**
< 1/8 **BORON, CA 93516**
0.091 mi.
478 ft. **Site 2 of 5 in cluster D**

Actual:
2469 ft.

Focus Map:
13

KERN CO. UST:

Region:	Kern
Facility ID:	FA0002920
CERSID:	10234093
Owner Id:	Not reported
Owner Name:	Not reported
Tank Num:	2
Tank Capacity:	3,500
Common Name:	Not reported
Description:	PREMIUM UNLEADED
Number of Compartments:	3
Date of Closure:	02/03/2017
Mailing Address:	27195 TWENTY MULE TEAM RD
Mailing Address (care of):	ROSENDO NAVARRETE
Mailing City/State/Zip:	BORON, CA 93516
Tank Num:	A
Tank Capacity:	5,000
Common Name:	Not reported
Description:	REGULAR UNLEADED
Number of Compartments:	Not reported
Date of Closure:	05/13/1999
Mailing Address:	27195 TWENTY MULE TEAM RD
Mailing Address (care of):	ROSENDO NAVARRETE
Mailing City/State/Zip:	BORON, CA 93516
Tank Num:	B
Tank Capacity:	5,000
Common Name:	Not reported
Description:	PREMIUM UNLEADED
Number of Compartments:	Not reported
Date of Closure:	05/13/1999
Mailing Address:	27195 TWENTY MULE TEAM RD
Mailing Address (care of):	ROSENDO NAVARRETE
Mailing City/State/Zip:	BORON, CA 93516
Tank Num:	C
Tank Capacity:	1,000
Common Name:	Not reported
Description:	MIDGRADE UNLEADED
Number of Compartments:	Not reported
Date of Closure:	05/13/1999
Mailing Address:	27195 TWENTY MULE TEAM RD
Mailing Address (care of):	ROSENDO NAVARRETE
Mailing City/State/Zip:	BORON, CA 93516
Tank Num:	C
Tank Capacity:	1,000

BORON SERVICE STATION (Continued) **U003981650**

Common Name: Not reported
Description: REGULAR UNLEADED
Number of Compartments: Not reported
Date of Closure: 05/13/1999
Mailing Address: 27195 TWENTY MULE TEAM RD
Mailing Address (care of): ROSENDO NAVARRETE
Mailing City/State/Zip: BORON, CA 93516

Tank Num: EAST 3
Tank Capacity: 3,500
Common Name: Not reported
Description: REGULAR UNLEADED
Number of Compartments: 3
Date of Closure: 02/03/2017
Mailing Address: 27195 TWENTY MULE TEAM RD
Mailing Address (care of): ROSENDO NAVARRETE
Mailing City/State/Zip: BORON, CA 93516

Tank Num: WEST 1
Tank Capacity: 8,000
Common Name: Not reported
Description: REGULAR UNLEADED
Number of Compartments: 3
Date of Closure: 02/03/2017
Mailing Address: 27195 TWENTY MULE TEAM RD
Mailing Address (care of): ROSENDO NAVARRETE
Mailing City/State/Zip: BORON, CA 93516

UST:
Facility ID: FA0002920
Permitting Agency: Kern County Environmental Health Services Department
Latitude: 34.99966
Longitude: -117.64622

D26 **DENNISS TEXACO** **EDR Hist Auto** **1020140481**
North **27195 20 MULE TEAM RD** **N/A**
< 1/8 **BORON, CA 93516**
0.091 mi.
478 ft. **Site 3 of 5 in cluster D**

Actual: EDR Hist Auto
2469 ft.

Focus Map: Year: Name: Type:
13
1983 KNOTTS TEXACO Gasoline Service Stations
1985 KNOTTS TEXACO Gasoline Service Stations
1986 KNOTTS TEXACO Gasoline Service Stations
1987 KNOTTS TEXACO Gasoline Service Stations
1988 KNOTTS TEXACO Gasoline Service Stations
1989 DENNISS TEXACO Gasoline Service Stations
1989 KNOTTS TEXACO Gasoline Service Stations
1990 KNOTTS TEXACO Gasoline Service Stations
1991 DENNISS TEXACO Gasoline Service Stations
1991 KNOTTS TEXACO Gasoline Service Stations
1992 KNOTTS TEXACO Gasoline Service Stations
1992 DENNISS TEXACO Gasoline Service Stations

DENNISS TEXACO (Continued) **1020140481**

1993	DENNISS TEXACO	Gasoline Service Stations
1993	KNOTTS TEXACO	Gasoline Service Stations
2001	BORON SERVICE STATIO	Gasoline Service Stations
2002	BORON SERVICE STATIO	Gasoline Service Stations
2003	BORON SERVICE STATION	Gasoline Service Stations
2004	BORON SERVICE STATION	Gasoline Service Stations
2005	BORON SERVICE STATION	Gasoline Service Stations
2006	BORON SERVICE STATION	Gasoline Service Stations
2007	BORON SERVICE STATION	Gasoline Service Stations
2008	BORON SERVICE STATION	Gasoline Service Stations
2009	BORON SERVICE STATION	Gasoline Service Stations
2010	BORON SERVICE STATION	Gasoline Service Stations
2011	BORON SERVICE STATION	Gasoline Service Stations
2012	BORON SERVICE STATION	Gasoline Service Stations
2013	BORON SERVICE STATION	Gasoline Service Stations
2014	BORON SERVICE STATION	Gasoline Service Stations

D27 **BORON TEXACO** **LUST** **S103880579**
North **27195 TWENTY MULE TEAM RD** **SWEEPS UST** **N/A**
< 1/8 **BORON, CA 93516** **ENF**
0.091 mi. **HIST CORTESE**
478 ft. **Site 4 of 5 in cluster D**

Actual:
2469 ft.

Focus Map:
13

LUST Region 6V:

Region:	6V
Case Number:	6B1500951T
Leak Record:	6/10/1999
Report Date:	6/2/1999
Reported By Address:	Not reported
Responsible Party:	FRANK MATLOCK
Operator:	MARK JENNINGS
Cross Street:	JAMES STREET
Local Agency:	15000L
Regional Board:	6V
Chemical:	Gasoline
Case Type:	Undefined
Funding:	Not reported
Enforce Type:	NONE
How Found:	OM
How Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Global ID:	T0602901008
Stop Date:	5/13/1999
Leak Confirm:	Not reported
Submit Workplan:	Not reported
Prelim Assess:	Not reported
Pollution Char:	5/13/1999
Remed Plan:	Not reported
Remed Action:	Not reported
Monitoring:	Not reported
Close Date:	Not reported
Discovered:	5/13/1999
Enforce Date:	Not reported
Review Date:	6/10/1999
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
MTBE class:	*

BORON TEXACO (Continued) **S103880579**

Max MTBE Grnd Wtr:	Not reported
Max MTBE Soil:	Not reported
MTBE Counts:	0
MTBE Fuel:	1
MTBE Tested:	NT
Organization Name:	Not reported
Status:	Pollution Characterization
Contact:	Not reported
Interim Action:	Not reported
Pilot Program:	LUST
Lat/Long:	34.9995918 / -117.6459732
Staff Initials:	GDC
Local Agency Staff:	SBC
Lead Agency:	Local Agency
Summary:	Not reported
Basin Number:	ANTELOPE VALLEY (6-4
Beneficial:	Not reported
Priority:	Not reported
UST Cleanup Fund ID:	Not reported
Suspended:	Not reported
Local Case Number:	560004
Amount:	Not reported
Abate Method:	Other
Water System:	Not reported
Well Name:	Not reported
Distance:	16573.6654
Wst Disch Reqrmnt Global ID:	Not reported
Wst Disch Reqrmnt Name:	Not reported

LUST:

Lead Agency:	LAHONTAN RWQCB (REGION 6T)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0602901008
Global Id:	T0602901008
Latitude:	34.9996462243008
Longitude:	-117.646236419678
Status:	Completed - Case Closed
Status Date:	01/26/2012
Case Worker:	TML
RB Case Number:	6B1500951T
Local Agency:	KERN COUNTY
File Location:	Not reported
Local Case Number:	560004
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0602901008
Contact Type:	Regional Board Caseworker
Contact Name:	TAMMY LUNDQUIST
Organization Name:	LAHONTAN RWQCB (REGION 6T)
Address:	2501 LAKE TAHOE BLVD.
City:	SOUTH LAKE TAHOE
Email:	tammy.lundquist@waterboards.ca.gov
Phone Number:	5305425400

BORON TEXACO (Continued) **S103880579**

Global Id: T0602901008
Contact Type: Local Agency Caseworker
Contact Name: VICKY Furnish
Organization Name: KERN COUNTY
Address: 2700 M ST STE 300
City: BAKERSFIELD
Email: furnishv@co.kern.ca.us
Phone Number: Not reported

LUST:
Global Id: T0602901008
Action Type: Other
Date: 06/02/1999
Action: Leak Reported

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 02/03/2009
Action: Staff Letter

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 10/15/2002
Action: Staff Letter

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 07/20/2009
Action: Letter - Notice

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 11/19/2009
Action: 13267 Requirement

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 06/01/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 05/24/2000
Action: Staff Letter

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 05/18/2000
Action: Clean Up Fund - Letter to RP

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 11/12/2000
Action: Staff Letter

Global Id: T0602901008
Action Type: ENFORCEMENT

BORON TEXACO (Continued) **S103880579**

Date: 08/09/2011
Action: Staff Letter

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 10/04/2011
Action: Staff Letter

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 07/20/2011
Action: Verbal Enforcement

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 04/19/2011
Action: Staff Letter

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 12/08/2011
Action: Staff Letter

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 11/30/2011
Action: Verbal Enforcement

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 01/26/2012
Action: Closure/No Further Action Letter

Global Id: T0602901008
Action Type: RESPONSE
Date: 03/21/2003
Action: Soil and Water Investigation Report

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 04/03/2002
Action: Staff Letter

Global Id: T0602901008
Action Type: RESPONSE
Date: 12/30/2009
Action: Request for Closure

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 10/15/2002
Action: Technical Correspondence / Assistance / Other

Global Id: T0602901008
Action Type: RESPONSE
Date: 03/24/2003
Action: Soil and Water Investigation Report

BORON TEXACO (Continued) **S103880579**

Global Id: T0602901008
Action Type: RESPONSE
Date: 10/03/2000
Action: Preliminary Site Assessment Workplan

Global Id: T0602901008
Action Type: RESPONSE
Date: 07/29/1999
Action: Tank Removal Report / UST Sampling Report

Global Id: T0602901008
Action Type: RESPONSE
Date: 12/10/2001
Action: Preliminary Site Assessment Report

Global Id: T0602901008
Action Type: ENFORCEMENT
Date: 04/15/2003
Action: * No Action

Global Id: T0602901008
Action Type: Other
Date: 05/13/1999
Action: Leak Discovery

Global Id: T0602901008
Action Type: RESPONSE
Date: 03/04/2011
Action: Correspondence

Global Id: T0602901008
Action Type: RESPONSE
Date: 10/13/2011
Action: Verbal Communication

Global Id: T0602901008
Action Type: RESPONSE
Date: 05/27/2011
Action: Other Workplan

Global Id: T0602901008
Action Type: Other
Date: 05/13/1999
Action: Leak Stopped

Global Id: T0602901008
Action Type: RESPONSE
Date: 11/05/2011
Action: Risk Assessment Report

Global Id: T0602901008
Action Type: RESPONSE
Date: 09/07/2011
Action: Correspondence

Global Id: T0602901008
Action Type: RESPONSE

BORON TEXACO (Continued) **S103880579**

Date: 12/31/2011
Action: Other Report / Document

Global Id: T0602901008
Action Type: RESPONSE
Date: 03/05/2012
Action: Well Destruction Report

LUST:
Global Id: T0602901008
Status: Completed - Case Closed
Status Date: 01/26/2012

Global Id: T0602901008
Status: Open - Case Begin Date
Status Date: 05/13/1999

Global Id: T0602901008
Status: Open - Site Assessment
Status Date: 05/13/1999

SWEEPS UST:
Status: Active
Comp Number: 24209
Number: 2
Board Of Equalization: 44-006052
Referral Date: 09-29-93
Action Date: 04-11-94
Created Date: 09-30-89
Owner Tank Id: 1
SWRCB Tank Id: 15-000-024209-000001
Tank Status: A
Capacity: 5000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 4

Status: Active
Comp Number: 24209
Number: 2
Board Of Equalization: 44-006052
Referral Date: 09-29-93
Action Date: 04-11-94
Created Date: 09-30-89
Owner Tank Id: 2
SWRCB Tank Id: 15-000-024209-000002
Tank Status: A
Capacity: 1000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

BORON TEXACO (Continued) **S103880579**

Status: Active
Comp Number: 24209
Number: 2
Board Of Equalization: 44-006052
Referral Date: 09-29-93
Action Date: 04-11-94
Created Date: 09-30-89
Owner Tank Id: 3
SWRCB Tank Id: 15-000-024209-000003
Tank Status: A
Capacity: 1000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 24209
Number: 2
Board Of Equalization: 44-006052
Referral Date: 09-29-93
Action Date: 04-11-94
Created Date: 09-30-89
Owner Tank Id: 4
SWRCB Tank Id: 15-000-024209-000004
Tank Status: A
Capacity: 5000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

ENF:
Region: 6B
Facility Id: 750952
Agency Name: Not reported
Place Type: Facility
Place Subtype: Groundwater Cleanup Site
Facility Type: Not reported
Agency Type: Not reported
Of Agencies: Not reported
Place Latitude: Not reported
Place Longitude: Not reported
SIC Code 1: Not reported
SIC Desc 1: Not reported
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported

BORON TEXACO (Continued) **S103880579**

# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	TANKS
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	373532
Region:	6B
Order / Resolution Number:	R6V-2009-0053
Enforcement Action Type:	13267 Letter
Effective Date:	11/19/2009
Adoption/Issuance Date:	11/19/2009
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	13267 Order Former Jimmy's Lube- 11/19/2009
Description:	High concentrations of gasoline constituents in soils beneath the site.
Program:	UST
Latest Milestone Completion Date:	Not reported

BORON TEXACO (Continued) **S103880579**

# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	15
Reg By:	LTNKA
Reg Id:	6B1500951T

D28 **ELIZABETH DYSON PROPERTY** **UST** **U004150044**
North **27201 TWENTY MULE TEAM RD** **N/A**
< 1/8 **BORON, CA 93516**
0.091 mi.
479 ft. **Site 5 of 5 in cluster D**

Actual:
2469 ft.

Focus Map:
13

KERN CO. UST:

Region:	Kern
Facility ID:	FA0032205
CERSID:	Not reported
Owner Id:	Not reported
Owner Name:	Not reported
Tank Num:	Not reported
Tank Capacity:	750
Common Name:	Not reported
Description:	REGULAR UNLEADED
Number of Compartments:	Not reported
Date of Closure:	11/17/2008
Mailing Address:	PO BOX 181
Mailing Address (care of):	Not reported
Mailing City/State/Zip:	TEHACHAPI, CA 93516
Tank Num:	Not reported
Tank Capacity:	500
Common Name:	Not reported
Description:	REGULAR UNLEADED
Number of Compartments:	Not reported
Date of Closure:	11/17/2008
Mailing Address:	PO BOX 181
Mailing Address (care of):	Not reported
Mailing City/State/Zip:	TEHACHAPI, CA 93516

F29 **U S BORAX INC** **SSTS** **1012197025**
NNE **US MINES** **N/A**
< 1/8 **INYO (County), CA**
0.100 mi.
529 ft. **Site 1 of 8 in cluster F**

Actual: **2397 ft.**

Focus Map: **11**

SSTS:

Product:	BORAX 5 MOL PENTAHYDRATE (MFG GRADE)
Contact:	CRAIG E BERNARD CRISTINA GRIFFIN/US AGENT P: 301-680-7971
Status:	Not reported
Registration Number:	001624-CA-002
Report Year:	2008
Permit:	Not reported
Product Number:	1624-1
Product Type:	Technical material or active ingredient
Product Class:	Not reported
Product Use:	Not reported
UOM:	Not reported
Market:	Marketed in the United States and exported out of the United States
Region:	9
Zero product:	No
Pesticide RUP report:	2

Product:	BORAX DECAHYDRATE MANUFACTURING GRADE
Contact:	CRAIG E BERNARD CRISTINA GRIFFIN/US AGENT P: 301-680-7971
Status:	Not reported
Registration Number:	001624-CA-002
Report Year:	2008
Permit:	Not reported
Product Number:	1624-124
Product Type:	Technical material or active ingredient
Product Class:	Not reported
Product Use:	Not reported
UOM:	Not reported
Market:	Marketed in the United States and exported out of the United States
Region:	9
Zero product:	No
Pesticide RUP report:	2

Product:	BORIC ACID MG AND ALT BR NAMES (MUP)
Contact:	CRAIG E BERNARD CRISTINA GRIFFIN/US AGENT P: 301-680-7971
Status:	Not reported
Registration Number:	001624-CA-002
Report Year:	2008
Permit:	Not reported
Product Number:	1624-117
Product Type:	Technical material or active ingredient
Product Class:	Not reported
Product Use:	Not reported
UOM:	Not reported
Market:	Marketed in the United States and exported out of the United States
Region:	9
Zero product:	No
Pesticide RUP report:	2

Product:	BORAX 5 MOL PENTAHYDRATE (MFG GRADE, 100%)
Contact:	DONNA LEVENTHAL AGENT P: 310-522-5300
Status:	Not reported
Registration Number:	001624-CA-002

U S BORAX INC (Continued) **1012197025**

Report Year: 2009
Permit: Not reported
Product Number: 1624-1
Product Type: Technical material or active ingredient
Product Class: Not reported
Product Use: Not reported
UOM: Not reported
Market: Marketed in the United States and exported out of the United States
Region: Not reported
Zero product: No
Pesticide RUP report: 2

Product: BORAX DECAHYDRATE MANUFACTURING GRADE (100%)
Contact: DONNA LEVENTHAL AGENT P: 310-522-5300
Status: Not reported
Registration Number: 001624-CA-002
Report Year: 2009
Permit: Not reported
Product Number: 1624-124
Product Type: Technical material or active ingredient
Product Class: Not reported
Product Use: Not reported
UOM: Not reported
Market: Marketed in the United States and exported out of the United States
Region: Not reported
Zero product: No
Pesticide RUP report: 2

Product: BORIC ACID MG AND ALT BR NAMES (MUP, 100%)
Contact: DONNA LEVENTHAL AGENT P: 310-522-5300
Status: Not reported
Registration Number: 001624-CA-002
Report Year: 2009
Permit: Not reported
Product Number: 1624-117
Product Type: Technical material or active ingredient
Product Class: Not reported
Product Use: Not reported
UOM: Not reported
Market: Marketed in the United States and exported out of the United States
Region: Not reported
Zero product: No
Pesticide RUP report: 2

US MINES:
Mine ID: 0402834
SIC code(s): 147404 000000 000000 000000 000000 000000
Entity name: OWENS LAKE MINE
Company: U S BORAX INC
Status: 1
Status date: 20020101
Operation Class: non-Coal Mining
Number of shops: 0
Number of plants: 0
Latitude: 36 36 38
Longitude: 118 03 56

U S BORAX INC (Continued) **1012197025**

Violations Details:

Violation Number:	9374682
Date Issued:	5/1/2018
Mine Status:	Active
Status Date:	1/1/2002
Action Type:	104(a)
Date Abated:	5/1/2018
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	118.00
Paid Penalty:	118.00
Assessment Status code:	Proposed
Assess. Case Status code:	Closed
Assessment Amount:	118.00
Year:	2018

Violation Number:	8996165
Date Issued:	12/12/2017
Mine Status:	Active
Status Date:	1/1/2002
Action Type:	104(a)
Date Abated:	12/12/2017
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	118.00
Paid Penalty:	118.00
Assessment Status code:	Proposed
Assess. Case Status code:	Closed
Assessment Amount:	118.00
Year:	2017

Violation Number:	8996166
Date Issued:	12/12/2017
Mine Status:	Active
Status Date:	1/1/2002
Action Type:	104(a)
Date Abated:	12/12/2017
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	118.00
Paid Penalty:	118.00
Assessment Status code:	Proposed
Assess. Case Status code:	Closed
Assessment Amount:	118.00
Year:	2017

Violation Number:	7985842
Date Issued:	12/11/2007
Mine Status:	Active
Status Date:	01/01/2002
Action Type:	104(a)
Date Abated:	01/07/2008
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100.00
Paid Penalty:	100.00
Assessment Status code:	Closed

U S BORAX INC (Continued) **1012197025**

Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2007

Violation Number: 6382096
Date Issued: 12/06/2005
Mine Status: Active
Status Date: 01/01/2002
Action Type: 104(a)
Date Abated: 12/06/2005
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2005

Violation Number: 6382095
Date Issued: 12/06/2005
Mine Status: Active
Status Date: 01/01/2002
Action Type: 104(a)
Date Abated: 12/06/2005
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2005

Violation Number: 8566178
Date Issued: 10/14/2010
Mine Status: Active
Status Date: 01/01/2002
Action Type: 104(a)
Date Abated: 10/22/2010
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 100.00
Paid Penalty: 100.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 100.00
Year: 2010

Violation Number: 6339890
Date Issued: 05/30/2002
Mine Status: Active
Status Date: 01/01/2002
Action Type: 104(a)
Date Abated: 08/12/2002
Citation/Order: Citation
Sig and Sub Designation: N

U S BORAX INC (Continued) **1012197025**

Proposed Penalty: 55.00
Paid Penalty: 55.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 55.00
Year: 2002

Violation Number: 6339889
Date Issued: 05/30/2002
Mine Status: Active
Status Date: 01/01/2002
Action Type: 104(a)
Date Abated: 08/12/2002
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 55.00
Paid Penalty: 55.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 55.00
Year: 2002

Violation Number: 6339888
Date Issued: 05/30/2002
Mine Status: Active
Status Date: 01/01/2002
Action Type: 104(a)
Date Abated: 08/12/2002
Citation/Order: Citation
Sig and Sub Designation: Y
Proposed Penalty: 90.00
Paid Penalty: 90.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 90.00
Year: 2002

Violation Number: 6382813
Date Issued: 05/04/2006
Mine Status: Active
Status Date: 01/01/2002
Action Type: 104(a)
Date Abated: 05/04/2006
Citation/Order: Citation
Sig and Sub Designation: N
Proposed Penalty: 60.00
Paid Penalty: 60.00
Assessment Status code: Closed
Assess. Case Status code: Proposed
Assessment Amount: 60.00
Year: 2006

Violation Number: 6476996
Date Issued: 04/07/2009
Mine Status: Active
Status Date: 01/01/2002
Action Type: 104(a)

U S BORAX INC (Continued) **1012197025**

Date Abated:	04/07/2009
Citation/Order:	Citation
Sig and Sub Designation:	Y
Proposed Penalty:	224.00
Paid Penalty:	224.00
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	224.00
Year:	2009

Violation Number:	8695211
Date Issued:	02/26/2013
Mine Status:	Active
Status Date:	01/01/2002
Action Type:	104(a)
Date Abated:	02/26/2013
Citation/Order:	Citation
Sig and Sub Designation:	N
Proposed Penalty:	100
Paid Penalty:	100
Assessment Status code:	Closed
Assess. Case Status code:	Proposed
Assessment Amount:	100
Year:	2013

F30 **U.S. BORAX** **LUST** **S105193265**
NNE **14486 BORAX ROAD** **CHMIRS** **N/A**
< 1/8 **BORON, CA 95691** **EMI**
0.100 mi.
529 ft. **Site 2 of 8 in cluster F**

Actual:
2397 ft.

Focus Map:
11

LUST Region 6V:

Region:	6V
Case Number:	6B1501003T
Leak Record:	Not reported
Report Date:	5/12/1992
Reported By Address:	14486 BORAX ROAD
Responsible Party:	ANTHONY TESKE
Operator:	ANTHONY TESKE
Cross Street:	HWY 58
Local Agency:	15000L
Regional Board:	6V
Chemical:	Gasoline
Case Type:	Soil only
Funding:	Not reported
Enforce Type:	SEL
How Found:	OM
How Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Global ID:	T060292419
Stop Date:	4/1/1992
Leak Confirm:	Not reported
Submit Workplan:	Not reported
Prelim Assess:	Not reported
Pollution Char:	Not reported
Remed Plan:	Not reported
Remed Action:	Not reported

U.S. BORAX (Continued) **S105193265**

Monitoring:	Not reported
Close Date:	8/31/1992
Discovered:	5/11/1992
Enforce Date:	Not reported
Review Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
MTBE class:	*
Max MTBE Grnd Wtr:	Not reported
Max MTBE Soil:	Not reported
MTBE Counts:	0
MTBE Fuel:	1
MTBE Tested:	NT
Organization Name:	Not reported
Status:	Case Closed
Contact:	Not reported
Interim Action:	Not reported
Pilot Program:	LUST
Lat/Long:	35 / -117.702974
Staff Initials:	ETL
Local Agency Staff:	DAN
Lead Agency:	Local Agency
Summary:	Haz Mat incident report filed : TANK REMOVAL : TANK REMOVED
Basin Number:	ANTELOPE VALLEY (6-4
Beneficial:	Not reported
Priority:	Not reported
UST Cleanup Fund ID:	Not reported
Suspended:	Not reported
Local Case Number:	550010
Amount:	Not reported
Abate Method:	Not reported
Water System:	Not reported
Well Name:	Not reported
Distance:	471.9413345
Wst Disch Reqrmnt Global ID:	Not reported
Wst Disch Reqrmnt Name:	Not reported

CHMIRS:

OES Incident Number:	7-7304
OES notification:	11/26/2007
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported

U.S. BORAX (Continued) **S105193265**

Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2007
Agency:	US Borax
Incident Date:	11/26/2007 12:00:00 AM
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	Boric Acid effluent
Gallons:	351,000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Release occurred due to breakage in the pipeline that transfers the boric acid effluent. Pipeline has been shut-down and excavation will be done tomorrow.
OES Incident Number:	3-0138
OES notification:	01/08/2003
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported

U.S. BORAX (Continued) **S105193265**

Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2003
Agency:	US Borax
Incident Date:	1/8/200312:00:00 AM
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	dilute tailings waste water
Gallons:	15,000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported

U.S. BORAX (Continued) **S105193265**

Fatals:	Not reported
Comments:	Not reported
Description:	has very small amount of arsenic, 90 parts per million. Flange failed causing the spill.
OES Incident Number:	13-2561
OES notification:	04/29/2013
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	800
Year:	2013
Agency:	US Borax
Incident Date:	4/29/2013
Admin Agency:	Kern Co. Environmental Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Hydraulic Oil
Quantity Released:	40-60
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported

U.S. BORAX (Continued) **S105193265**

Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Per RP, release occurred due to broken hydraulic line on a loader. Release occurred to concrete slab. Vehicle has been repaired and moved; impacted soil removed. Per RP, no environmental impact as a result of the release.
OES Incident Number:	6-6397
OES notification:	10/27/2006
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported

U.S. BORAX (Continued) **S105193265**

Date/Time:	Not reported
Year:	2006
Agency:	Rio Tinto Minerals, Borate Refinery
Incident Date:	10/26/2006 12:00:00 AM
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Processed Liquors mixed with cooling tower water
Gallons:	0.000000
Pounds:	1
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Per caller this pilled onto land and concrete. Taking up the affected soils and vactoring the liquids.

EMI:

Year:	2000
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	31
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	18
Part. Matter 10 Micrometers and Smllr Tons/Yr:	18

Year:	2001
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD

U.S. BORAX (Continued) **S105193265**

Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	31
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	18
Part. Matter 10 Micrometers and Smllr Tons/Yr:	18

Year:	2002
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	1791
NOX - Oxides of Nitrogen Tons/Yr:	264
SOX - Oxides of Sulphur Tons/Yr:	52
Particulate Matter Tons/Yr:	260
Part. Matter 10 Micrometers and Smllr Tons/Yr:	246

Year:	2002
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	41
SOX - Oxides of Sulphur Tons/Yr:	3
Particulate Matter Tons/Yr:	18
Part. Matter 10 Micrometers and Smllr Tons/Yr:	18

Year:	2003
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	41

U.S. BORAX (Continued) **S105193265**

SOX - Oxides of Sulphur Tons/Yr:	3
Particulate Matter Tons/Yr:	18
Part. Matter 10 Micrometers and Smllr Tons/Yr:	18

Year:	2003
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	22
Reactive Organic Gases Tons/Yr:	11
Carbon Monoxide Emissions Tons/Yr:	101
NOX - Oxides of Nitrogen Tons/Yr:	284
SOX - Oxides of Sulphur Tons/Yr:	53
Particulate Matter Tons/Yr:	468
Part. Matter 10 Micrometers and Smllr Tons/Yr:	248

Year:	2004
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.58
Reactive Organic Gases Tons/Yr:	0.601412
Carbon Monoxide Emissions Tons/Yr:	2.53
NOX - Oxides of Nitrogen Tons/Yr:	38.4
SOX - Oxides of Sulphur Tons/Yr:	3.13
Particulate Matter Tons/Yr:	17.4
Part. Matter 10 Micrometers and Smllr Tons/Yr:	17.33

Year:	2004
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	71.932
Reactive Organic Gases Tons/Yr:	12.2861683
Carbon Monoxide Emissions Tons/Yr:	106.173
NOX - Oxides of Nitrogen Tons/Yr:	294.88
SOX - Oxides of Sulphur Tons/Yr:	3.495
Particulate Matter Tons/Yr:	568.916
Part. Matter 10 Micrometers and Smllr Tons/Yr:	291.972

Year:	2005
County Code:	15

U.S. BORAX (Continued) **S105193265**

Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.58
Reactive Organic Gases Tons/Yr:	.601412
Carbon Monoxide Emissions Tons/Yr:	2.53
NOX - Oxides of Nitrogen Tons/Yr:	38.4
SOX - Oxides of Sulphur Tons/Yr:	3.13
Particulate Matter Tons/Yr:	17.4
Part. Matter 10 Micrometers and Smllr Tons/Yr:	17.33

Year:	2005
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	113.5794867224315609
Reactive Organic Gases Tons/Yr:	16.2036694
Carbon Monoxide Emissions Tons/Yr:	505.074
NOX - Oxides of Nitrogen Tons/Yr:	308.63
SOX - Oxides of Sulphur Tons/Yr:	12.95
Particulate Matter Tons/Yr:	2298.270900012790859
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1156.15876

Year:	2006
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.58
Reactive Organic Gases Tons/Yr:	.601412
Carbon Monoxide Emissions Tons/Yr:	2.53
NOX - Oxides of Nitrogen Tons/Yr:	38.4
SOX - Oxides of Sulphur Tons/Yr:	3.13
Particulate Matter Tons/Yr:	17.4
Part. Matter 10 Micrometers and Smllr Tons/Yr:	17.33

Year:	2006
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y

U.S. BORAX (Continued) **S105193265**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	113.5794867224315609
Reactive Organic Gases Tons/Yr:	16.2036694
Carbon Monoxide Emissions Tons/Yr:	505.074
NOX - Oxides of Nitrogen Tons/Yr:	308.63
SOX - Oxides of Sulphur Tons/Yr:	12.95
Particulate Matter Tons/Yr:	2298.270900012790859
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1156.15876

Year:	2007
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.58
Reactive Organic Gases Tons/Yr:	.601412
Carbon Monoxide Emissions Tons/Yr:	2.53
NOX - Oxides of Nitrogen Tons/Yr:	38.4
SOX - Oxides of Sulphur Tons/Yr:	3.13
Particulate Matter Tons/Yr:	17.4
Part. Matter 10 Micrometers and Smllr Tons/Yr:	17.33

Year:	2007
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	113.5794867224315609
Reactive Organic Gases Tons/Yr:	16.2036694
Carbon Monoxide Emissions Tons/Yr:	505.074
NOX - Oxides of Nitrogen Tons/Yr:	308.63
SOX - Oxides of Sulphur Tons/Yr:	12.95
Particulate Matter Tons/Yr:	2298.270900012790859
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1156.15876

Year:	2008
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	138.3890688421242466
Reactive Organic Gases Tons/Yr:	14.366
Carbon Monoxide Emissions Tons/Yr:	104.869
NOX - Oxides of Nitrogen Tons/Yr:	151.7
SOX - Oxides of Sulphur Tons/Yr:	1.8433

U.S. BORAX (Continued) **S105193265**

Particulate Matter Tons/Yr:	1472.631837007472888
Part. Matter 10 Micrometers and Smllr Tons/Yr:	789.77
Year:	2008
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.095
Reactive Organic Gases Tons/Yr:	.557083
Carbon Monoxide Emissions Tons/Yr:	2.275
NOX - Oxides of Nitrogen Tons/Yr:	43.56
SOX - Oxides of Sulphur Tons/Yr:	.406
Particulate Matter Tons/Yr:	16.74
Part. Matter 10 Micrometers and Smllr Tons/Yr:	16.64
Year:	2009
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.0949999999999998
Reactive Organic Gases Tons/Yr:	0.55708299999999999
Carbon Monoxide Emissions Tons/Yr:	2.2749999999999999
NOX - Oxides of Nitrogen Tons/Yr:	43.560000000000002
SOX - Oxides of Sulphur Tons/Yr:	0.40600000000000003
Particulate Matter Tons/Yr:	16.739999999999998
Part. Matter 10 Micrometers and Smllr Tons/Yr:	16.640000000000001
Year:	2010
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.0949999999999998
Reactive Organic Gases Tons/Yr:	0.55708299999999999
Carbon Monoxide Emissions Tons/Yr:	2.2749999999999999
NOX - Oxides of Nitrogen Tons/Yr:	43.560000000000002
SOX - Oxides of Sulphur Tons/Yr:	0.40600000000000003
Particulate Matter Tons/Yr:	16.739999999999998
Part. Matter 10 Micrometers and Smllr Tons/Yr:	16.639559999999999
Year:	2011
County Code:	15
Air Basin:	MD

U.S. BORAX (Continued) **S105193265**

Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	135.75311506
Reactive Organic Gases Tons/Yr:	13.73
Carbon Monoxide Emissions Tons/Yr:	98.27
NOX - Oxides of Nitrogen Tons/Yr:	141.33
SOX - Oxides of Sulphur Tons/Yr:	1.69
Particulate Matter Tons/Yr:	95.906395898
Part. Matter 10 Micrometers and Smllr Tons/Yr:	86.41

Year:	2011
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.095
Reactive Organic Gases Tons/Yr:	0.557083
Carbon Monoxide Emissions Tons/Yr:	2.275
NOX - Oxides of Nitrogen Tons/Yr:	43.56
SOX - Oxides of Sulphur Tons/Yr:	0.406
Particulate Matter Tons/Yr:	16.74
Part. Matter 10 Micrometers and Smllr Tons/Yr:	16.63956

Year:	2012
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	122.38291619
Reactive Organic Gases Tons/Yr:	12.4
Carbon Monoxide Emissions Tons/Yr:	92.62
NOX - Oxides of Nitrogen Tons/Yr:	128.253
SOX - Oxides of Sulphur Tons/Yr:	1.589
Particulate Matter Tons/Yr:	92.002135032
Part. Matter 10 Micrometers and Smllr Tons/Yr:	82.77

Year:	2012
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

U.S. BORAX (Continued) **S105193265**

Total Organic Hydrocarbon Gases Tons/Yr:	6.095
Reactive Organic Gases Tons/Yr:	0.557083
Carbon Monoxide Emissions Tons/Yr:	2.275
NOX - Oxides of Nitrogen Tons/Yr:	43.56
SOX - Oxides of Sulphur Tons/Yr:	0.406
Particulate Matter Tons/Yr:	16.74
Part. Matter 10 Micrometers and Smllr Tons/Yr:	16.63956

Year:	2013
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	151.19418897
Reactive Organic Gases Tons/Yr:	15.33
Carbon Monoxide Emissions Tons/Yr:	103.26
NOX - Oxides of Nitrogen Tons/Yr:	174.57
SOX - Oxides of Sulphur Tons/Yr:	1.77
Particulate Matter Tons/Yr:	105.23035547
Part. Matter 10 Micrometers and Smllr Tons/Yr:	95.29

Year:	2013
County Code:	15
Air Basin:	MD
Facility ID:	593
Air District Name:	KER
SIC Code:	4961
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.095
Reactive Organic Gases Tons/Yr:	0.557083
Carbon Monoxide Emissions Tons/Yr:	2.275
NOX - Oxides of Nitrogen Tons/Yr:	43.56
SOX - Oxides of Sulphur Tons/Yr:	0.406
Particulate Matter Tons/Yr:	16.74
Part. Matter 10 Micrometers and Smllr Tons/Yr:	16.63956

Year:	2014
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	151.6058706
Reactive Organic Gases Tons/Yr:	15.7144
Carbon Monoxide Emissions Tons/Yr:	101.59
NOX - Oxides of Nitrogen Tons/Yr:	182.4545
SOX - Oxides of Sulphur Tons/Yr:	1.7454
Particulate Matter Tons/Yr:	103.37109722

U.S. BORAX (Continued) **S105193265**

Part. Matter 10 Micrometers and Smllr Tons/Yr:93.1316

Year:	2015
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	KERN COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	151.6058706
Reactive Organic Gases Tons/Yr:	15.7144
Carbon Monoxide Emissions Tons/Yr:	101.59
NOX - Oxides of Nitrogen Tons/Yr:	182.4545
SOX - Oxides of Sulphur Tons/Yr:	1.7454
Particulate Matter Tons/Yr:	103.37109722
Part. Matter 10 Micrometers and Smllr Tons/Yr:	93.1316

Year:	2016
County Code:	15
Air Basin:	MD
Facility ID:	28
Air District Name:	KER
SIC Code:	1474
Air District Name:	EASTERN KERN APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	179.341626
Reactive Organic Gases Tons/Yr:	17.8764
Carbon Monoxide Emissions Tons/Yr:	102.7127
NOX - Oxides of Nitrogen Tons/Yr:	183.6454
SOX - Oxides of Sulphur Tons/Yr:	1.87
Particulate Matter Tons/Yr:	109.29311538
Part. Matter 10 Micrometers and Smllr Tons/Yr:	97.9292

F31 **U S BORAX INC** **UST** **U004118148**
NNE **14486 BORAX RD** **N/A**
< 1/8 **BORON, CA 93516**
0.100 mi.
529 ft. **Site 3 of 8 in cluster F**

Actual:
2397 ft.

Focus Map:
11

KERN CO. UST:

Region:	Kern
Facility ID:	FA0000958
CERSID:	10231831
Owner Id:	Not reported
Owner Name:	Not reported
Tank Num:	1
Tank Capacity:	15,000
Common Name:	Not reported
Description:	REGULAR UNLEADED
Number of Compartments:	1
Date of Closure:	Not reported
Mailing Address:	14486 BORAX RD
Mailing Address (care of):	Rio Tinto Borates, Boron Operations (U.S. Borax Inc.)
Mailing City/State/Zip:	BORON, CA 93516

U S BORAX INC (Continued) **U004118148**

Tank Num:	1
Tank Capacity:	15000
Common Name:	UNLEADED
Description:	Not reported
Number of Compartments:	Not reported
Date of Closure:	Not reported
Mailing Address:	Not reported
Mailing Address (care of):	Not reported
Mailing City/State/Zip:	Not reported

Tank Num:	550010
Tank Capacity:	3,000
Common Name:	Not reported
Description:	DIESEL
Number of Compartments:	Not reported
Date of Closure:	06/13/2001
Mailing Address:	14486 BORAX RD
Mailing Address (care of):	Rio Tinto Borates, Boron Operations (U.S. Borax Inc.)
Mailing City/State/Zip:	BORON, CA 93516

Tank Num:	550010
Tank Capacity:	3,000
Common Name:	Not reported
Description:	DIESEL
Number of Compartments:	Not reported
Date of Closure:	04/10/2001
Mailing Address:	14486 BORAX RD
Mailing Address (care of):	Rio Tinto Borates, Boron Operations (U.S. Borax Inc.)
Mailing City/State/Zip:	BORON, CA 93516

UST:

Facility ID:	Not reported
Permitting Agency:	Kern County Environmental Health Services Department
Latitude:	35.035669
Longitude:	-117.703194

F32 **U S BORAX INC** **CPS-SLIC** **1000164326**
NNE **14486 BORAX ROAD** **AST** **N/A**
< 1/8 **BORON, CA** **CHMIRS**
0.100 mi.
529 ft. **Site 4 of 8 in cluster F**

Actual:
2397 ft.

Focus Map:
11

SLIC REG 6V:

Facility ID:	SL206073825
Region:	6V
Personal Charge Account:	2060700
Facility Addr2:	Not reported
Case Number:	SL206073825
Initials:	ETL
Enter Date:	06/30/95
Discovered By:	RPR
RP Name:	US BORAX &1900
RP Contact Name:	US BORAX & CHEMICAL CORP.
RP Address:	BORAX RD.
RP City,St,Zip:	BCP UNKNOWN

U S BORAX INC (Continued) **1000164326**

RP Billing Addr:	Not reported
RB Billing Addr2:	Not reported
RP Billing Addr3:	Not reported
RP Billing Addr4:	Not reported
Comments:	Estimated hours for next 5 yrs = 650 hrs.
Brownfield:	Not reported
Report Date:	Not reported
Lead Agency:	Not reported
Program Type:	SLIC
Funding:	COSTRE
Abatement Method:	Not reported
Case Status:	7
Case Type:	Not reported
Case Type Undetermined:	No
Case Type Soil Impacted:	No
Case Type Surface Water:	No
Case Type Drinkin Water Well:	No
Case Type Drinking Water Aqfr:	No
Case Type Other Grnd Wtr:	No
Beneficial Use:	AS_T,IS_I
VOC:	No
SVO:	No
MET:	No
CR:	Yes
PET:	No
PCB:	No
ACD:	No
PER:	No
DIO:	No
PAH:	No
PHC:	No
FER:	No
Arsenic:	No
PCE:	No
TCE:	No
TDS:	No
Nitrates:	No
OCP:	No
Lat/Long:	35.0048188745519 / -117.652511182795

AST:

Certified Unified Program Agencies:	Kern
Owner:	U S BORAX INC
Total Gallons:	12,211,985
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported

U S BORAX INC (Continued) **1000164326**

Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

CHMIRS:

OES Incident Number:	12-5233
OES notification:	08/31/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Industrial Plant
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1900
Year:	2012
Agency:	US Borax
Incident Date:	8/30/2012
Admin Agency:	Kern Co. Environmental Health Services Department
Amount:	Not reported

U S BORAX INC (Continued) **1000164326**

Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Storm Water with "Tailings" including Arsenic
Quantity Released:	16,000
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states: A major thunderstorm led to excess storm water onsite and took out the electricity of the area; all of the storm water went into sump. They were unable to pump due to lack of power and the sump overflowed causing the release to a catchment. The release was contained within the system. The catchment is on-line.
OES Incident Number:	08-2318
OES notification:	03/25/2008
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported

U S BORAX INC (Continued) **1000164326**

Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	0900
Year:	2008
Agency:	Borax
Incident Date:	3/25/2008
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Boric Acid Tailings
Quantity Released:	84000
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The substance spilled from a broken line.
OES Incident Number:	2-3657
OES notification:	07/05/2002
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported

U S BORAX INC (Continued) **1000164326**

Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Responsible Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	US Borax
Incident Date:	7/1/200212:00:00 AM
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Borax Tailings Material
Gallons:	2,500
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The substance is a Bevill exempt material While pumping material through a pipeline and the 90 degree elbow on the pipeline separated. This amount includes 6.6 pounds of arsenic.
OES Incident Number:	5-4302
OES notification:	07/20/2005
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**

U S BORAX INC (Continued) **1000164326**

Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2005
Agency:	NRC
Incident Date:	7/17/200512:00:00 AM
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Arsenic
Gallons:	0.000000
Pounds:	25
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported

U S BORAX INC (Continued) **1000164326**

Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Via NRC report, wastewater containing arsenic spilled onto the soil from a break in a wastewater process line.
OES Incident Number:	5-0913
OES notification:	02/10/2005
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2005
Agency:	US Borax
Incident Date:	2/10/200512:00:00 AM
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	Boric Acid Pond Waste Water
Gallons:	10,000

U S BORAX INC (Continued) **1000164326**

Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The inflows became greater than the out flows and they spilled through the spillway pipe.

F33 **BORON MINE FACILITY** **SWF/LF** **S101612518**
NNE **14486 BORAX RD** **LUST** **N/A**
< 1/8 **BORON CA, CA 93516** **WMUDS/SWAT**
0.100 mi. **CHMIRS**
529 ft. **Site 5 of 8 in cluster F** **LDS**
ENF
Actual: **Financial Assurance**
2397 ft. **NPDES**
WDS
Focus Map: **CIWQS**
11

SWF/LF (SWIS):

Facility ID:	15-AA-0278
Lat/Long:	35.04585 / -117.70987
Owner Name:	US Borax Inc-Boron
Owner Telephone:	7607627000
Owner Address:	Not reported
Owner Address2:	14486 Borax Road
Owner City,St,Zip:	Boron, CA 93516-2000
Operational Status:	Active
Operator:	US Borax Inc-Boron
Operator Phone:	7607627000
Operator Address:	Not reported
Operator Address2:	14486 Borax Road
Operator City,St,Zip:	Boron, CA 93516-2000
Permit Date:	07/16/1996
Permit Status:	Permitted
Permitted Acreage:	$60.00
Activity:	Solid Waste Landfill
Regulation Status:	Permitted
Landuse Name:	Industrial,Agricultural
GIS Source:	GPS
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Monthly
Accepted Waste:	Construction/demolition,Industrial
Closure Date:	01/01/2023
Closure Type:	Estimated
Disposal Acreage:	$60.00

BORON MINE FACILITY (Continued) **S101612518**

SWIS Num: 15-AA-0278
Waste Discharge Requirement Num: III
Program Type: BOE Reporting Disposal Facility,Financial Assurance Responsibilities
Permitted Throughput with Units: 443
Actual Throughput with Units: Tons/day
Permitted Capacity with Units: 8500000
Remaining Capacity: 995196
Remaining Capacity with Units: Cubic Yards
Lat/Long: 35.04585 / -117.70987

LUST:
Lead Agency: KERN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T060292419
Global Id: T060292419
Latitude: 35.0222155
Longitude: -117.7033276
Status: Completed - Case Closed
Status Date: 08/31/1992
Case Worker: DAN
RB Case Number: 6B1501003T
Local Agency: KERN COUNTY
File Location: Not reported
Local Case Number: 550010
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T060292419
Contact Type: Local Agency Caseworker
Contact Name: DAN STARKEY
Organization Name: KERN COUNTY
Address: 2700 M Street, Suite 300
City: BAKERSFIELD
Email: dans@co.kern.ca.us
Phone Number: Not reported

LUST:
Global Id: T060292419
Action Type: Other
Date: 05/12/1992
Action: Leak Reported

Global Id: T060292419
Action Type: Other
Date: 05/11/1992
Action: Leak Discovery

Global Id: T060292419
Action Type: ENFORCEMENT
Date: 04/03/2002
Action: Staff Letter

Global Id: T060292419
Action Type: Other
Date: 04/01/1992

BORON MINE FACILITY (Continued) **S101612518**

Action: Leak Stopped

LUST:
Global Id: T060292419
Status: Completed - Case Closed
Status Date: 08/31/1992

Global Id: T060292419
Status: Open - Case Begin Date
Status Date: 04/01/1992

WMUDS/SWAT:
Edit Date: 19951026
Complexity: Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.
Primary Waste: PROCES
Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Base Meridian: SB
NPID: Not reported
Tonnage: 0
Regional Board ID: Not reported
Municipal Solid Waste: False
Superorder: False
Open To Public: False
Waste List: False
Agency Type: Private
Agency Name: US BORAX INC
Agency Department: ENGINEERING DEPT.
Agency Address: 14486 BORAX RD
Agency City,St,Zip: BORON CA 935162000
Agency Contact: DAVE WEISS
Agency Telephone: 7607627460
Land Owner Name: US BORAX AND CHEMICAL CORP.
Land Owner Address: N/A
Land Owner City,St,Zip: BORON, CA 93516
Land Owner Contact: MR. H. P. LIU
Land Owner Phone: 6197627000
Region: 6V
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Description: Not reported
Facility Telephone: Not reported

BORON MINE FACILITY (Continued) **S101612518**

SWAT Facility Name:	U.S. BORAX MINE & MILL
Primary SIC:	1474
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	EDWEDWJHM
Waste Discharge System:	True
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	True
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	U.S. BORAX AND CHEMICAL CORP.
Threat to Water Quality:	Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.
Sub Chapter 15:	True
Regional Board Project Officer:	EL
Number of WMUDS at Facility:	6
Section Range:	11N08W14
RCRA Facility:	No
Waste Discharge Requirements:	A
Self-Monitoring Rept. Frequency:	Quarterly Submittal
Waste Discharge System ID:	6B152004001
Solid Waste Information ID:	15-AA-0278

Edit Date:	Not reported
Complexity:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.
Primary Waste:	SLDWST
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Private
Agency Name:	US BORAX INC
Agency Department:	Not reported
Agency Address:	14486 BORAX RD
Agency City,St,Zip:	BORON CA 935162000
Agency Contact:	DAVE WEISS
Agency Telephone:	7607627460
Land Owner Name:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Land Owner Address:	Not reported
Land Owner City,St,Zip:	Not reported
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	6V
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	1474
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	False
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	Not reported
Threat to Water Quality:	Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Sub Chapter 15:	True
Regional Board Project Officer:	EL
Number of WMUDS at Facility:	1
Section Range:	Not reported
RCRA Facility:	No
Waste Discharge Requirements:	A
Self-Monitoring Rept. Frequency:	Quarterly Submittal
Waste Discharge System ID:	6B152004002
Solid Waste Information ID:	Not reported

CHMIRS:

OES Incident Number:	17-2210
OES notification:	03/17/2017
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	none
Spill Site:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	OTHER
Measure:	Gal(s)
Other:	mixed
Type:	CHEMICAL
Measure:	Lbs.
Other:	Not reported
Date/Time:	700
Year:	2017
Agency:	US Borax
Incident Date:	03/17/2017
Admin Agency:	Kern Co. Environmental Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	none
E Date:	Not reported
Substance:	Waste Water Tailings,
Quantity Released:	2100
Unknown:	Not reported
Substance #2:	Arsenic 2.15
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	A pipeline broke, causing the release of material. Caller describes the release as a leak. This occurred at a mining facility. It is

BORON MINE FACILITY (Continued) **S101612518**

estimated the leak occurred from 0500 hours to 0800 hours. The caller states normal operating procedure is to test the material. The material tested for arsenic 2.15 lbs. This amount is greater than the reportable quantity of 1 lb. Caller is making appropriate notifications. The material impacted a dirt road. Caller states the material did not impact water, evaporation ponds, surface water, or ground water. The release is contained and the reporting party is actively working to clean up the material. Caller states they vacuumed up the material and will excavate the affected earth on Monday.

OES Incident Number:	12-1794
OES notification:	03/27/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	2015
Year:	2012
Agency:	US Borax
Incident Date:	3/26/2012
Admin Agency:	Kern Co. Environmental Health Services Department

BORON MINE FACILITY (Continued) **S101612518**

Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Motor Oil
Quantity Released:	500
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states substance was released from a valve that failed during tank transfer. Substance released to a soil area. Caller states clean-up has been completed using vacuum truck and an excavator.
OES Incident Number:	8-2287
OES notification:	05/15/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	US Borax
Incident Date:	5/13/199812:00:00 AM
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Sulphuric acid with softner water
Gallons:	1
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	1
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Pinhole leak in stainless pipe, repairs are complete, cleanup complete.
OES Incident Number:	0-4720
OES notification:	10/13/2000
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2000
Agency:	US Borax
Incident Date:	10/11/200012:00:00 AM
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Oil Field
E Date:	Not reported
Substance:	Ammonium Nitrate Prill
Gallons:	0.000000
Pounds:	4
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Is contained with-in a truck, and the auger on the truck broke. The ammonium nitrate was washed into a holding containment area within the mine.
OES Incident Number:	12-7976
OES notification:	12/28/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**

BORON MINE FACILITY (Continued) **S101612518**

Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Merchant/Business
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1000
Year:	2012
Agency:	US Borax
Incident Date:	12/28/2012
Admin Agency:	Kern Co. Environmental Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Sewage - Raw
Quantity Released:	1,200
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Blockage in line to sewage lagoon caused release, material flowed onto soil, RP handled containment and clean up.
OES Incident Number:	16-5067
OES notification:	08/19/2016
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Refinery
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	CHEMICAL
Measure:	Gal(s)
Other:	Not reported
Date/Time:	930
Year:	2016
Agency:	Rio Tinto Minerals
Incident Date:	08/19/2016
Admin Agency:	Kern Co. Environmental Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Substance:	Process Liquor
Quantity Released:	750
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	RP states that sample ports from the tailings tank to evaporation pond were left open due operator error resulting in the release of 750 gallons of process liquor onto nearby soil. The release is contained and cleanup is underway. No waterways have been i
OES Incident Number:	4-5734
OES notification:	10/08/2014
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other

BORON MINE FACILITY (Continued) **S101612518**

Cleanup By:	No
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1600
Year:	2014
Agency:	US Borax
Incident Date:	10/8/2014
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Hydraulic Oil
Quantity Released:	150
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Mechanical
Fatals:	No
Comments:	Not reported
Description:	Caller states a drill rig had a hydraulic line fail releasing substance to soil. Area impacted is approximately 100 Square Ft. Caller states no impact to surface or ground water. Soil will be removed in the mining process.
OES Incident Number:	4-5952
OES notification:	10/19/2014
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Industrial Plant
Cleanup By:	No
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	CHEMICAL
Measure:	Gal(s)
Other:	Not reported
Date/Time:	2000
Year:	2014
Agency:	US Borax
Incident Date:	10/18/2014
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Processed Liquor
Quantity Released:	5000
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Mechanical
Fatals:	No
Comments:	Not reported
Description:	RP states that a mechanical failure resulted in the release of approx 5000 gal of Processed Liquor which contains approx 2.69 lbs of arsenic. The release was onto the slab on the ground, into

BORON MINE FACILITY (Continued) **S101612518**

a ditch and onto a roadway. The release is contained, cleanup is complete, and no waterways were impacted.

OES Incident Number:	0-1314
OES notification:	03/20/2000
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2000
Agency:	US Borax
Incident Date:	3/18/200012:00:00 AM
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Diesel
Gallons:	750
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0

BORON MINE FACILITY (Continued) **S101612518**

Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Haul truck drove over the berm and ruptured the fuel tank

LDS:

Global Id:	L10005585471
Latitude:	35.04484
Longitude:	-117.6980
Case Type:	Land Disposal Site
Status:	Open - Operating
Status Date:	10/26/2010
Lead Agency:	LAHONTAN RWQCB (REGION 6V)
Caseworker:	CG
Local Agency:	Not reported
RB Case Number:	6B152004002
LOC Case Number:	Not reported
File Location:	Regional Board Warehouse
Potential Media Affect:	Not reported
EDR Link ID:	L10005585471
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Global Id:	L10001386878
Latitude:	35.03969
Longitude:	-117.7023
Case Type:	Land Disposal Site
Status:	Open - Operating
Status Date:	06/24/1976
Lead Agency:	LAHONTAN RWQCB (REGION 6V)
Caseworker:	CG
Local Agency:	Not reported
RB Case Number:	6B152004001
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Not reported
EDR Link ID:	L10001386878
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Click here to access the California GeoTracker records for this facility:

ENF:

Region:	6B
Facility Id:	210080
Agency Name:	Not reported
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	LNDISP
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	371430
Region:	6B
Order / Resolution Number:	R6V-2006-0025
Enforcement Action Type:	Notice of Violation
Effective Date:	09/14/2009
Adoption/Issuance Date:	09/14/2009
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	NOV - RIO TINTO MINERALS (09/14/2009)
Description:	NOV requires Discharger to submit Revised Spill Report by Oct 1, 2009.
Program:	LNDISP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	Not reported
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	LNDISP
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	397542
Region:	6B
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	12/11/2013
Adoption/Issuance Date:	12/11/2013
Achieve Date:	Not reported
Termination Date:	12/11/2013
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 12/11/2013 for EIF Mojave, LLC
Description:	The facility was notified that they were in violation and that Antimony needed to be tested for during each sampling event of the surface impoundments.
Program:	LNDISP

BORON MINE FACILITY (Continued) **S101612518**

Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	6B
Facility Id:	210080
Agency Name:	Not reported
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	LNDISP
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	395155
Region:	6B
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	12/11/2013
Adoption/Issuance Date:	12/11/2013
Achieve Date:	Not reported
Termination Date:	02/28/2014
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Com 12/11/2013 for EIF Mojave, LLC
Description:	Water Board staff is working with the discharger to take preventitive measures to avoid reoccurence.
Program:	LNDISP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	226707
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISPOTH
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004002
Reg Measure Id:	376452
Reg Measure Type:	WDR
Region:	6B
Order #:	R6V-2010-0048
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	03/10/2014
Effective Date:	10/14/2010
Expiration/Review Date:	10/14/2020
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	59 - Land Disposal Site not paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	394166
Region:	6B
Order / Resolution Number:	Not reported
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	11/26/2013
Adoption/Issuance Date:	11/26/2013
Achieve Date:	Not reported
Termination Date:	11/26/2013
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Status:	Historical
Title:	SEL 11/26/2013 for US Borax Inc
Description:	Informed Discharger with an email that Table 4 was referenced in the SMR, but was not included in the SMR. Requested that Table 4 be submitted.
Program:	LNDISP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	6B
Facility Id:	226707
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004002
Reg Measure Id:	146443
Reg Measure Type:	WDR
Region:	6B
Order #:	89-059

BORON MINE FACILITY (Continued) **S101612518**

Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	11/03/2010
Effective Date:	04/13/1989
Expiration/Review Date:	04/13/2020
Termination Date:	10/14/2010
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	59 - Land Disposal Site not paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	248961
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	07/01/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	02/02/2011
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004002
Description:	Spoke to Discharger on 7-1-02. Board staff should receive a writted report by 7-16-02.
Program:	LNDISP
Latest Milestone Completion Date:	2002-07-16
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	226707
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254

BORON MINE FACILITY (Continued) **S101612518**

SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004002
Reg Measure Id:	146443
Reg Measure Type:	WDR
Region:	6B
Order #:	89-059
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	11/03/2010
Effective Date:	04/13/1989
Expiration/Review Date:	04/13/2020
Termination Date:	10/14/2010
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	59 - Land Disposal Site not paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	243824
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication

BORON MINE FACILITY (Continued) **S101612518**

Effective Date:	04/20/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	2000-04-24
Termination Date:	04/20/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004002
Description:	Telephone conversation to request confirmation samples. 5-8-00 samples to be collected due June 1, 2000.
Program:	LNDISP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	Not reported
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	LNDISP
# Of Programs:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	377136
Region:	6B
Order / Resolution Number:	R6V-2006-0025
Enforcement Action Type:	Notice of Violation
Effective Date:	12/24/2010
Adoption/Issuance Date:	12/24/2010
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Active
Title:	NOV - RIO TINTO MINERALS (12/24/2010)
Description:	NOV requires Discharger to submit results of the Tap Root Investigation and Updated Maintenance Procedures to prevent future releases of wastewater.
Program:	LNDISP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining

BORON MINE FACILITY (Continued) **S101612518**

Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	Not reported
# Of Programs:	Not reported
WDID:	6B152004001
Reg Measure Id:	160166
Reg Measure Type:	Unregulated
Region:	6B
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I

BORON MINE FACILITY (Continued) **S101612518**

Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	248691
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	08/27/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	02/02/2011
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Clean up impacted soil and place on Gangue Waste Pile. Pump up 15,000 gallons wastewater to Reclamation Ponds.
Program:	Not reported
Latest Milestone Completion Date:	2002-09-09
# Of Programs1:	Not reported
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	2
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISPOTH
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	306715
Reg Measure Type:	WDR
Region:	6B
Order #:	R6V-2006-0025
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	11/13/2015
Effective Date:	06/14/2006
Expiration/Review Date:	Not reported
Termination Date:	09/17/2015
WDR Review - Amend:	2015-02-11 00:00:00
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	2015-09-17 00:00:00
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	59 - Land Disposal Site not paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	356611
Region:	6B
Order / Resolution Number:	R6V-2006-0025
Enforcement Action Type:	Notice of Violation
Effective Date:	04/14/2008
Adoption/Issuance Date:	04/14/2008
Achieve Date:	Not reported
Termination Date:	04/30/2008
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Notice of Violation for US Borax Inc
Description:	Violation of Board Order No. R6V-2006-0025, Discharge Specification Section C (Prohibitions), Item 1 - discharge of wastewater other than to the authorized disposal sites specified in the Order.
Program:	LNDISP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0

BORON MINE FACILITY (Continued) **S101612518**

Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	252162
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	08/02/2004
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	01/31/2011
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Discharger failed to submit 1st 2004 Semi-Annual SMR.
Program:	LNDISP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas

BORON MINE FACILITY (Continued) **S101612518**

Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	245548
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	11/04/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	02/02/2011
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Prevent reoccurrence. Prevent automatic washdown to "R" Ponds.
Program:	LNDISP
Latest Milestone Completion Date:	2002-11-18
# Of Programs1:	1
Total Assessment Amount:	0

BORON MINE FACILITY (Continued) **S101612518**

Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001

BORON MINE FACILITY (Continued) **S101612518**

Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	244391
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	11/08/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	2000-11-21
Termination Date:	11/08/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Spill from sump 5 - plant wastewater/thickener #4 water to ground surface ~ 500 gallons
Program:	LNDISP
Latest Milestone Completion Date:	2000-11-21
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	244388
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Notice of Violation
Effective Date:	10/13/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	2000-12-08
Termination Date:	10/13/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Meeting with US Borax on 10-17-00 to discuss violations,

BORON MINE FACILITY (Continued) **S101612518**

	characterize pond water, and evaluate alternative corrective action.
Program:	LNDISP
Latest Milestone Completion Date:	2000-12-08
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	244384
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	09/28/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	2000-11-21
Termination Date:	09/28/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	I requested US Borax to excavate and remove affected soil and to determine exact cause of overflow. Follow-up report is due 10-28-00.
Program:	LNDISP
Latest Milestone Completion Date:	2000-11-21
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals

BORON MINE FACILITY (Continued) **S101612518**

SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	244341
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	09/24/2000
Adoption/Issuance Date:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Achieve Date:	2000-10-11
Termination Date:	09/24/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Awaiting sample results to determine extent of violation - verbal enforcement.
Program:	LNDISP
Latest Milestone Completion Date:	2000-10-11
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008

BORON MINE FACILITY (Continued) **S101612518**

Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	244126
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	06/22/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	2000-07-22
Termination Date:	06/22/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Hydraulic oil (1-200 gallons) discharged to mine pit at 800’ below ground surface (bgs). Illegal discharge, non permitted discharge will be cleaned up. Hydraulic excavator burned & release the oil. Awaiting cool down to excavate/remove contaminated oil
Program:	LNDISP
Latest Milestone Completion Date:	2000-07-22
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining

BORON MINE FACILITY (Continued) **S101612518**

Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I

BORON MINE FACILITY (Continued) **S101612518**

Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	244032
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Notice to Comply
Effective Date:	06/06/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	2000-07-06
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Discharger indicates repair will be complete in 1 week.
Program:	LNDISP
Latest Milestone Completion Date:	2000-07-06
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	243819
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	03/20/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	2000-03-23
Termination Date:	03/20/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	740 gallon spill OD diesel to top of overburden pile because diesel fueled loader hit a rock and punctured its fuel tank. Spill area 100’ x 120’ x 3" thick. No spill to ground surface water or ground water.
Program:	LNDISP
Latest Milestone Completion Date:	2000-03-23
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0

BORON MINE FACILITY (Continued) **S101612518**

Total $ Paid/Completed Amount:	0
Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	243775
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Notice of Violation
Effective Date:	03/06/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	2000-03-26
Termination Date:	03/06/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	An expansion joint at the tailings tank failed releasing approximately. 200 gal of 9 to 12% borate effluent solution to secondary containment and to ground surface.
Program:	LNDISP
Latest Milestone Completion Date:	2000-03-26
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1

BORON MINE FACILITY (Continued) **S101612518**

Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	241177
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	03/18/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	02/02/2011
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Informed discharger on 3-18-02 to file a spill report documenting spill clean-up by 4-1-02.
Program:	LNDISP
Latest Milestone Completion Date:	2002-04-01
# Of Programs1:	1

BORON MINE FACILITY (Continued) **S101612518**

Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical

BORON MINE FACILITY (Continued) **S101612518**

Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	238820
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	12/27/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	02/02/2011
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Foreman on duty will give further details of spill on 12-31-01.
Program:	LNDISP
Latest Milestone Completion Date:	2002-01-11
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining

BORON MINE FACILITY (Continued) **S101612518**

NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	238716
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	10/22/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	2001-10-26
Termination Date:	10/22/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001

BORON MINE FACILITY (Continued) **S101612518**

Description:	Clean up diesel spill to background. Cleanup completed 10/23/01 rpt rec'd on 10/26/01
Program:	LNDISP
Latest Milestone Completion Date:	2001-10-26
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	235356
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	07/10/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	2001-07-24
Termination Date:	07/10/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Recommend that US Borax drain the tank and repair. This is the second ccurrence since April.
Program:	LNDISP
Latest Milestone Completion Date:	2001-07-24
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	234683
Region:	6B
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	03/28/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	2001-04-11

BORON MINE FACILITY (Continued) **S101612518**

Termination Date:	03/28/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	Spill of diesel fuel to ground surface and fueling area.
Program:	LNDISP
Latest Milestone Completion Date:	2001-04-11
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B

BORON MINE FACILITY (Continued) **S101612518**

Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	223144
Region:	6B
Order / Resolution Number:	R6V-1998-0022
Enforcement Action Type:	Admin Civil Liability
Effective Date:	04/16/1998
Adoption/Issuance Date:	Not reported
Achieve Date:	1998-05-07
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	U.S BORAX DISCHARGED 7000 GALLONS OF COMMERCIAL GRADE SULFURIC ACID IN POND #6, VIOLATION OF WDRS.
Program:	LNDISP
Latest Milestone Completion Date:	2003-07-08
# Of Programs1:	1
Total Assessment Amount:	105000
Initial Assessed Amount:	0
Liability $ Amount:	105000
Project $ Amount:	0
Liability $ Paid:	105000
Project $ Completed:	0
Total $ Paid/Completed Amount:	105000
Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785

BORON MINE FACILITY (Continued) **S101612518**

Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	219702
Region:	6B
Order / Resolution Number:	85-016

BORON MINE FACILITY (Continued) **S101612518**

Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	12/31/1985
Adoption/Issuance Date:	Not reported
Achieve Date:	1990-05-10
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	REPORT SUBMITTAL & CLEANUP PLAN FOR LEAKING PONDS
Program:	LNDISP
Latest Milestone Completion Date:	1990-05-10
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	6B
Facility Id:	210080
Agency Name:	US Borax Inc
Place Type:	Mining
Place Subtype:	Salt Mining
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	35.004785
Place Longitude:	-117.703254
SIC Code 1:	1474
SIC Desc 1:	Potash, Soda, and Borate Minerals
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	212391
NAICS Desc 1:	Potash, Soda, and Borate Mineral Mining
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1

BORON MINE FACILITY (Continued) **S101612518**

WDID:	6B152004001
Reg Measure Id:	148008
Reg Measure Type:	WDR
Region:	6B
Order #:	01-019
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/11/2001
Effective Date:	04/11/2001
Expiration/Review Date:	04/11/2006
Termination Date:	04/11/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	19 - Non Billable by Administrative Determination
Direction/Voice:	Passive
Enforcement Id(EID):	219576
Region:	6B
Order / Resolution Number:	90-03701
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	05/10/1990
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 6B152004001
Description:	DISCHARGER REEVALUATING CLEANUP NEEDS. CAO BY REVISED WDR 90-03701
Program:	LNDISP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

CA Financial Assurance 2:

Region:	2
SWIS_NO:	15-AA-0278
Closure Approved:	Yes
Closure Inf Coverage Date:	06/01/2007

BORON MINE FACILITY (Continued) **S101612518**

Closure Plan Coverage:	$0.00
Closure Plan Date:	Not reported
PostClose Approved:	Yes
PostClose Adequacy Date:	Not reported
PostClose Inf Coverage:	$1,710,486.00
PostClose Inf Coverage Date:	06/01/2007
CorActCoverage:	$688,492.00
CorActApproved:	No
CorAct Mec Adequacy Date:	Not reported
CorAct Inf Coverage:	$688,492.00
CorActPlanCoverage:	$474,000.00
CorAct Plan Date:	11/15/2012
Lia Coverage:	$2,000,000.00
Lia Approved:	Yes
Review:	01/27/2009
Closure Mechanism A:	LETTER OF CREDIT
Closure Mechanism B:	Not reported
Closure Coverage:	$2,471,968.00
Closure Adequacy:	Not reported
Closure Inflation Estimate:	$2,471,968.00
Post Closure Mechanism A:	LETTER OF CREDIT
Post Closure Established A:	08/12/1994
Post Closure Mechanism B:	Not reported
Post Closure Coverate:	$1,710,486.00
Post Closure Adequacy:	Not reported
Corrective Action Extablished A:	Not reported
Corrective Actiont Coverage:	$688,492.00
Corrective Action Approved:	No
Corrective Action Inflation Estimate:	$688,492.00
Corrective Action Inflationdate:	05/16/2006
Corrective Action Plan Estimate:	$474,000.00
Liability Mechanism A:	INSURANCE
Liability Established A:	05/01/1996
Liability Mechanism B:	Not reported
CostAnniversary:	05/11/1999
ClosureEstablishedA:	08/12/1994
ClosureEstablishedB:	Not reported
ClosureDisbursement:	0
PostClosureEstablishedB:	Not reported
PostClosureDisbursement:	0
CorrectiveActionMechanismA:	Not reported
CorrectiveActionMechanismB:	Not reported
CorrectiveActionExtablishedB:	Not reported
CorrectiveActiontDisbursement:	0
LiabilityEstablishedB:	Not reported
LiabilityAdequacy:	Not reported
Responsible Party:	Not reported
Provider:	Not reported
Contact:	Not reported

NPDES:

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Order Number:	Not reported
WDID:	6B15I025554
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	01/21/2016
Operator Name:	Rio Tinto Minerals US Borax
Operator Address:	14486 Borax Rd
Operator City:	Boron
Operator State:	California
Operator Zip:	93516

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0
Region:	6B
Regulatory Measure ID:	456065
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	6B15I025554
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/10/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	01/14/2016
Discharge Name:	Rio Tinto Minerals US Borax
Discharge Address:	14486 Borax Rd
Discharge City:	Boron
Discharge State:	California
Discharge Zip:	93516
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	6B
Regulatory Measure ID:	456065
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	6B15I025554
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	01/14/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	06/10/2015
Processed Date:	06/10/2015
Status:	Terminated
Status Date:	01/21/2016
Place Size:	9000
Place Size Unit:	Acres
Contact:	Daniel Gillette
Contact Title:	Not reported
Contact Phone:	760-762-7000
Contact Phone Ext:	7046
Contact Email:	daniel.gillette@riotinto.com
Operator Name:	Rio Tinto Minerals US Borax
Operator Address:	14486 Borax Rd
Operator City:	Boron
Operator State:	California
Operator Zip:	93516
Operator Contact:	Daniel Gillette
Operator Contact Title:	Not reported
Operator Contact Phone:	760-762-7000
Operator Contact Phone Ext:	7046
Operator Contact Email:	daniel.gillette@riotinto.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Rogers Dry Lake
Certifier:	Daniel Gillette
Certifier Title:	Principal HSEQ Advisor
Certification Date:	18-JUN-15
Primary Sic:	1474-Potash, Soda, and Borate Minerals
Secondary Sic:	Not reported

BORON MINE FACILITY (Continued) **S101612518**

Tertiary Sic: Not reported

WDS:

Facility ID:	South Lahontan 152004001
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	Not reported
Subregion:	0
Facility Telephone:	7607627000
Facility Contact:	DAVE WEISS
Agency Name:	US BORAX INC
Agency Address:	14486 BORAX RD
Agency City,St,Zip:	BORON 935162000
Agency Contact:	DAVE WEISS
Agency Telephone:	7607627000
Agency Type:	Private
SIC Code:	1474
SIC Code 2:	Not reported
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Primary Waste:	PROCES
Waste Type2:	Not reported
Waste2:	Process Waste (Waste produced as part of the industrial/manufacturing process)
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	3
Baseline Flow:	2
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.
Complexity:	Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.
Facility ID:	South Lahontan 152004002

BORON MINE FACILITY (Continued) **S101612518**

Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	Not reported
Subregion:	0
Facility Telephone:	7607627000
Facility Contact:	DAVE WEISS
Agency Name:	US BORAX INC
Agency Address:	14486 BORAX RD
Agency City,St,Zip:	BORON 935162000
Agency Contact:	DAVE WEISS
Agency Telephone:	7607627000
Agency Type:	Private
SIC Code:	1474
SIC Code 2:	Not reported
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Primary Waste:	SLDWST
Waste Type2:	Not reported
Waste2:	Solid Wastes
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Complexity:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

CIWQS:

Agency:	Rio Tinto Minerals US Borax
Agency Address:	14486 Borax Rd, Boron, CA 93516
Place/Project Type:	Industrial - Potash, Soda, and Borate Minerals
SIC/NAICS:	1474
Region:	6V
Program:	INDSTW

BORON MINE FACILITY (Continued) **S101612518**

Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	6B15I025554
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	06/10/2015
Termination Date:	01/14/2016
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	2
Violations within 5 years:	2
Latitude:	35.03195
Longitude:	-117.70091

Agency:	US Borax Inc
Agency Address:	14486 Borax Road, Boron, CA 93516-2000
Place/Project Type:	Salt Mining
SIC/NAICS:	1474
Region:	6V
Program:	LNDISP, LNDISPOTH
Regulatory Measure Status:	Active
Regulatory Measure Type:	WDR
Order Number:	R6V-2015-0057
WDID:	6B152004001
NPDES Number:	Not reported
Adoption Date:	09/17/2015
Effective Date:	09/17/2015
Termination Date:	Not reported
Expiration/Review Date:	09/30/2025
Design Flow:	3
Major/Minor:	Not reported
Complexity:	A
TTWQ:	1
Enforcement Actions within 5 years:	2
Violations within 5 years:	6
Latitude:	35.004785
Longitude:	-117.703254

Agency:	US Borax Inc
Agency Address:	14486 Borax Road, Boron, CA 93516-2000
Place/Project Type:	Salt Mining
SIC/NAICS:	1474
Region:	6V
Program:	LNDISP, LNDISPOTH
Regulatory Measure Status:	Active
Regulatory Measure Type:	WDR
Order Number:	R6V-2010-0048
WDID:	6B152004002
NPDES Number:	Not reported
Adoption Date:	10/14/2010
Effective Date:	10/14/2010
Termination Date:	Not reported
Expiration/Review Date:	10/14/2020

BORON MINE FACILITY (Continued) **S101612518**

Design Flow:	0
Major/Minor:	Not reported
Complexity:	B
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	35.004785
Longitude:	-117.703254
Agency:	EIF Mojave, LLC
Agency Address:	Po Box 1090, Boron, CA 93596
Place/Project Type:	Salt Mining
SIC/NAICS:	1474
Region:	6V
Program:	LNDISPOTH
Regulatory Measure Status:	Historical
Regulatory Measure Type:	WDR
Order Number:	R6V-2006-0025
WDID:	6B152004001
NPDES Number:	Not reported
Adoption Date:	06/14/2006
Effective Date:	06/14/2006
Termination Date:	09/17/2015
Expiration/Review Date:	Not reported
Design Flow:	3
Major/Minor:	Not reported
Complexity:	A
TTWQ:	1
Enforcement Actions within 5 years:	2
Violations within 5 years:	6
Latitude:	35.004785
Longitude:	-117.703254

F34 **BORON MINE FACILITY (CHEMICAL PONDS A THROUGH E)** **CPS-SLIC S118189478**
NNE **14486 BORAX RD.** **CHMIRS N/A**
< 1/8 **BORON, CA 93516**
0.100 mi.
529 ft. **Site 6 of 8 in cluster F**

Actual:
2397 ft.

Focus Map:
11

CPS-SLIC:

Region:	STATE
Facility Status:	**Open - Remediation**
Status Date:	07/01/2001
Global Id:	SL206073825
Lead Agency:	LAHONTAN RWQCB (REGION 6V)
Lead Agency Case Number:	Not reported
Latitude:	35.0446841125128
Longitude:	-117.71764755249
Case Type:	Cleanup Program Site
Case Worker:	CG
Local Agency:	Not reported
RB Case Number:	SL206073825
File Location:	Regional Board
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

BORON MINE FACILITY (CHEMICAL PONDS A THROUGH E) (Continued) **S118189478**

Click here to access the California GeoTracker records for this facility:

CHMIRS:

OES Incident Number:	15-4080
OES notification:	07/17/2015
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Responsible Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	930
Year:	2015
Agency:	Rio Tinto
Incident Date:	07/17/2015
Admin Agency:	Kern Co. Environmental Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Hydraulic Oil
Quantity Released:	100
Unknown:	Not reported

BORON MINE FACILITY (CHEMICAL PONDS A THROUGH E) (Continued) **S118189478**

Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Caller states a hydraulic line failure on a drill and blast rig caused release on to a blast flat inside of a mine.

F35 **U S BORAX INC** **AST** **A100425524**
NNE **14486 BORAX RD** **N/A**
< 1/8 **BORON, CA 93516**
0.100 mi.
529 ft. **Site 7 of 8 in cluster F**

Actual:
2397 ft.

Focus Map:
11

AST:

Certified Unified Program Agencies:	Not reported
Owner:	U.S. BORAX INC
Total Gallons:	Not reported
CERSID:	10231831
Facility ID:	Not reported
Business Name:	U S BORAX INC
Phone:	(760) 762-7000
Fax:	Not reported
Mailing Address:	14486 BORAX RD
Mailing Address City:	BORON
Mailing Address State:	CA
Mailing Address Zip Code:	Not reported
Operator Name:	Rio Tinto Minerals, Boron Operations (U.S. Borax Inc.)
Operator Phone:	760-762-7000
Owner Phone:	(760) 762-7501
Owner Mail Address:	14486 BORAX RD
Owner State:	CA
Owner Zip Code:	Not reported
Owner Country:	United States
Property Owner Name:	Rio Tinto Minerals
Property Owner Phone:	Not reported
Property Owner Mailing Address:	8051 E. Maplewood AVE
Property Owner City:	Greenwood Village
Property Owner Stat :	CO
Property Owner Zip Code:	80111
Property Owner Country:	United States
EPAID:	CAD008323255

F36 **U S BORAX AND CHEMICAL** **SWEEPS UST** **S101631050**
NNE **14486 BORAX RD** **CA FID UST** **N/A**
< 1/8 **BORON, CA 93516** **CHMIRS**
0.100 mi.
529 ft. **Site 8 of 8 in cluster F**

Actual:
2397 ft.

Focus Map:
11

SWEEPS UST:

Status:	Active
Comp Number:	16901
Number:	1
Board Of Equalization:	Not reported
Referral Date:	05-28-92
Action Date:	05-28-92
Created Date:	05-22-92
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-016901-000001
Tank Status:	A
Capacity:	15000
Active Date:	05-28-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	1

CA FID UST:

Facility ID:	15000370
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	6197627000
Mail To:	Not reported
Mailing Address:	14486 BORAX RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BORON 935162000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

CHMIRS:

OES Incident Number:	12-5889
OES notification:	09/30/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported

U S BORAX AND CHEMICAL (Continued) **S101631050**

Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Lbs.
Other:	Not reported
Date/Time:	300
Year:	2012
Agency:	US Borax
Incident Date:	9/30/2012
Admin Agency:	Kern Co. Environmental Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Aresenic
Quantity Released:	5.9
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Per the caller there was a 5,000 gallon spill of tailings, which included 5.9 pounds of arsenic. The spill occured about 0300 this morning in an 8" above ground pipe, the pipe is HTPE and there was a break at a fitting where two sections come together. The spill was onto an unpaved area,

U S BORAX AND CHEMICAL (Continued) **S101631050**

there are no bodies of water and no public access. There is a vacuum truck that recovered about 95% of the spill and they will be scraping some of the dirt.

OES Incident Number:	08-1492
OES notification:	02/21/2008
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1630
Year:	2008
Agency:	US Forest
Incident Date:	2/20/2008
Admin Agency:	Kern Co. Environmental Health Services Dept
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	waste water with arsenic, 5 mol mother liquor
Quantity Released:	100,000
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported

U S BORAX AND CHEMICAL (Continued) **S101631050**

Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	RP States: The 5 mol tank overflowed and the overflow overwhelmed the sump system and the release went onto the dirt. This is the US BORAX mine.
OES Incident Number:	10-5458
OES notification:	09/10/2010
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1300

U S BORAX AND CHEMICAL (Continued) **S101631050**

Year:	2010
Agency:	US Borax
Incident Date:	9/10/2010
Admin Agency:	Kern Co. Environmental Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Sewage
Quantity Released:	1000
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A blockage in sewer line caused spill. The spill is contained.
OES Incident Number:	12-6491
OES notification:	10/26/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported

U S BORAX AND CHEMICAL (Continued) **S101631050**

Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Industrial Plant
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	2015
Year:	2012
Agency:	US Borax
Incident Date:	10/26/2012
Admin Agency:	Kern Co. Environmental Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Hydraulic Oil
Quantity Released:	75
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The caller is reporting a hydraulic line on truck broke and spilled hydraulic fluid.
OES Incident Number:	10-5158
OES notification:	08/27/2010
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported

U S BORAX AND CHEMICAL (Continued) **S101631050**

Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Rreporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	1630
Year:	2010
Agency:	Rio Tinto Mineral
Incident Date:	8/26/2010
Admin Agency:	Kern Co. Environmental Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Sump water
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Severe thunderstorm caused release of sump water which contains an unknown amount of arsenic, Water flowed for approximately 1 hour. Water flowed into the dirt before being contained. This is an open pit borax mine. RP handling clean up and disposal.
OES Incident Number:	10-6445
OES notification:	10/26/2010
OES Date:	Not reported

U S BORAX AND CHEMICAL (Continued) **S101631050**

OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	2120
Year:	2010
Agency:	Rio Pinto Operations
Incident Date:	10/23/2010
Admin Agency:	Kern Co. Environmental Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Fuel
Quantity Released:	750
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported

U S BORAX AND CHEMICAL (Continued) **S101631050**

#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A driver forgot to disconnect line during refueling and drove off breaking the connection. The fuel spilled into a bermed area and was contained there. The fuel was vacuumed up.

G37 **US BORAX, 6 NEW PONDS, PNDS A-E** **Toxic Pits** **S100925133**
NNE **AND PONDS 4-6 / BORAX ROAD** **N/A**
< 1/8 **BORON, CA**
0.104 mi.
547 ft. **Site 1 of 2 in cluster G**

Actual:
2392 ft.

Focus Map:
11

TOXIC PITS:

Region:	06
Task #:	06001
Owner:	U.S. BORAX & CHEMICAL CORP.
1/2 Mi Limit:	Y
Num. of Pits:	10
Cease Discharge Due:	/ /
Cease Discharge Complete:	08/14/89
Closure Due:	06/01/90
Closure Completed:	**/ /**
Status:	ACTIVE
Hydro Geological Assessment Report Due:	/ /
Final Hydro Geological Assessment Review Completed:	12/15/88

G38 **US BORAX AND CHEMICAL CORPORATION** **ENVIROSTOR** **S100714220**
NNE **HIGHWAY 58** **N/A**
< 1/8 **BORON, CA 93516**
0.116 mi.
611 ft. **Site 2 of 2 in cluster G**

Actual:
2392 ft.

Focus Map:
11

ENVIROSTOR:

Facility ID:	15280001
Status:	Refer: RCRA
Status Date:	01/16/1990
Site Code:	401254
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Sacramento
Assembly:	Not reported
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported

US BORAX AND CHEMICAL CORPORATION (Continued) **S100714220**

Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * UNSPECIFIED AQUEOUS SOLUTION
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: US BORAX, INC.
Alias Type: Alternate Name
Alias Name: CAD008323255
Alias Type: EPA Identification Number
Alias Name: L10001386878
Alias Type: GeoTracker Global ID
Alias Name: L10005585471
Alias Type: GeoTracker Global ID
Alias Name: SL206073825
Alias Type: GeoTracker Global ID
Alias Name: T060292419
Alias Type: GeoTracker Global ID
Alias Name: CAD008323255
Alias Type: HWTS Identification Code
Alias Name: 401254
Alias Type: Project Code (Site Code)
Alias Name: 15280001
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: 01/16/1990
Comments: Site Screening Done: Hazardous Waste Permit issued to facility, therefore, Resource Conservation and Recovery Act (RCRA) lead.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/08/1979
Comments: FACILITY IDENTIFIED VIA RECORD SEARCH.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

39
North
< 1/8
0.120 mi.
632 ft.

BORON AUTO BODY
26049 20 MULETEAM RD
BORON, CA 93516

RCRA-SQG
CA FID UST
FINDS
ECHO

1000335215
CAD982462855

Actual:
2438 ft.

Focus Map:
12

RCRA-SQG:

Date form received by agency:	12/11/1988
Facility name:	BORON AUTO BODY
Facility address:	26049 20 MULETEAM RD BORON, CA 93516
EPA ID:	CAD982462855
Mailing address:	20 MULETEAM RD BORON, CA 93516
Contact:	ENVIRONMENTAL MANAGER
Contact address:	26049 20 MULETEAM RD BORON, CA 93516
Contact country:	US
Contact telephone:	714-476-2658
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	0JERRY A LANGE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

BORON AUTO BODY (Continued) **1000335215**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

CA FID UST:

Facility ID:	15004597
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	6197626127
Mail To:	Not reported
Mailing Address:	PO BOX
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BORON 93516
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

FINDS:

Registry ID: 110002816463

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000335215
Registry ID:	110002816463
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002816463

40
NE
1/8-1/4
0.153 mi.
806 ft.

GREEN FIELD RECYCLING #1
12025 GARDINER ST
BORON, CA 93516

SWRCY **S107616244**
N/A

Actual:
2456 ft.

Focus Map:
12

SWRCY:

Reg Id:	26176
Cert Id:	RC12897
Mailing Address:	12025 Gardiner St
Mailing City:	Boron
Mailing State:	CA
Mailing Zip Code:	93516
Website:	Not reported
Email:	Not reported
Phone Number:	(760) 762-6773
Rural:	Y
Operation Begin Date:	02/14/2006
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Hours of Operation:	Mon Closed; Tue - Sat 9:00 am - 3:00 pm; Sun Closed
Organization ID:	18719
Organization Name:	Green Field Recycling

H41
North
1/8-1/4
0.192 mi.
1012 ft.

FEDERAL PRISON CAMP
HWY 395
BORON, CA 93516

Site 1 of 2 in cluster H

LUST **S110654362**
N/A

Actual:
2448 ft.

Focus Map:
12

LUST:

Lead Agency:	LAHONTAN RWQCB (REGION 6T)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0602900834
Global Id:	T0602900834
Latitude:	35.0016086
Longitude:	-117.6589265
Status:	Completed - Case Closed
Status Date:	01/14/2010
Case Worker:	TML
RB Case Number:	6B1500139T
Local Agency:	KERN COUNTY
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0602900834
Contact Type:	Local Agency Caseworker
Contact Name:	Kern County
Organization Name:	KERN COUNTY
Address:	Not reported
City:	R6V UNKNOWN
Email:	Not reported
Phone Number:	Not reported

FEDERAL PRISON CAMP (Continued) **S110654362**

Global Id: T0602900834
Contact Type: Regional Board Caseworker
Contact Name: TAMMY LUNDQUIST
Organization Name: LAHONTAN RWQCB (REGION 6T)
Address: 2501 LAKE TAHOE BLVD.
City: SOUTH LAKE TAHOE
Email: tammy.lundquist@waterboards.ca.gov
Phone Number: 5305425400

LUST:
Global Id: T0602900834
Action Type: Other
Date: 10/27/1989
Action: Leak Reported

Global Id: T0602900834
Action Type: ENFORCEMENT
Date: 03/13/2009
Action: Staff Letter

Global Id: T0602900834
Action Type: ENFORCEMENT
Date: 07/20/2009
Action: Letter - Notice

Global Id: T0602900834
Action Type: ENFORCEMENT
Date: 01/14/2010
Action: Closure/No Further Action Letter

Global Id: T0602900834
Action Type: ENFORCEMENT
Date: 04/03/2002
Action: Staff Letter

Global Id: T0602900834
Action Type: Other
Date: 09/29/1989
Action: Leak Discovery

Global Id: T0602900834
Action Type: Other
Date: 09/29/1989
Action: Leak Stopped

LUST:
Global Id: T0602900834
Status: Completed - Case Closed
Status Date: 01/14/2010

Global Id: T0602900834
Status: Open - Case Begin Date
Status Date: 09/29/1989

Global Id: T0602900834
Status: Open - Inactive

FEDERAL PRISON CAMP (Continued) **S110654362**

Status Date: 05/29/2009

Global Id: T0602900834
Status: Open - Site Assessment
Status Date: 01/11/1990

H42 **GEPHART SCHOOL** **LUST** **S110654369**
North **T11N R7W SECTION 19** **N/A**
1/8-1/4 **BORON, CA 93516**
0.192 mi.
1012 ft. **Site 2 of 2 in cluster H**

Actual:
2448 ft.

Focus Map:
12

LUST:
Lead Agency: KERN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0602900893
Global Id: T0602900893
Latitude: 35.0016086
Longitude: -117.6589265
Status: Completed - Case Closed
Status Date: 09/28/1995
Case Worker: KC
RB Case Number: 6B1500453T
Local Agency: KERN COUNTY
File Location: Not reported
Local Case Number: 560011
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0602900893
Contact Type: Local Agency Caseworker
Contact Name: Kern County
Organization Name: KERN COUNTY
Address: Not reported
City: R6V UNKNOWN
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0602900893
Action Type: Other
Date: 12/14/1992
Action: Leak Reported

Global Id: T0602900893
Action Type: Other
Date: 07/24/1992
Action: Leak Discovery

Global Id: T0602900893
Action Type: Other
Date: 07/24/1992
Action: Leak Stopped

GEPHART SCHOOL (Continued) **S110654369**

LUST:
Global Id: T0602900893
Status: Completed - Case Closed
Status Date: 09/28/1995

Global Id: T0602900893
Status: Open - Case Begin Date
Status Date: 07/24/1992

I43 **DEBORD SEPTIC TANK SERVICE** **HIST UST** **U001586499**
North **27044 ANDERSON ST** **N/A**
1/8-1/4 **BORON, CA 93516**
0.224 mi.
1184 ft. **Site 1 of 2 in cluster I**

Actual:
2460 ft.

Focus Map:
13

HIST UST:
File Number: 00024782
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00024782.pdf
Region: STATE
Facility ID: 00000032872
Facility Type: Other
Other Type: SEPTIC TANK SERVICE
Contact Name: DEBORD, HARRY OR DOROTHEA OWNE
Telephone: 6197625610
Owner Name: DEBORD, HARRY S. & DOROTHEA G.
Owner Address: 27044 ANDERSON ST.
Owner City,St,Zip: BORON, CA 93516
Total Tanks: 0001

Tank Num: 001
Container Num: 001
Year Installed: 1974
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

I44 **DEBORD-PRIVATE RESIDENCE** **UST** **U004113258**
North **27044 ANDERSON ST** **N/A**
1/8-1/4 **BORON, CA**
0.224 mi.
1184 ft. **Site 2 of 2 in cluster I**

Actual:
2460 ft.

Focus Map:
13

KERN CO. UST:
Region: Kern
Facility ID: Not reported
CERSID: Not reported
Owner Id: 560010
Owner Name: DEBORD, HARRY S

Tank Num: 1
Tank Capacity: 0

DEBORD-PRIVATE RESIDENCE (Continued) **U004113258**

Common Name: Not reported
Description: Not reported
Number of Compartments: Not reported
Date of Closure: Not reported
Mailing Address: Not reported
Mailing Address (care of): Not reported
Mailing City/State/Zip: Not reported

J45 **KERN COUNTY FIRE DEPT. STATION** **LUST** **S101620894**
NNW **26965 COTE ST** **SWEEPS UST** **N/A**
1/4-1/2 **BORON, CA 93516** **HIST UST**
0.350 mi. **CA FID UST**
1850 ft. **Site 1 of 2 in cluster J**

Actual:
2454 ft.

Focus Map:
12

LUST:
Lead Agency: LAHONTAN RWQCB (REGION 6T)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0602900899
Global Id: T0602900899
Latitude: 35.0031196
Longitude: -117.6505303
Status: Completed - Case Closed
Status Date: 11/14/2016
Case Worker: TML
RB Case Number: 6B1500472T
Local Agency: Not reported
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0602900899
Contact Type: Regional Board Caseworker
Contact Name: TAMMY LUNDQUIST
Organization Name: LAHONTAN RWQCB (REGION 6T)
Address: 2501 LAKE TAHOE BLVD.
City: SOUTH LAKE TAHOE
Email: tammy.lundquist@waterboards.ca.gov
Phone Number: 5305425400

LUST:
Global Id: T0602900899
Action Type: Other
Date: 05/18/1993
Action: Leak Reported

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 04/07/2016
Action: Notification - Public Notice of Case Closure

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 06/09/2016
Action: Email Correspondence

KERN COUNTY FIRE DEPT. STATION (Continued) **S101620894**

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 08/19/2016
Action: Email Correspondence

Global Id: T0602900899
Action Type: RESPONSE
Date: 08/31/2012
Action: Site Assessment Report

Global Id: T0602900899
Action Type: RESPONSE
Date: 08/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0602900899
Action Type: RESPONSE
Date: 03/02/2015
Action: Other Report / Document - Regulator Responded

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 02/27/2009
Action: Staff Letter

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 10/18/2016
Action: Email Correspondence

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 11/14/2016
Action: Closure/No Further Action Letter

Global Id: T0602900899
Action Type: RESPONSE
Date: 02/28/2013
Action: Verbal Communication

Global Id: T0602900899
Action Type: RESPONSE
Date: 11/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0602900899
Action Type: RESPONSE
Date: 03/31/2013
Action: Remedial Progress Report

Global Id: T0602900899
Action Type: RESPONSE
Date: 08/31/2011
Action: Other Report / Document

Global Id: T0602900899
Action Type: RESPONSE

KERN COUNTY FIRE DEPT. STATION (Continued) **S101620894**

Date: 03/03/2016
Action: Other Report / Document - Regulator Responded

Global Id: T0602900899
Action Type: RESPONSE
Date: 08/07/2015
Action: Soil Vapor Intrusion Investigation Workplan - Regulator Responded

Global Id: T0602900899
Action Type: RESPONSE
Date: 01/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0602900899
Action Type: RESPONSE
Date: 02/03/2015
Action: Email Correspondence

Global Id: T0602900899
Action Type: RESPONSE
Date: 10/25/2016
Action: Well Destruction Report

Global Id: T0602900899
Action Type: RESPONSE
Date: 07/12/2016
Action: Well Destruction Workplan - Regulator Responded

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 09/15/2011
Action: Verbal Enforcement

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 08/14/2009
Action: Staff Letter

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 08/24/2011
Action: Staff Letter

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 07/11/2011
Action: Referral to Regional Board

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 05/26/2011
Action: Staff Letter

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 10/19/2010
Action: Staff Letter

KERN COUNTY FIRE DEPT. STATION (Continued) **S101620894**

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 07/09/2010
Action: Staff Letter

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 12/06/2011
Action: Verbal Enforcement

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 02/16/2012
Action: Staff Letter

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 02/07/2012
Action: Verbal Enforcement

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 02/10/2012
Action: Staff Letter

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 04/04/2013
Action: Verbal Enforcement

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 04/25/2013
Action: Verbal Enforcement

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 10/22/2012
Action: Site Visit / Inspection / Sampling

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 02/26/2013
Action: Verbal Enforcement

Global Id: T0602900899
Action Type: RESPONSE
Date: 02/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 10/11/2001
Action: File review

Global Id: T0602900899
Action Type: ENFORCEMENT

KERN COUNTY FIRE DEPT. STATION (Continued) **S101620894**

Date: 01/09/2014
Action: Meeting

Global Id: T0602900899
Action Type: ENFORCEMENT
Date: 10/31/2014
Action: Email Correspondence

Global Id: T0602900899
Action Type: RESPONSE
Date: 05/15/2014
Action: Monitoring Report - Quarterly

Global Id: T0602900899
Action Type: RESPONSE
Date: 10/05/2015
Action: Email Correspondence

Global Id: T0602900899
Action Type: Other
Date: 03/21/1993
Action: Leak Discovery

Global Id: T0602900899
Action Type: Other
Date: 03/21/1993
Action: Leak Stopped

Global Id: T0602900899
Action Type: RESPONSE
Date: 10/06/2010
Action: Remedial Progress Report

Global Id: T0602900899
Action Type: RESPONSE
Date: 02/07/2012
Action: Soil and Water Investigation Workplan

Global Id: T0602900899
Action Type: RESPONSE
Date: 04/30/2012
Action: Monitoring Report - Quarterly

LUST:
Global Id: T0602900899
Status: Completed - Case Closed
Status Date: 11/14/2016

Global Id: T0602900899
Status: Open - Case Begin Date
Status Date: 03/21/1993

Global Id: T0602900899
Status: Open - Eligible for Closure
Status Date: 03/07/2016

Global Id: T0602900899

KERN COUNTY FIRE DEPT. STATION (Continued) **S101620894**

Status: Open - Eligible for Closure
Status Date: 04/07/2016

Global Id: T0602900899
Status: Open - Remediation
Status Date: 05/18/1993

Global Id: T0602900899
Status: Open - Site Assessment
Status Date: 05/18/1993

Global Id: T0602900899
Status: Open - Site Assessment
Status Date: 03/07/2016

Global Id: T0602900899
Status: Open - Site Assessment
Status Date: 03/07/2016

SWEEPS UST:
Status: Not reported
Comp Number: 18406
Number: Not reported
Board Of Equalization: 44-005941
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 15-000-018406-000001
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

HIST UST:
File Number: 00024738
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00024738.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported

KERN COUNTY FIRE DEPT. STATION (Continued) **S101620894**

Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 15000495
Regulated By: UTNKA
Regulated ID: 00018406
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 6197626167
Mail To: Not reported
Mailing Address: 26965 COTE ST
Mailing Address 2: Not reported
Mailing City,St,Zip: BORON 93516
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

J46 **KERN COUNTY FIRE STATION** **LUST** **S101295149**
NNW **26965 COTE** **HAZNET** **N/A**
1/4-1/2 **BORON, CA 93516** **HIST CORTESE**
0.350 mi.
1850 ft. **Site 2 of 2 in cluster J**

Actual:
2454 ft.

Focus Map:
12

LUST Region 6V:
Region: 6V
Case Number: 6B1500472T
Leak Record: 6/22/1993
Report Date: 5/18/1993
Reported By Address: Not reported
Responsible Party: KERN COUNTY FIRE DEPARTMENT
Operator: MIKE PARKER
Cross Street: ALLEY WAY
Local Agency: 15000L
Regional Board: 6V
Chemical: Gasoline
Case Type: Undefined
Funding: Not reported
Enforce Type: FREV
How Found: Tank Closure
How Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Global ID: T0602900899
Stop Date: 3/21/1993
Leak Confirm: 5/18/1993
Submit Workplan: Not reported
Prelim Assess: Not reported
Pollution Char: Not reported

KERN COUNTY FIRE STATION (Continued) **S101295149**

Remed Plan: 5/18/1993
Remed Action: Not reported
Monitoring: Not reported
Close Date: Not reported
Discovered: 3/21/1993
Enforce Date: 1/1/1965
Review Date: 6/22/1993
GW Qualifier: Not reported
Soil Qualifier: Not reported
MTBE class: *
Max MTBE Grnd Wtr: Not reported
Max MTBE Soil: Not reported
MTBE Counts: 0
MTBE Fuel: 1
MTBE Tested: NT
Organization Name: Not reported
Status: Remediation Plan
Contact: Not reported
Interim Action: No
Pilot Program: LUST
Lat/Long: 35 / -117.6505303
Staff Initials: GDC
Local Agency Staff: MIC
Lead Agency: Local Agency
Summary: Not reported
Basin Number: ANTELOPE VALLEY (6-4
Beneficial: Not reported
Priority: Not reported
UST Cleanup Fund ID: Not reported
Suspended: Not reported
Local Case Number: 560008
Amount: Not reported
Abate Method: Not reported
Water System: Not reported
Well Name: Not reported
Distance: 15199
Wst Disch Reqrmnt Global ID: Not reported
Wst Disch Reqrmnt Name: Not reported

HAZNET:
Facility Name: COUNTY OF KERN
envid: S101295149
Year: 2013
GEPAID: CAC002741288
Contact: NICK HAGEN
Telephone: 7146730276
Mailing Name: Not reported
Mailing Address: 1115 TRUXTUN AVE
Mailing City,St,Zip: BAKERSFIELD, CA 93301
Gen County: Kern
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.462
Cat Decode: Not reported

KERN COUNTY FIRE STATION (Continued) **S101295149**

Method Decode: Not reported
Facility County: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 15
Reg By: LTNKA
Reg Id: 5B1500472T

K47 **CIRCLE K STORE #749** **RCRA-SQG 1000174130**
North **12366 BORON AVE** **LUST CAD981679574**
1/4-1/2 **BORON, CA 93516** **HIST UST**
0.391 mi. **CA FID UST**
2063 ft. **Site 1 of 2 in cluster K** **FINDS**
ECHO
Actual: **HAZNET**
2452 ft. **HIST CORTESE**
Focus Map:
13

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: CIRCLE K STORE #749
Facility address: 12366 BORON AVE
BORON, CA 93516
EPA ID: CAD981679574
Mailing address: 5811 MANZANITA AVE
CARMICHAEL, CA 95608
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CIRCLE K CORP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999

CIRCLE K STORE #749 (Continued) **1000174130**

Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 10/16/1986
Site name: CIRCLE K STORE #749
Classification: Large Quantity Generator

Violation Status: No violations found

LUST:
Lead Agency: KERN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0602900961
Global Id: T0602900961
Latitude: 35.004245
Longitude: -117.649379
Status: Completed - Case Closed
Status Date: 10/24/1995
Case Worker: KC
RB Case Number: 6B1500669T
Local Agency: KERN COUNTY
File Location: Not reported
Local Case Number: 560003
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0602900961
Contact Type: Local Agency Caseworker
Contact Name: Kern County
Organization Name: KERN COUNTY

CIRCLE K STORE #749 (Continued) **1000174130**

Address: Not reported
City: R6V UNKNOWN
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0602900961
Action Type: Other
Date: 10/18/1994
Action: Leak Reported

Global Id: T0602900961
Action Type: Other
Date: 10/18/1994
Action: Leak Discovery

Global Id: T0602900961
Action Type: Other
Date: 10/18/1994
Action: Leak Stopped

LUST:
Global Id: T0602900961
Status: Completed - Case Closed
Status Date: 10/24/1995

Global Id: T0602900961
Status: Open - Case Begin Date
Status Date: 08/24/1994

Global Id: T0602900961
Status: Open - Site Assessment
Status Date: 08/24/1994

Global Id: T0602900961
Status: Open - Site Assessment
Status Date: 02/09/1995

HIST UST:
File Number: 00024697
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00024697.pdf
Region: STATE
Facility ID: 00000013796
Facility Type: Gas Station
Other Type: Not reported
Contact Name: JIM CHADWICK
Telephone: 8057625726
Owner Name: CIRCLE K CORPORATION
Owner Address: 4500 SOUTH 40TH STREET
Owner City,St,Zip: PHOENIX, AZ 85040
Total Tanks: 0003

Tank Num: 001
Container Num: 1
Year Installed: Not reported

CIRCLE K STORE #749 (Continued) **1000174130**

Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 15002088
Regulated By: UTNKA
Regulated ID: 00013796
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8057625726
Mail To: Not reported
Mailing Address: 12366 BORON AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: BORON 93516
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

FINDS:

Registry ID: 110002748830

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CIRCLE K STORE #749 (Continued) **1000174130**

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000174130
Registry ID:	110002748830
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002748830

HAZNET:

Facility Name:	CIRCLE K STORE #749
envid:	1000174130
Year:	1994
GEPAID:	CAD981679574
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	5811 MANZANITA AVE
Mailing City,St,Zip:	CARMICHAEL, CA 956080000
Gen County:	Not reported
TSD EPA ID:	CAT080011059
TSD County:	Not reported
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Tons:	1.4595
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Kern

HIST CORTESE:

Region:	CORTESE
Facility County Code:	15
Reg By:	LTNKA
Reg Id:	6B1500669T

K48 **CIRCLE K #749** **LUST** **U003992104**
North **12366 BORON AVE** **SWEEPS UST** **N/A**
1/4-1/2 **BORON, CA 93516**
0.391 mi.
2063 ft. **Site 2 of 2 in cluster K**

Actual:
2452 ft.

Focus Map:
13

LUST Region 6V:

Region:	6V
Case Number:	6B1500669T
Leak Record:	10/31/1994
Report Date:	10/18/1994
Reported By Address:	Not reported
Responsible Party:	CIRCLE K CORP
Operator:	CIRCLE K CORP
Cross Street:	Not reported
Local Agency:	15000L
Regional Board:	6V
Chemical:	Gasoline
Case Type:	Soil only

CIRCLE K #749 (Continued) **U003992104**

Funding:	F
Enforce Type:	Not reported
How Found:	Tank Closure
How Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Global ID:	T0602900961
Stop Date:	10/18/1994
Leak Confirm:	Not reported
Submit Workplan:	Not reported
Prelim Assess:	8/24/1994
Pollution Char:	2/9/1995
Remed Plan:	Not reported
Remed Action:	Not reported
Monitoring:	Not reported
Close Date:	10/24/1995
Discovered:	10/18/1994
Enforce Date:	Not reported
Review Date:	10/31/1994
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
MTBE class:	*
Max MTBE Grnd Wtr:	Not reported
Max MTBE Soil:	Not reported
MTBE Counts:	0
MTBE Fuel:	1
MTBE Tested:	NT
Organization Name:	Not reported
Status:	Case Closed
Contact:	Not reported
Interim Action:	Not reported
Pilot Program:	LUST
Lat/Long:	35 / -117.6499413
Staff Initials:	KD
Local Agency Staff:	SBC
Lead Agency:	Local Agency
Summary:	Not reported
Basin Number:	ANTELOPE VALLEY (6-4
Beneficial:	Not reported
Priority:	Not reported
UST Cleanup Fund ID:	Not reported
Suspended:	Not reported
Local Case Number:	560003
Amount:	Not reported
Abate Method:	Not reported
Water System:	Not reported
Well Name:	Not reported
Distance:	15396.38832
Wst Disch Reqrmnt Global ID:	Not reported
Wst Disch Reqrmnt Name:	Not reported

SWEEPS UST:

Status:	Not reported
Comp Number:	13796
Number:	Not reported
Board Of Equalization:	44-032073
Referral Date:	Not reported

CIRCLE K #749 (Continued) **U003992104**

Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-013796-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	3

Status:	Not reported
Comp Number:	13796
Number:	Not reported
Board Of Equalization:	44-032073
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-013796-000002
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	13796
Number:	Not reported
Board Of Equalization:	44-032073
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-013796-000003
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

L49 **BORON HIGH SCHOOL** **LUST** **S101620891**
NNE **26653 PROSPECT** **SWEEPS UST** **N/A**
1/4-1/2 **BORON, CA 93516** **CA FID UST**
0.448 mi.
2365 ft. **Site 1 of 2 in cluster L**

Actual:
2449 ft.

Focus Map:
12

LUST:

Lead Agency:	KERN COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T060299521
Global Id:	T060299521
Latitude:	35.0045322

BORON HIGH SCHOOL (Continued) **S101620891**

Longitude: -117.6573652
Status: Completed - Case Closed
Status Date: 03/14/1997
Case Worker: LVS
RB Case Number: 6B1501004T
Local Agency: KERN COUNTY
File Location: Not reported
Local Case Number: 560001
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel, Gasoline
Site History: Not reported

LUST:
Global Id: T060299521
Contact Type: Local Agency Caseworker
Contact Name: X -UNKNOWN
Organization Name: KERN COUNTY
Address: Not reported
City: UNKNOWN
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T060299521
Action Type: Other
Date: 03/18/1997
Action: Leak Reported

Global Id: T060299521
Action Type: REMEDIATION
Date: 03/18/1997
Action: Not reported

Global Id: T060299521
Action Type: Other
Date: 05/18/1994
Action: Leak Discovery

Global Id: T060299521
Action Type: Other
Date: 05/18/1994
Action: Leak Stopped

LUST:
Global Id: T060299521
Status: Completed - Case Closed
Status Date: 03/14/1997

Global Id: T060299521
Status: Open - Case Begin Date
Status Date: 05/18/1994

SWEEPS UST:
Status: Active
Comp Number: 32831

BORON HIGH SCHOOL (Continued) **S101620891**

Number: 4
Board Of Equalization: 44-006160
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 09-30-89
Owner Tank Id: MUROC 5
SWRCB Tank Id: 15-000-032831-000001
Tank Status: A
Capacity: 500
Active Date: 07-01-85
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: 4

Status: Active
Comp Number: 32831
Number: 4
Board Of Equalization: 44-006160
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 09-30-89
Owner Tank Id: MUROC 3
SWRCB Tank Id: 15-000-032831-000003
Tank Status: A
Capacity: 6000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 32831
Number: 4
Board Of Equalization: 44-006160
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 09-30-89
Owner Tank Id: MUROC 2
SWRCB Tank Id: 15-000-032831-000004
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 32831
Number: 4
Board Of Equalization: 44-006160
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 09-30-89
Owner Tank Id: MUROC 1

BORON HIGH SCHOOL (Continued) **S101620891**

SWRCB Tank Id:	15-000-032831-000005
Tank Status:	A
Capacity:	12000
Active Date:	07-01-85
Tank Use:	OIL
STG:	W
Content:	WASTE OIL
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	32831
Number:	Not reported
Board Of Equalization:	44-006160
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	15-000-032831-000002
Tank Status:	Not reported
Capacity:	4000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	1

CA FID UST:

Facility ID:	15000459
Regulated By:	UTNKA
Regulated ID:	00032831
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	6197625882
Mail To:	Not reported
Mailing Address:	26656 PROSPECT
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BORON 93516
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

L50 **BORON MAINTENANCE FACILITY** **LUST** **S105193263**
NNE **26653 PROSPECT AVENUE** **N/A**
1/4-1/2 **BORON, CA 93516**
0.448 mi.
2365 ft. **Site 2 of 2 in cluster L**

Actual:
2449 ft.

Focus Map:
12

LUST Region 6V:

Region:	6V
Case Number:	6B1501004T
Leak Record:	Not reported
Report Date:	3/18/1997
Reported By Address:	26653 PROSPECT AVENUE

BORON MAINTENANCE FACILITY (Continued) **S105193263**

Responsible Party:	UNKNOWN
Operator:	UNKNOWN
Cross Street:	Not reported
Local Agency:	15000L
Regional Board:	6V
Chemical:	Gasoline
Case Type:	Soil only
Funding:	Not reported
Enforce Type:	Not reported
How Found:	OM
How Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Global ID:	T060299521
Stop Date:	5/18/1994
Leak Confirm:	Not reported
Submit Workplan:	Not reported
Prelim Assess:	Not reported
Pollution Char:	Not reported
Remed Plan:	Not reported
Remed Action:	Not reported
Monitoring:	Not reported
Close Date:	3/14/1997
Discovered:	5/18/1994
Enforce Date:	Not reported
Review Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
MTBE class:	*
Max MTBE Grnd Wtr:	Not reported
Max MTBE Soil:	Not reported
MTBE Counts:	0
MTBE Fuel:	1
MTBE Tested:	NT
Organization Name:	Not reported
Status:	Case Closed
Contact:	Not reported
Interim Action:	Not reported
Pilot Program:	LUST
Lat/Long:	35 / -117.654463
Staff Initials:	ETL
Local Agency Staff:	LVS
Lead Agency:	Local Agency
Summary:	Haz Mat incident report filed : TANK REMOVAL : UNKNOWN
Basin Number:	ANTELOPE VALLEY (6-4
Beneficial:	Not reported
Priority:	Not reported
UST Cleanup Fund ID:	Not reported
Suspended:	Not reported
Local Case Number:	560001
Amount:	Not reported
Abate Method:	Not reported
Water System:	Not reported
Well Name:	Not reported
Distance:	14049.31742
Wst Disch Reqrmnt Global ID:	Not reported
Wst Disch Reqrmnt Name:	Not reported

51
North
1/2-1
0.762 mi.
4026 ft.

U.S. BORAX MINE
NORTH ON BORAX RD, OFF HWY 58, 4M NW OF
BORON, CA 93516

SEMS-ARCHIVE
CORRACTS
RCRA-LQG
FINDS
ECHO

1015732641
CAD008323255

Actual:
2393 ft.

Focus Map:
4

SEMS Archive:

Site ID:	0904521
EPA ID:	CAD008323255
Cong District:	20
FIPS Code:	06029
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information
Latitude:	35.003333
Longitude:	-117.650000

SEMS Archive Detail:

Region:	09
Site ID:	0904521
EPA ID:	CAD008323255
Site Name:	U.S. BORAX MINE
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1996-01-23 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	09
Site ID:	0904521
EPA ID:	CAD008323255
Site Name:	U.S. BORAX MINE
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1991-07-15 04:00:00
Finish Date:	1991-07-15 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0904521
EPA ID:	CAD008323255
Site Name:	U.S. BORAX MINE
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1992-10-30 05:00:00

U.S. BORAX MINE (Continued) **1015732641**

Qual: D
Current Action Lead: EPA Perf

CORRACTS:
EPA ID: CAD008323255
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19930331
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): 212391
Potash, Soda, and Borate Mineral Mining
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-LQG:
Date form received by agency: 02/25/2016
Facility name: U.S. BORAX INC.
Facility address: 14886 BORAX ROAD
BORON, CA 93516
EPA ID: CAD008323255
Mailing address: BORAX ROAD
BORON, CA 93516
Contact: ERIC M JONES
Contact address: BORAX ROAD
BORON, CA 93516
Contact country: US
Contact telephone: 760-762-7313
Contact email: ERIC.JONES@RIOTINTO.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: US BORAX
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private

U.S. BORAX MINE (Continued) **1015732641**

Owner/Operator Type: Operator
Owner/Op start date: 01/01/1928
Owner/Op end date: Not reported

Owner/operator name: U.S. BORAX INC.
Owner/operator address: EAST MAPLEWOOD AVENUE
GREENWOOD VILLAGE, CO 80111
Owner/operator country: US
Owner/operator telephone: 303-713-5000
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1928
Owner/Op end date: Not reported

Owner/operator name: RIO TINTO AMERICA INC
Owner/operator address: 3595 S 8309 W
MAGNA, UT 84044
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/18/1989
Owner/Op end date: Not reported

Owner/operator name: U.S. BORAX INC.
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1928
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No

U.S. BORAX MINE (Continued) **1015732641**

Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: Yes
Generated waste on-site: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 172
. Waste name: Metal dust (see 121) and machining waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 711
. Waste name: Liquids with cyanides > 1000 mg/l

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

U.S. BORAX MINE (Continued) **1015732641**

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

U.S. BORAX MINE (Continued) **1015732641**

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:
Date form received by agency: 03/01/2014
Site name: US BORAX INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

U.S. BORAX MINE (Continued) **1015732641**

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P106
. Waste name: SODIUM CYANIDE

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U154
. Waste name: METHANOL (I)

Date form received by agency: 02/28/2006

U.S. BORAX MINE (Continued) **1015732641**

Site name: US BORAX BORON OPERATIONS
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/28/2006
Site name: US BORAX BORON OPERATIONS
Classification: Small Quantity Generator

Date form received by agency: 01/29/2004
Site name: U.S. BORAX BORON OPERATIONS
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

U.S. BORAX MINE (Continued) **1015732641**

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 01/22/2002
Site name: U. S. BORAX BORON OPERATIONS
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D008
. Waste name: LEAD

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

U.S. BORAX MINE (Continued) **1015732641**

Date form received by agency: 10/12/2000
Site name: U.S. BORAX, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: U.S. BORAX INC.
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: US BORAX INC
Classification: Large Quantity Generator

Date form received by agency: 02/22/1996
Site name: U.S. BORAX INC.
Classification: Large Quantity Generator

Date form received by agency: 02/24/1994
Site name: US BORAX INC
Classification: Large Quantity Generator

Date form received by agency: 04/09/1993
Site name: US BORAX INC
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992
Site name: BORON OPERATIONS
Classification: Large Quantity Generator

Date form received by agency: 04/16/1990
Site name: US BORAX & CHEMICAL CORP
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 9201

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 5683

Waste code: D003

U.S. BORAX MINE (Continued) **1015732641**

Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs): 139

Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 5407

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 5268

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 5407

Waste code: D008
Waste name: LEAD
Amount (Lbs): 5872

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 139

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 5268

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 604

Waste code: D039
Waste name: TETRACHLOROETHYLENE
Amount (Lbs): 604

Waste code: D040
Waste name: TRICHLOROETHYLENE
Amount (Lbs): 850

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 5268

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

U.S. BORAX MINE (Continued) **1015732641**

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 5268

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 5268

Corrective Action Summary:
Event date: 11/16/1992
Event: RFA COMPLETED-ASSESSMENT WAS A PA-PLUS

Event date: 03/31/1993
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 03/31/1993
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Universal Waste - Large Quantity Handlers
Date violation determined: 05/03/2011
Date achieved compliance: 12/13/2012
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/03/2011
Date achieved compliance: 05/03/2016
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported

U.S. BORAX MINE (Continued) **1015732641**

Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 05/03/2011
Date achieved compliance: 12/13/2012
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.50-60
Area of violation: Generators - General
Date violation determined: 05/22/1997
Date achieved compliance: 05/29/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/22/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 02/04/1994
Date achieved compliance: 03/07/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 02/08/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 1700
Final penalty amount: 1700
Paid penalty amount: 1700

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 02/04/1994
Date achieved compliance: 03/17/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 02/08/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

U.S. BORAX MINE (Continued) **1015732641**

Enforcement lead agency: State
Proposed penalty amount: 1700
Final penalty amount: 1700
Paid penalty amount: 1700

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 02/04/1994
Date achieved compliance: 03/17/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 02/08/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 1700
Final penalty amount: 1700
Paid penalty amount: 1700

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 01/15/1992
Date achieved compliance: 12/23/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 01/15/1992
Date achieved compliance: 12/23/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/04/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 01/15/1992
Date achieved compliance: 12/23/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/04/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

U.S. BORAX MINE (Continued) **1015732641**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 01/15/1992
Date achieved compliance: 12/23/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.40-43.D
Area of violation: Generators - General
Date violation determined: 01/15/1992
Date achieved compliance: 12/23/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 01/15/1992
Date achieved compliance: 12/23/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 01/15/1992
Date achieved compliance: 12/23/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/04/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

U.S. BORAX MINE (Continued) **1015732641**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 01/15/1992
Date achieved compliance: 12/23/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 01/15/1992
Date achieved compliance: 12/23/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/04/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.40-43.D
Area of violation: Generators - General
Date violation determined: 01/15/1992
Date achieved compliance: 12/23/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/04/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 01/12/1987
Date achieved compliance: 12/23/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/12/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

U.S. BORAX MINE (Continued) **1015732641**

Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 07/10/1985
Date achieved compliance: 01/12/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/12/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 12/09/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/21/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 11/01/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/03/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 12/13/2012
Evaluation lead agency: EPA

Evaluation date: 05/03/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Large Quantity Handlers
Date achieved compliance: 12/13/2012
Evaluation lead agency: EPA

Evaluation date: 05/03/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/03/2016
Evaluation lead agency: EPA

Evaluation date: 02/03/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported

U.S. BORAX MINE (Continued) **1015732641**

Evaluation lead agency: State

Evaluation date: 05/22/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/29/1997
Evaluation lead agency: State

Evaluation date: 01/11/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/07/1994
Evaluation lead agency: State

Evaluation date: 01/11/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/17/1994
Evaluation lead agency: State

Evaluation date: 01/19/1993
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/05/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/23/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/23/1993
Evaluation lead agency: State

Evaluation date: 07/23/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 12/23/1993
Evaluation lead agency: State

Evaluation date: 07/23/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/23/1993
Evaluation lead agency: State

Evaluation date: 01/12/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/23/1993
Evaluation lead agency: State

Evaluation date: 01/29/1986

U.S. BORAX MINE (Continued) **1015732641**

Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/10/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/12/1987
Evaluation lead agency: State

FINDS:

Registry ID: 110017398145

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

AIR SYNTHETIC MINOR

AIR EMISSIONS CLASSIFICATION UNKNOWN

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US Emissions & Generation Resource Database (EGRID) contains data on emissions and resource mix for virtually every power plant and company that generates electricity in the United States.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

US EPA RACT/BACT/LAER Clearinghouse (RBLC) database contains case-specific information on the "Best Available" air pollution technologies that have been required to reduce the emission of air pollutants from stationary sources (e.g., power plants, steel mills, chemical plants, etc.). RACT, or Reasonably Available Control Technology, is required on existing sources in areas that are not meeting national ambient air quality standards. BACT, or Best Available Control Technology, is required on major new or modified

U.S. BORAX MINE (Continued) **1015732641**

sources in clean areas. LAER, or Lowest Achievable Emission Rate, is required on major new or modified sources in non-attainment areas.

GREENHOUSE GAS REPORTER

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1015732641
Registry ID:	110017398145
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110017398145

Count: 76 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BORON	97381075		BORON STATION		ERNS
BORON	8756989		END OF BORAX RD		ERNS
BORON	U001586497	BORON TWR	BORON FEDERAL PRISON	93516	WMUDS/SWAT, HIST UST
BORON	S101620897	UNITED STATES BORAX & CHEMICAL	HIGHWAY 158 + BORAX RD	93516	SWEEPS UST, CA FID UST
BORON	S118416549	UNITED STATES BORAX AND CHEMICAL	HWY 158 BORAX RD	93516	HIST UST
BORON	U001586509	UNITED STATES BORAX & CHEMICAL	HWY 158 + BORAX RD	93516	HIST UST
BORON	2008447639	BORAX CHEMICAL CORPORATION,	BORAX CHEMICAL CORPORATION,		HMIRS
BORON	S106395573		2 MILES NORTHEAST OF HIGHWAY 58 OFFRAMP TO BORON RD.	93516	CHMIRS
BORON	S111753399		AT THE NORTH END BORON AVENUE, CLOSEST CROSS STREET IS HIGHWAY 58	93516	CHMIRS
BORON	S107452212		JUST EAST OF BORON CROSSING AT MP 783.8		CHMIRS
BORON	S112826869		MPM 784.8 ON THE MOJAVE SUBDIVISION, CLOSEST CROSS STREET IS BORON ROAD		CHMIRS
BORON	S109037065		2 MILES WEST OF BORON		CHMIRS
BORON	S109042215		HWY 58 ON BORON AVE		CHMIRS
BORON	S109044431		MM 783.84, ON THE MOJAVE SUB-DIVISION AT BORON AVENUE.		CHMIRS
BORON	S113473058		SR 58 AT BORON REST AREA		CHMIRS
BORON	S105666179		HWY. 58 AT BORON REST AREA.		CHMIRS
BORON	S105652085		HWY 58 AT AMARGO AT SAN BERNARDINO CO LINE		CHMIRS
BORON	S117977058		WB HWY 58 NEAR BORON		CHMIRS
BORON	S111753234		PRILL STORAGE AREA, 14486 BORAX ROAD	93516	CHMIRS
BORON	S118739201		SOUTH OF SHIPPING SUMP, NORTH OF SEWAGE PUMPS: 14486 BORAX RD	93516	CHMIRS
BORON	S118999229		SR-58 JEO BORAX RD	93516	CHMIRS
BORON	S108404219		1448 BORAX RD	93516	CHMIRS
BORON	S106398233		US BORAX MINE SITE, 14486 BORAX ROAD		CHMIRS
BORON	1005438729	UNITED STATES BORAX & CHEMICAL CORP	BORAX ROAD	93516	SSTS
BORON	1005438768	US BORAX & CHEMICAL CORP	BORAX RD	93516	SSTS
BORON	1023206323	PARK KNOLLS SUBDIVISION	1 MI NW OF BORON	93596	FINDS
BORON	1023360509	BORON STP	WEST BORON	93596	FINDS
BORON	1023260301	DEBORD SEPTAGE PONDS	2 MI NORTH OF BORON	93516	FINDS
BORON	1023218803	BORON CLASS III LANDFILL	5 MI SO OF BORON	93516	FINDS
BORON	1023333382	BORON REST FACILITY	HWY 58 W OF BORON	93516	FINDS
BORON	1023357495	SOUTHERN CALIFORNIA EDISON AMARGO SUBSTATION	ALLEY N/O AMARGO RD. E/O BORON AVE.	93516	FINDS
BORON	1023353914	DESERT LAKE CSD WTF	W OF BORON	93516	FINDS
BORON	1024658285	ROSS E SWINDELHURST DMD	12313 BORON AVE	93516	FINDS
BORON	1024629506	AMES CONSTRUCTION INC RIO TINTO MINERALS	14486 BORAX RD	93516	FINDS
BORON	1023345486	SOUTHERN CALIFORNIA EDISON HOLGATE SUBSTATION	ON BORAX RD 1/2 MI NORTH OF STATE HIGHWAY 58	93516	FINDS
BORON	S112886201	BORAX	1.25 MI N OF HWY 58 ON BORAX RD	93516	HAZNET
BORON	S123075821	MOJAVE COGENERATION CO LP	BORAX RD 3/4 MI N OF HWY 58	93516	HAZNET
EDWARD	S106825473	AIR FORCE FLIGHT TEST CENTER	EDWARDS AIR FORCE BASE	93524	EMI

Count: 76 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
EDWARDS	2014071152		EDWARDS AIR FORCE BASE		ERNS
EDWARDS	S118411619	JET PROPULGION LABORATORY/EDWA	BLDG 4231 EDWARDS AIR FORCE	93523	HIST UST
EDWARDS	S116362191		EDWARDS AIR FORCE BASE		CHMIRS
EDWARDS	1023271740	EDWARDS AIR FORCE BASE - CENTER GAS STATIONNA FORMER BUILDING 4854	EDWARDS AIR FORCE BASE	93523	FINDS
EDWARDS	1023329691	SITE 144NA BLDG 8475	EDWARDSAFB EDWARDS KERN CO	93524	FINDS
EDWARDS	S106825474	AIR FORCE FLIGHT TEST CENTER	EDWARDS AIR FORCE BASE	93523	EMI
EDWARDS AFB	S105629912		1MI WEST OF BORON, 20 MULETEAM RD, RICH RD		CHMIRS
EDWARDS AFB	1023263295	EAFB-PL CLASS III LANDFILL	5.5 MI SW OF BORON	93523	FINDS
EDWARDS AFB	S121635514	EAFB-PL CLASS III LANDFILL	5.5 MI SW OF BORON	93523	CIWQS
EDWARDS AFB CA	S100838394	EAFB-PL CLASS III LANDFILL	5.5 MI SW OF BORON	93523	WMUDS/SWAT
KERN COUNTY	2016158669		LOWER KERN RIVER		ERNS
KERN COUNTY	8855537		KERN RIVER OIL FIELD CP REDBANK LEASE		ERNS
KERN COUNTY	8851580		KERN FIELD SAN MARTINEZ CANYON ROAD		ERNS
KERN COUNTY	87495		SEC 30 TNSHIP 30S RANGE 22E KERN CNTY		ERNS
KERN COUNTY	906158		KERN RIVER OIL FIELD		ERNS
KERN COUNTY	9178052		KERN RIDGE LEASE		ERNS
KERN COUNTY	9160059		KERN RIDGE FIELD		ERNS
KERN COUNTY	2005771723		WEST SIDE OF KERN COUNTY		ERNS
KERN COUNTY	S107538767		HIGHWAY 99 AND DAVID ROAD/KERN COUNTY		CDL
KERN COUNTY	S107539095		KERN FRIANT CANAL (SEE CLUE)		CDL
KERN COUNTY	S106389003		ANGOS DEHY FACILITY KERN RIVER FIELD S-13 T-28S R-27E		CHMIRS
KERN COUNTY	S106389118		BOILER ROOM,KERN MEDICAL CENTER 830 FLOWER STREET, BFD		CHMIRS
KERN COUNTY	S106389215		S-31, T-28, R-28, KERN RIVER OIL FIELD WELL #8 LEASE NAME : HANFORD AND FRESNO		CHMIRS
KERN COUNTY	S106389263		S-3 T-29 R-28 CHEVRON USA KERN RIVER LEASE, BAKERSFIELD		CHMIRS
KERN COUNTY	S105630371		S 32 T32 R29 KERN CO		CHMIRS
KERN COUNTY	S105634868		WELL SJ 813 KERN RIVER FIELD S 5 T 29 R 2 8		CHMIRS
KERN COUNTY	S105636973		SENATOR 71, BAKERSIELD-KERN RIVER FIELD		CHMIRS
KERN COUNTY	S105631089		KERN RIVER FIELD - SEC 29 T 28 R 28		CHMIRS
KERN COUNTY	S105636005		SR 99 AT KIMBERLINA (SOUTHBOUND) KERN CO		CHMIRS
KERN COUNTY	S105630133		KERN RIVER FIELD S 30 T 28 R 28		CHMIRS
KERN COUNTY	M300000668	US BORAX INC	BORON MINE		US MINES
KERN COUNTY	S120028160	DRILLING SUMPS - KERN FRONT OIL FIELD	KERN FRONT OIL FIELD		CIWQS
LANCASTER	S110424249		SOUTH BASE, BUILD 151, EDWARDS AIR FORCE BASE	93524	CHMIRS
RIDGECREST	S122248778	PG&E 2018 GAS TRANSMISSION PROGRAM LAHONTAN REGION 6	KRAMER JUNCTION EAST OF BORON AND 65 MILES NORTH TO TRONA	93516	NPDES
ROSAMOND	S110421438		BUILDING 369, EDWARDS AIR FORCE BASE	93524	CHMIRS
UNINCORPORATED COUN	S111756420		BUILDING 151, EDWARDS AIR FORCE BASE, SOUTH BASE, CLOSEST CITY IS MOJAVE	93524	CHMIRS
UNINCORPORATED COUN	S105662705		SOUTH BAY SPUR LOCATED AT EDWARDS AIR FORCE BASE	93524	CHMIRS
UNINCORPORATED COUN	S106394978		BUILDING 1440, EDWARDS AFB, IN THE KERN CO. PORTION OF THE BASE	93524	CHMIRS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

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: 02/06/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 28

Source: EPA
Telephone: N/A
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

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: 02/06/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 28

Source: EPA
Telephone: N/A
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/06/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 28

Source: EPA
Telephone: N/A
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
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: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list 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). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/06/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 28

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS 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 the 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. The 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 potential NPL site.

Date of Government Version: 02/06/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 28

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

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: 10/17/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 43

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

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: 02/04/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 28

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent NPL

CA 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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

CA 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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF (SWIS): Solid Waste Information System
Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

CA 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

CA 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

CA 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

CA 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

CA 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

CA 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

CA 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

CA 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

CA 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

CA 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

CA LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

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: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

CA CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

CA 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

CA 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

CA 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

CA 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

CA 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

CA 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

CA 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

CA 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

CA 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

CA 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

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

State and tribal registered storage tank lists

CA UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

CA UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

CA MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

CA AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R1: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: N/A
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: N/A
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: N/A
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: N/A
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: N/A
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: N/A
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: N/A
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: N/A
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN VCP R1: 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

State and tribal voluntary cleanup sites

CA 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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

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

State and tribal Brownfields sites

CA BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/20/2018
Date Data Arrived at EDR: 12/21/2018
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 69

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

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: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/19/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

CA 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: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: No Update Planned

CA SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

CA HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 09/28/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
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: 01/29/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

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: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

CA 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

CA 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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CA 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: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

CA CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

CA 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

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: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

CA 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

CA UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Annually

CA 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

CA SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

CA CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

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

Local Land Records

CA LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

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: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

CA 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: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 41

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Records of Emergency Release Reports

CA 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: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

CA LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

CA MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

CA 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

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

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: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/20/2019
Next Scheduled EDR Contact: 06/03/2019
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: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

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: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: N/A

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: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/27/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

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: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

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: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

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: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Every 4 Years

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: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

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: 03/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

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: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Annually

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: 02/01/2019
Date Data Arrived at EDR: 02/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

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.

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

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 05/20/2019
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: 09/14/2018
Date Data Arrived at EDR: 10/11/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 57
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
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: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

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: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: 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: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

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: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant 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: 03/07/2019
Next Scheduled EDR Contact: 06/17/2019
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: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

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: 01/02/2019
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/03/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

HIST FTTS: 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

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

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

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: 12/31/2018
Date Data Arrived at EDR: 02/11/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 38

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
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: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Biennially

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: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

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: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/22/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 03/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem

Date of Government Version: 10/27/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Reports: 12/08/2009
Number of Days to Update: 28

Source: N/A
Telephone: N/A
Last EDR Contact: 11/12/1996
Next Scheduled EDR Contact: N/A
Data Release Frequency: Annually

US AIRS MINOR: Aerometric Information Retrieval System Facility Subsystem

Date of Government Version: 10/27/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Reports: 12/08/2009
Number of Days to Update: 28

Source: N/A
Telephone: N/A
Last EDR Contact: 11/12/1996
Next Scheduled EDR Contact: N/A
Data Release Frequency: Annually

US MINES: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US MINES 2: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/21/2019
Next Scheduled EDR Contact: 06/24/2019
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: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

Other Ascertainable Records

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

CA 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: 12/20/2018
Date Data Arrived at EDR: 12/21/2018
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 69

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CA CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 08/28/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 63

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/26/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

CA CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

CA DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 27

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

CA 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: 12/13/2018
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 47

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Annually

CA DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/13/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 42

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

CA EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Varies

CA 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: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

CA Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/10/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

CA 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: 02/15/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/11/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

CA 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. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

CA ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

CA 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

CA HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

CA 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: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 56

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

CA MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

CA 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: 11/09/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

CA NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

CA PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

CA PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

CA 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: 09/19/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/19/2018
Number of Days to Update: 29
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

CA UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

CA UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

CA WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

CA 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: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

CA MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

CA PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

CA WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/18/2019
Number of Days to Update: 37

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

CA CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

CA CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

CA 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: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

CA NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

CA OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

CA PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

CA SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

CA WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

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
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto 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
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical 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
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

CA RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
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: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 01/24/2019
Date Data Arrived at EDR: 01/25/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 39

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 28

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
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: 10/16/2018
Date Data Arrived at EDR: 10/18/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 27

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
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: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/12/2019
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

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: N/A
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
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: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
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: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 12/07/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/24/2019
Number of Days to Update: 44

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/27/2018
Next Scheduled EDR Contact: 04/15/2019
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: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
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: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 01/25/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 26
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/05/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 34
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 36
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
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: 11/07/2018
Date Data Arrived at EDR: 01/04/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 60
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
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: 11/07/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 67
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

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: 11/28/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 42
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 05/20/2019
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: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 03/06/2019
Next Scheduled EDR Contact: 05/06/2019
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: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
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: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
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: 12/03/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/23/2019
Number of Days to Update: 36

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 06/24/2019
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: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
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: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
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: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 10
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19
Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
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: 01/08/2019
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 55
Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33
Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 12/13/2018
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59
Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 05/06/2019
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: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 35

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
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: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
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: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
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: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 42
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
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: 11/26/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 22
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
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.

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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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 was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

STREET AND ADDRESS INFORMATION

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Appendix E HISTORICAL RECORDS

Aratina Solar Farm
Kern County
Boron, CA 93516

Inquiry Number: 5567832.5
February 22, 2019

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

02/22/19

Site Name:

Aratina Solar Farm
Kern County
Boron, CA 93516
EDR Inquiry # 5567832.5

Client Name:

Stantec
735 E. Carnegie Drive, Suite 280
SAN BERNARDINO, CA 92408
Contact: Dion Monge

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Stantec were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA
Project: NA

Coordinates:

Latitude:	34.993179 34° 59' 35" North
Longitude:	-117.6777 -117° 40' 40" West
UTM Zone:	Zone 11 North
UTM X Meters:	438153.12
UTM Y Meters:	3872496.41
Elevation:	2463.00' above sea level

Maps Provided:

2012
1973
1954, 1956
1947
1942, 1943
1942
1937

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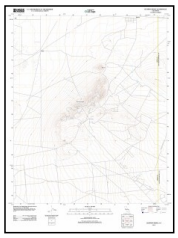
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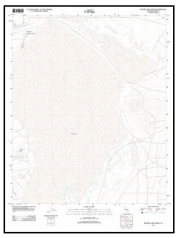
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Leuhman Ridge
2012
7.5-minute, 24000



Rogers Lake North
2012
7.5-minute, 24000



North Edwards
2012
7.5-minute, 24000



Boron
2012
7.5-minute, 24000



Kramer Junction
2012
7.5-minute, 24000



Saddleback Mountain
2012
7.5-minute, 24000

1973 Source Sheets



Leuhman Ridge
1973
7.5-minute, 24000
Aerial Photo Revised 1972



Boron
1973
7.5-minute, 24000
Aerial Photo Revised 1972



Kramer Junction
1973
7.5-minute, 24000
Aerial Photo Revised 1972



Saddleback Mtn
1973
7.5-minute, 24000
Aerial Photo Revised 1972



North Edwards
1973
7.5-minute, 24000
Aerial Photo Revised 1972



Rogers Lake North
1973
7.5-minute, 24000
Aerial Photo Revised 1972

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1954, 1956 Source Sheets



Boron
1954
15-minute, 62500
Aerial Photo Revised 1952



Castle Butte
1956
15-minute, 62500
Aerial Photo Revised 1943



Kramer
1956
15-minute, 62500
Aerial Photo Revised 1953



Rogers Lake
1956
15-minute, 62500
Aerial Photo Revised 1953

1947 Source Sheets



Kramer
1947
7.5-minute, 24000
Aerial Photo Revised 1946



Johannesburg SW
1947
7.5-minute, 24000
Aerial Photo Revised 1946



Rich
1947
7.5-minute, 24000
Aerial Photo Revised 1946



Castle Butte SE
1947
7.5-minute, 24000
Aerial Photo Revised 1946



Muroc
1947
7.5-minute, 24000
Aerial Photo Revised 1946

1942, 1943 Source Sheets



Rogers Lake
1942
15-minute, 62500



Kramer
1942
15-minute, 62500



Castle Butte
1943
15-minute, 62500
Aerial Photo Revised 1943

1937 Source Sheets



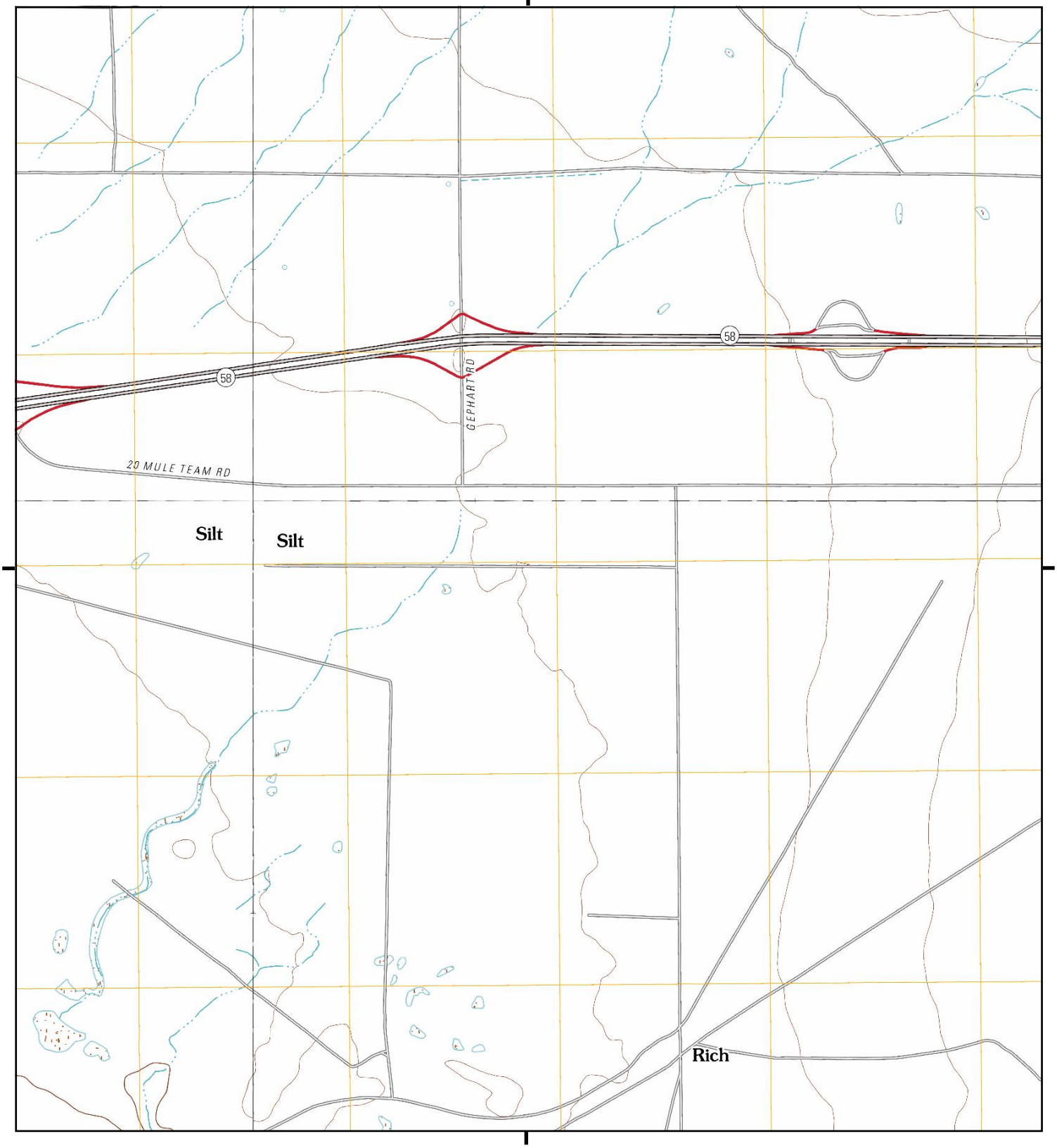
Kramer
1937
15-minute, 48000



Rogers Lake
1937
15-minute, 48000

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

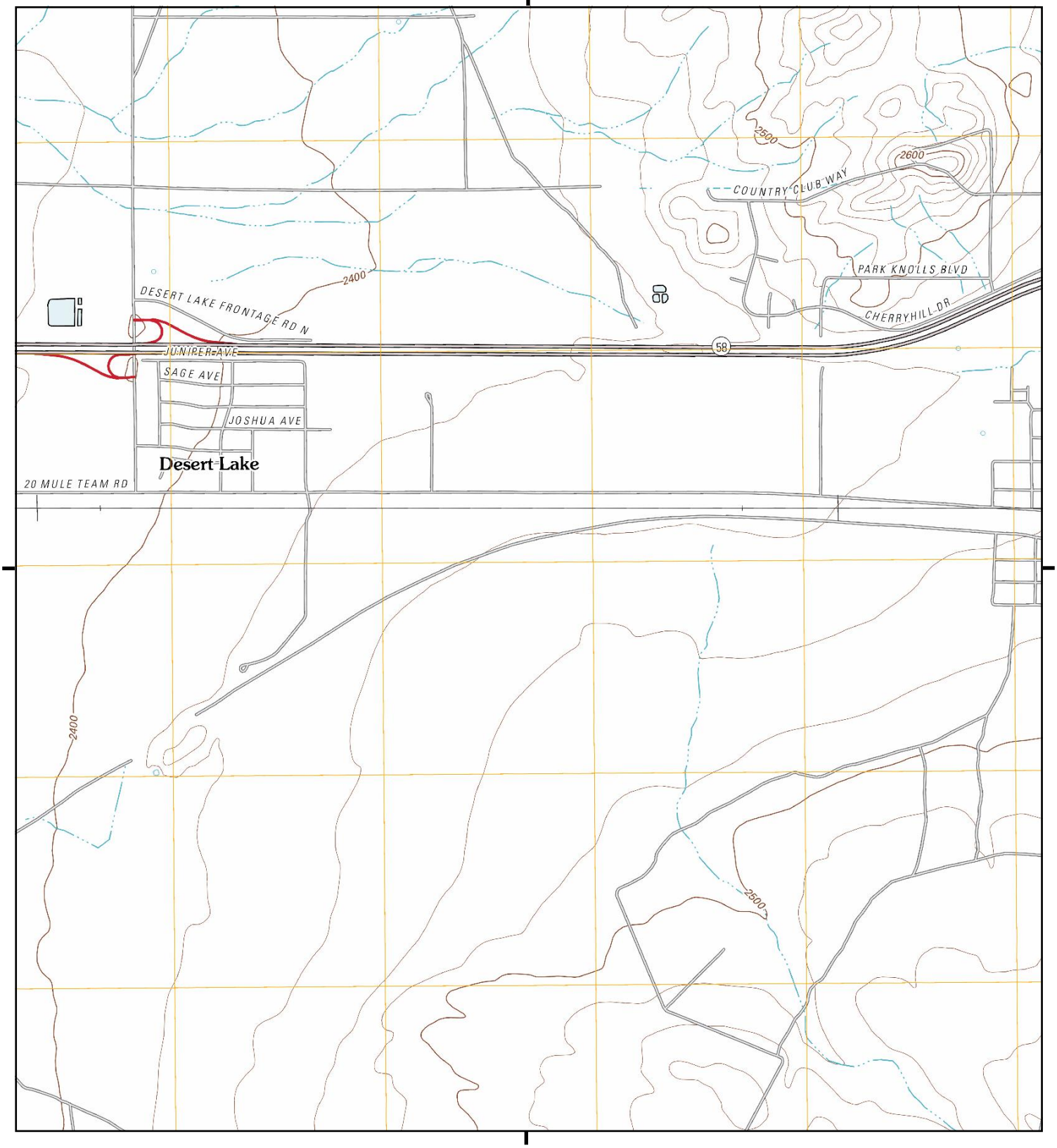
TP, Leuhman Ridge, 2012, 7.5-minute
N, Boron, 2012, 7.5-minute
SW, Rogers Lake North, 2012, 7.5-minute
NW, North Edwards, 2012, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

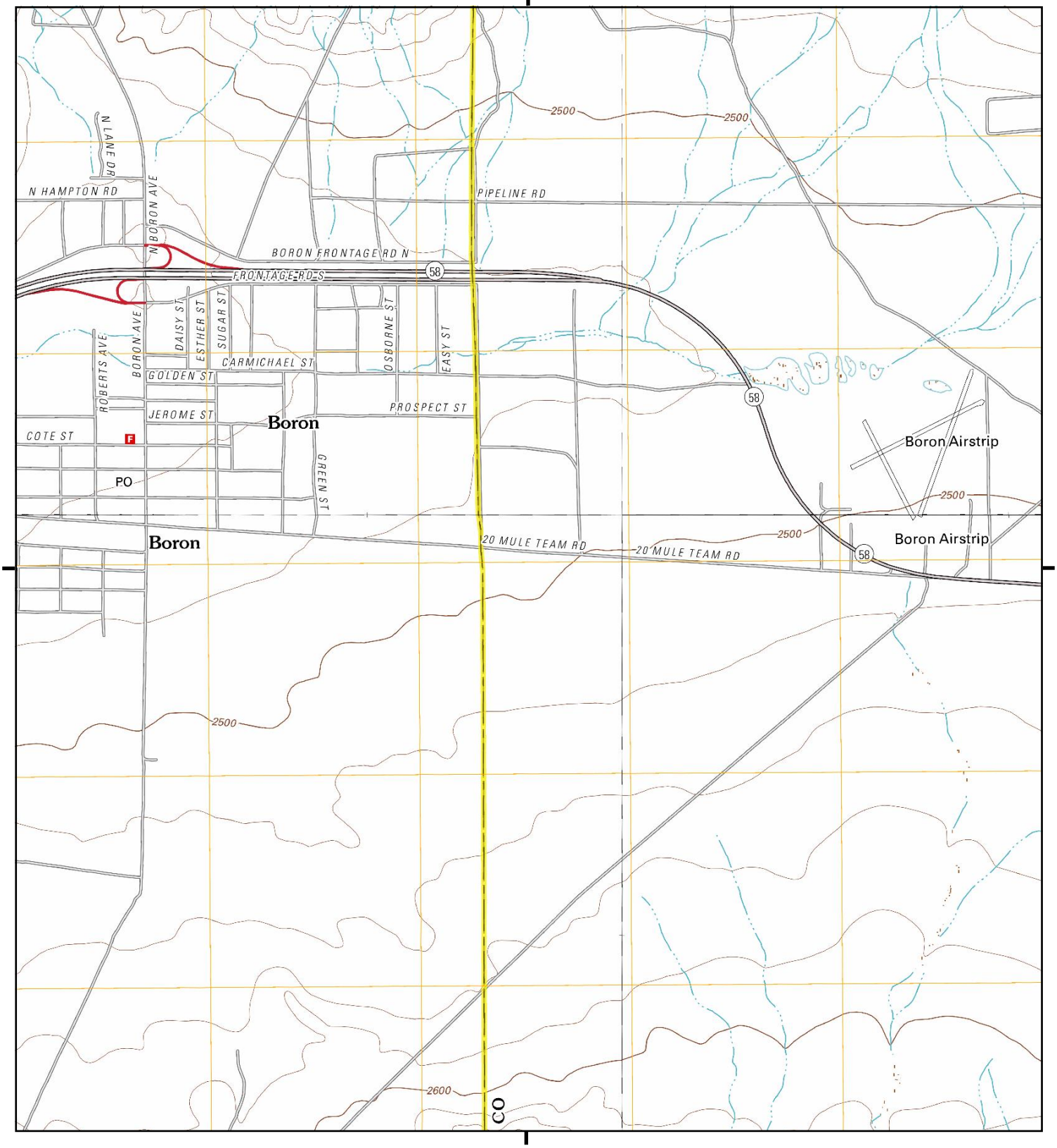
TP, Leuhman Ridge, 2012, 7.5-minute
N, Boron, 2012, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

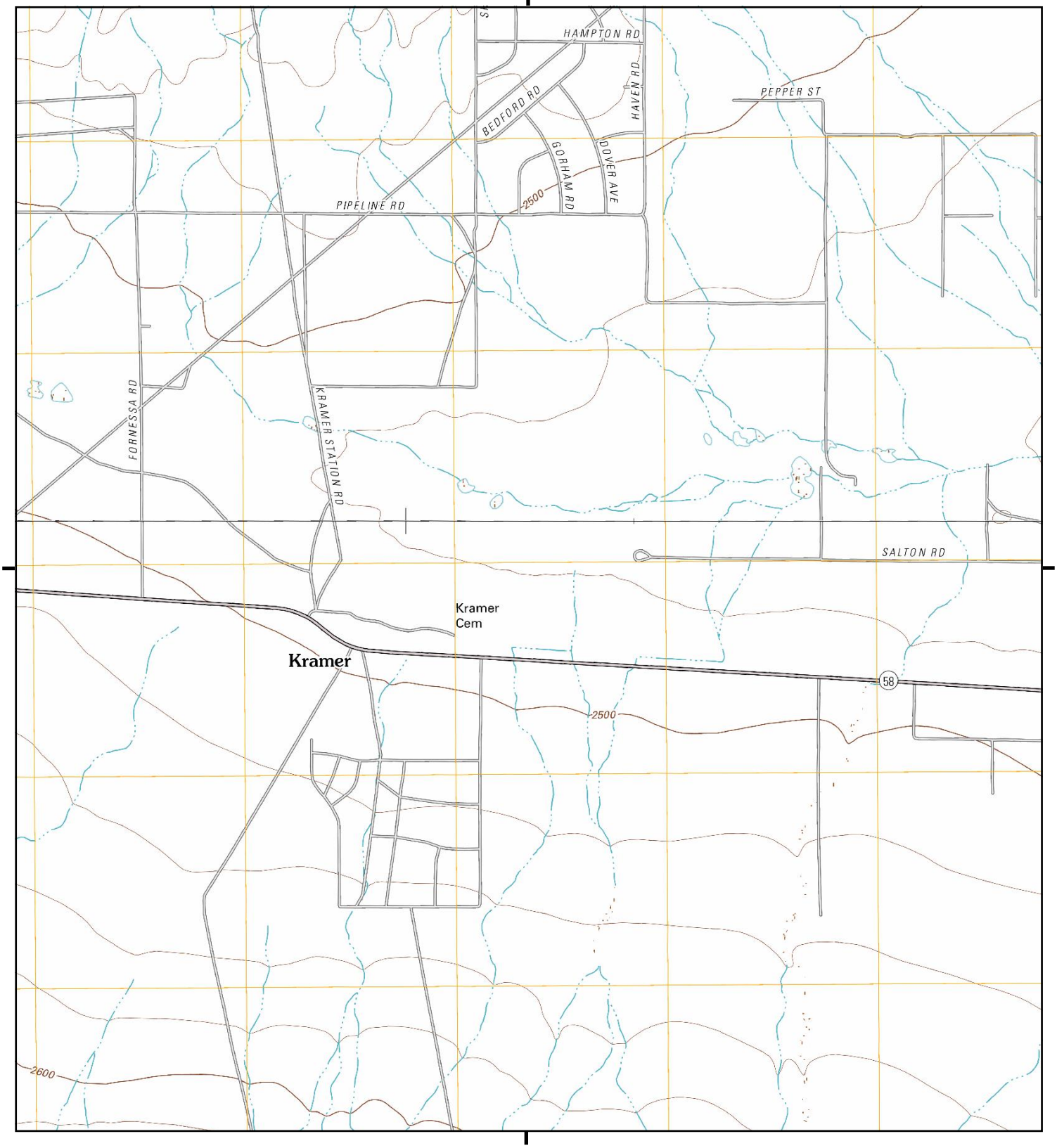
TP, Leuhman Ridge, 2012, 7.5-minute
N, Boron, 2012, 7.5-minute
NE, Saddleback Mountain, 2012, 7.5-minute
SE, Kramer Junction, 2012, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

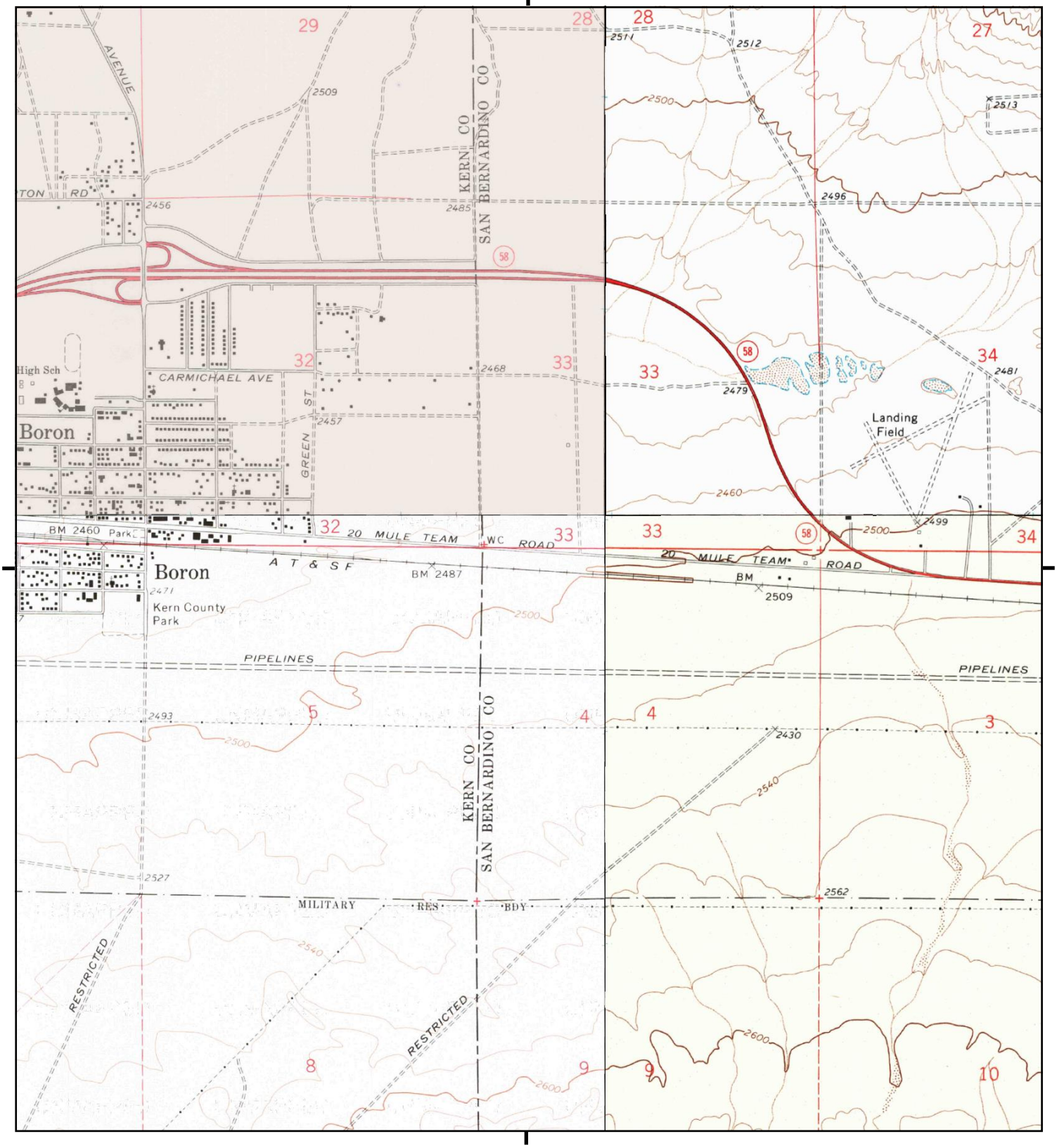
TP, Kramer Junction, 2012, 7.5-minute
N, Saddleback Mountain, 2012, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N

Historical Topo Map

1973



This report includes information from the following map sheet(s).

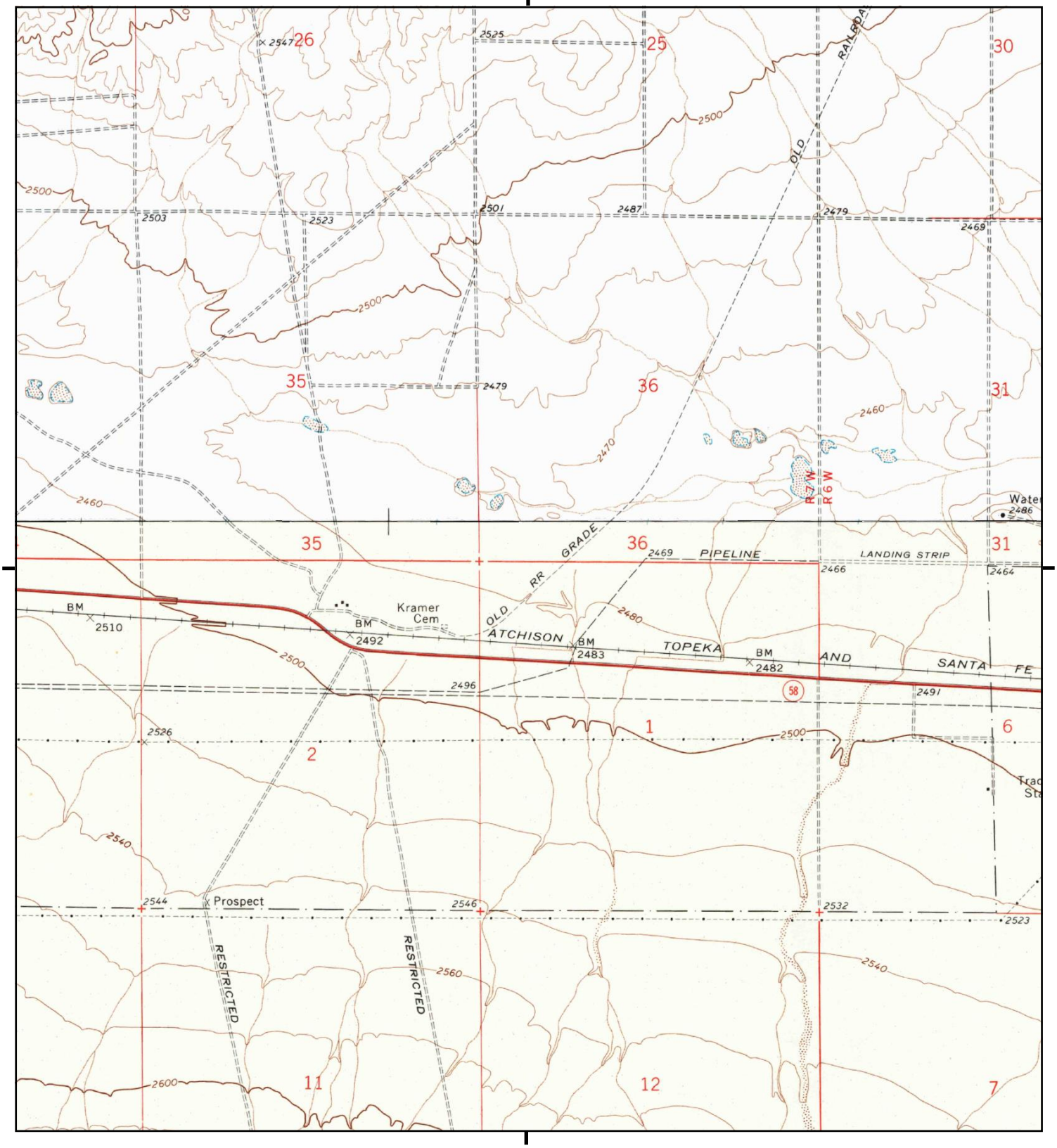
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Leuhman Ridge, 1973, 7.5-minute
N, Saddleback Mtn, 1973, 7.5-minute
SE, Kramer Junction, 1973, 7.5-minute
NW, Boron, 1973, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

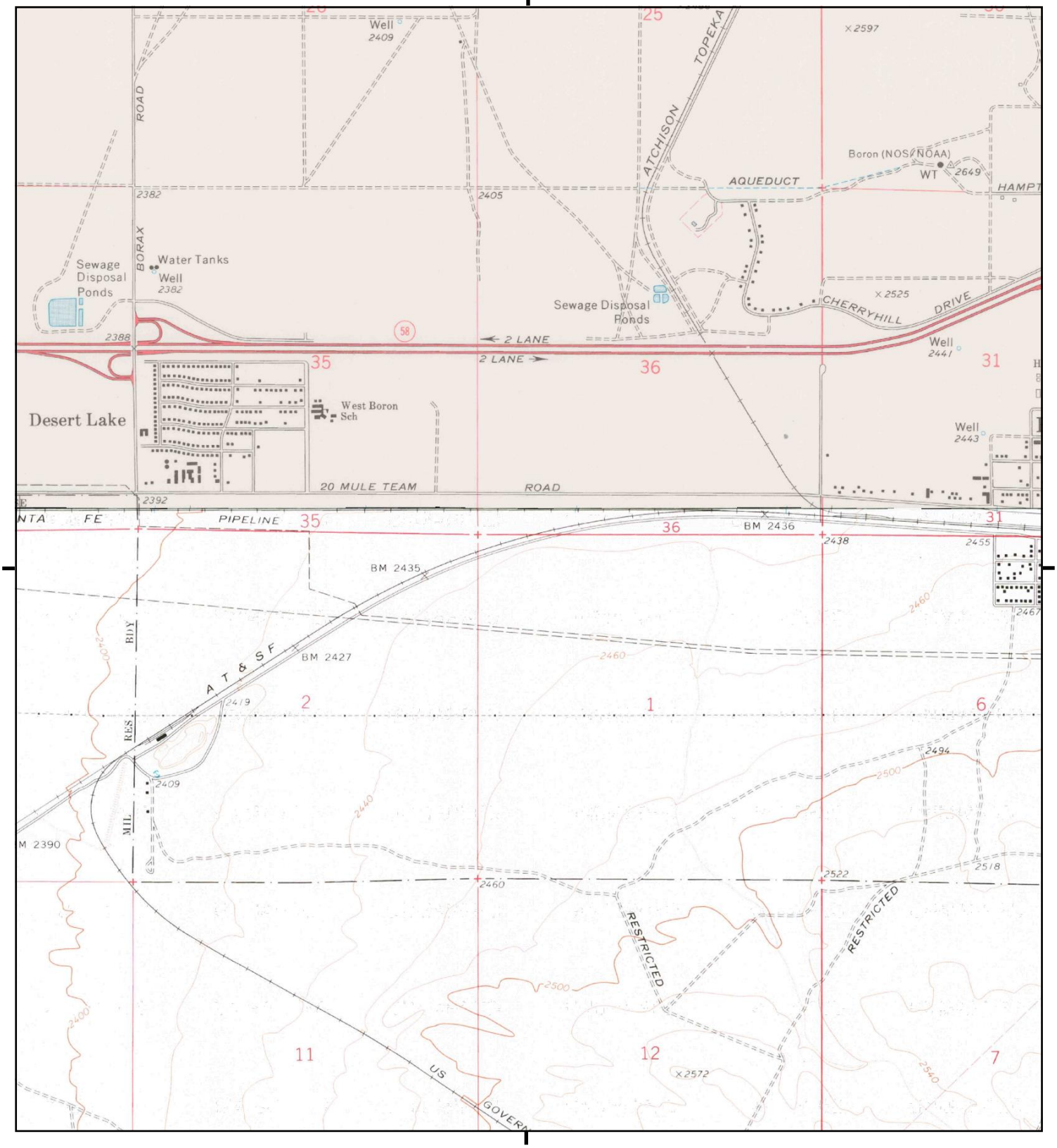
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Kramer Junction, 1973, 7.5-minute
N, Saddleback Mtn, 1973, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

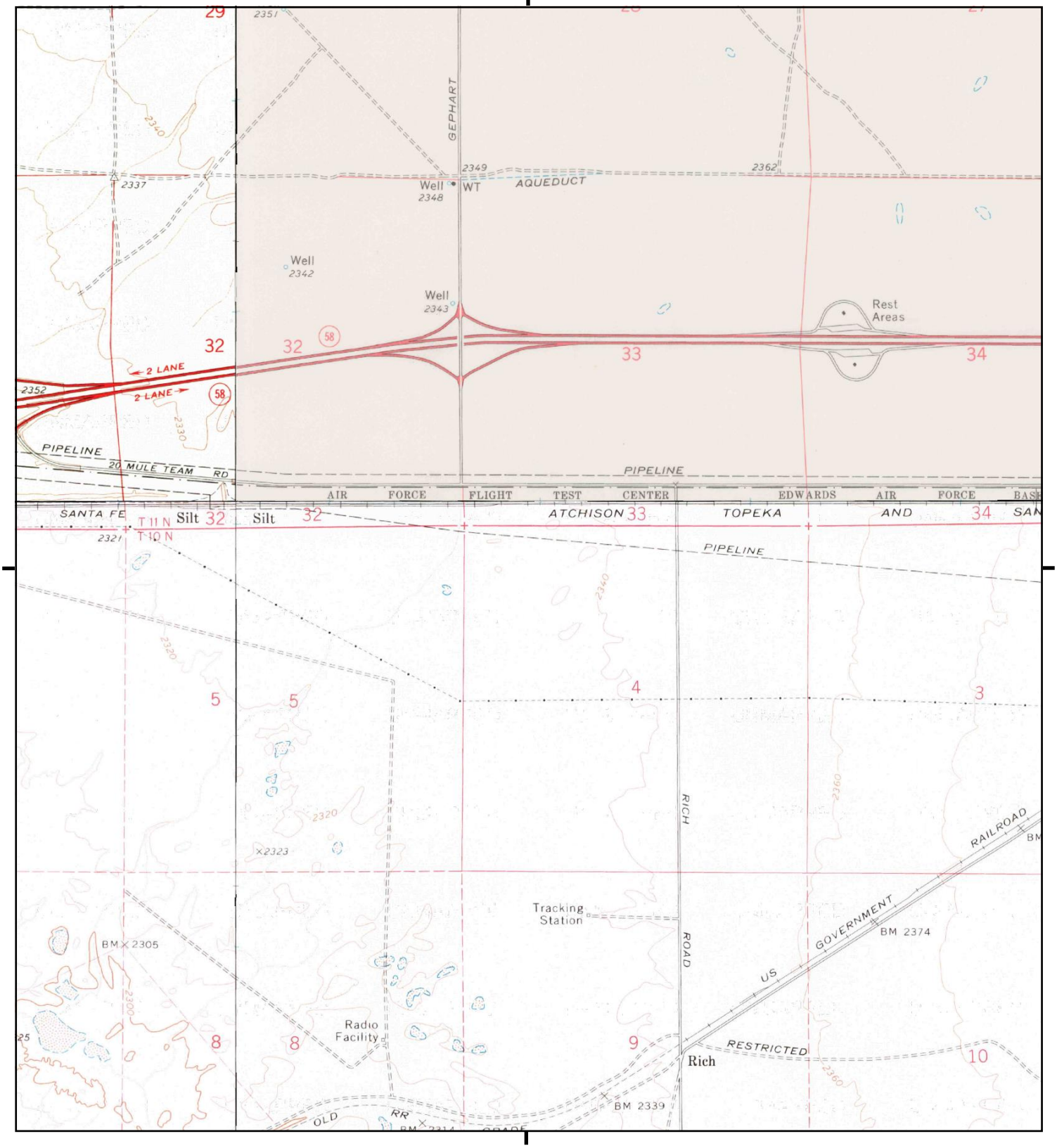
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Leuhman Ridge, 1973, 7.5-minute
N, Boron, 1973, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

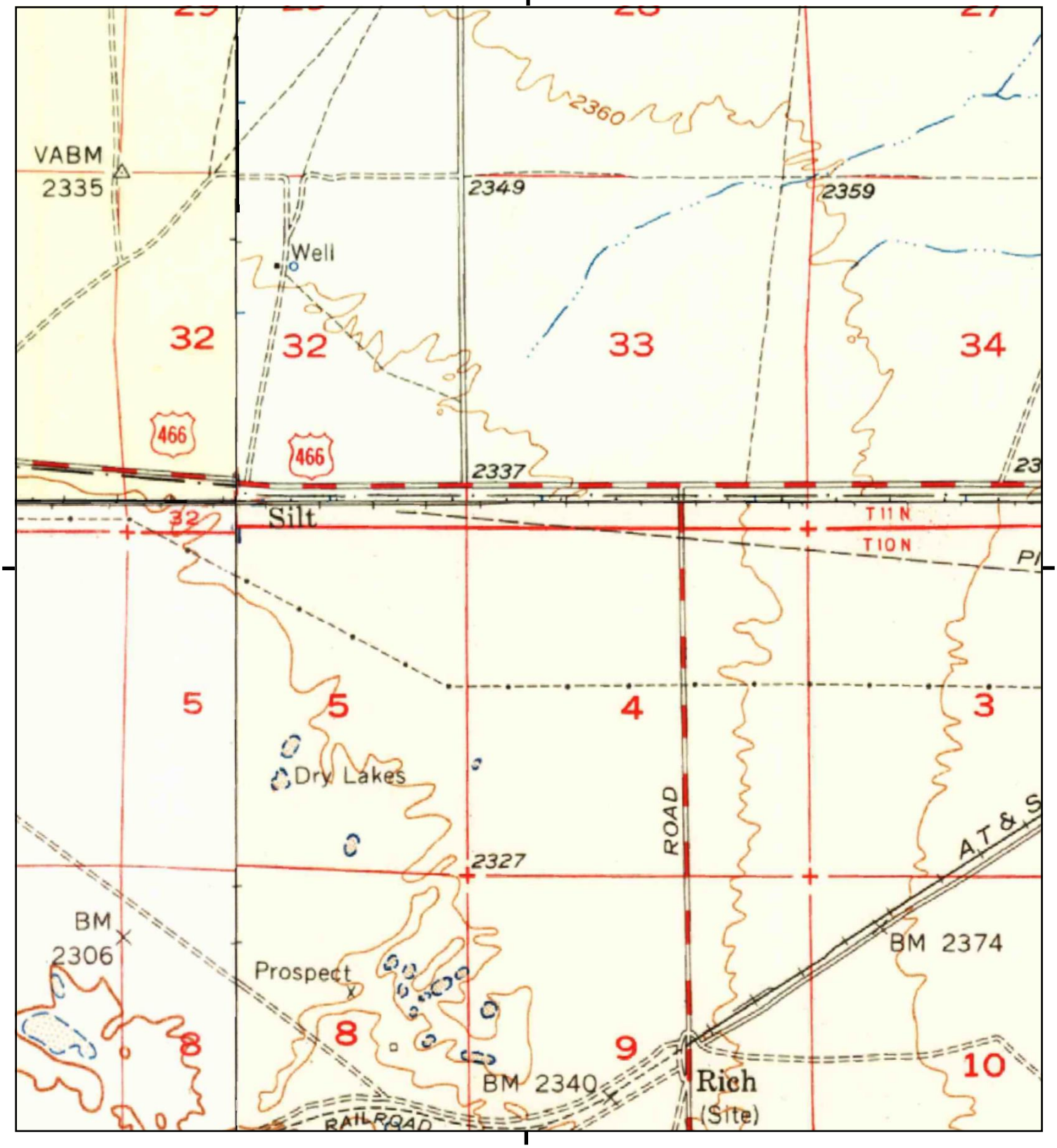
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Leuhman Ridge, 1973, 7.5-minute
NE, Boron, 1973, 7.5-minute
S, Rogers Lake North, 1973, 7.5-minute
NW, North Edwards, 1973, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

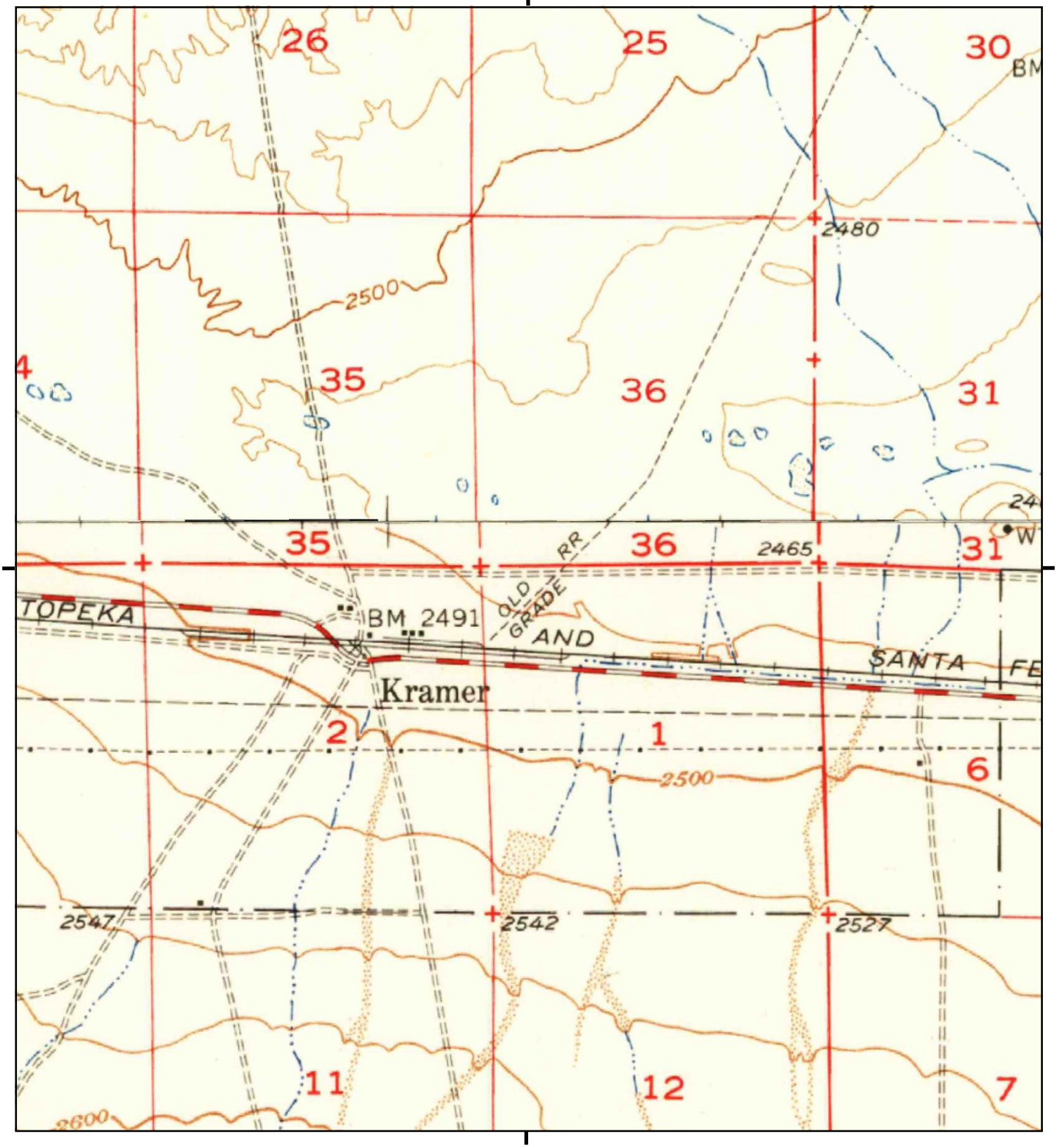
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Kramer, 1956, 15-minute
NE, Boron, 1954, 15-minute
S, Rogers Lake, 1956, 15-minute
NW, Castle Butte, 1956, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

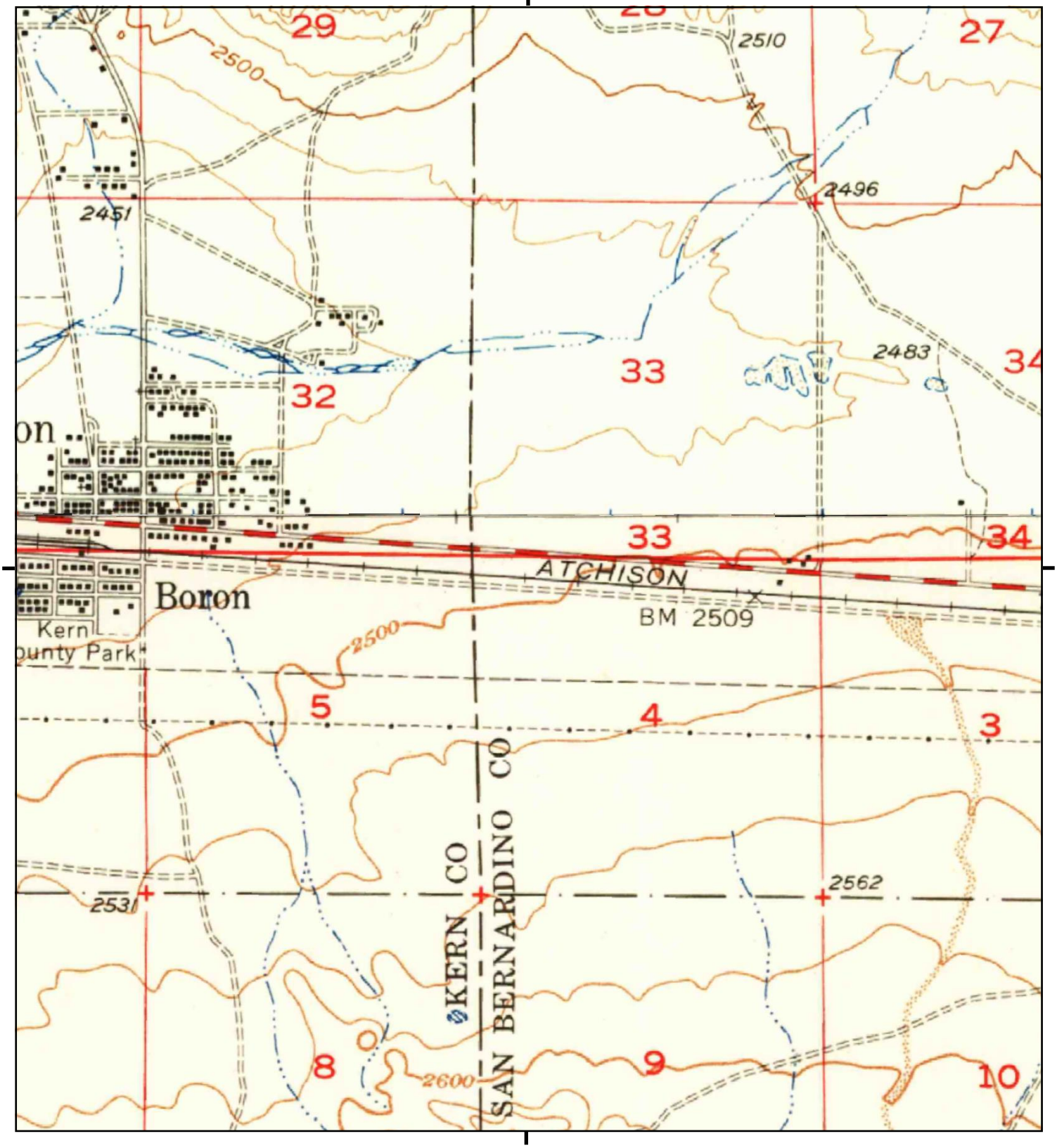
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Kramer, 1956, 15-minute
N, Boron, 1954, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

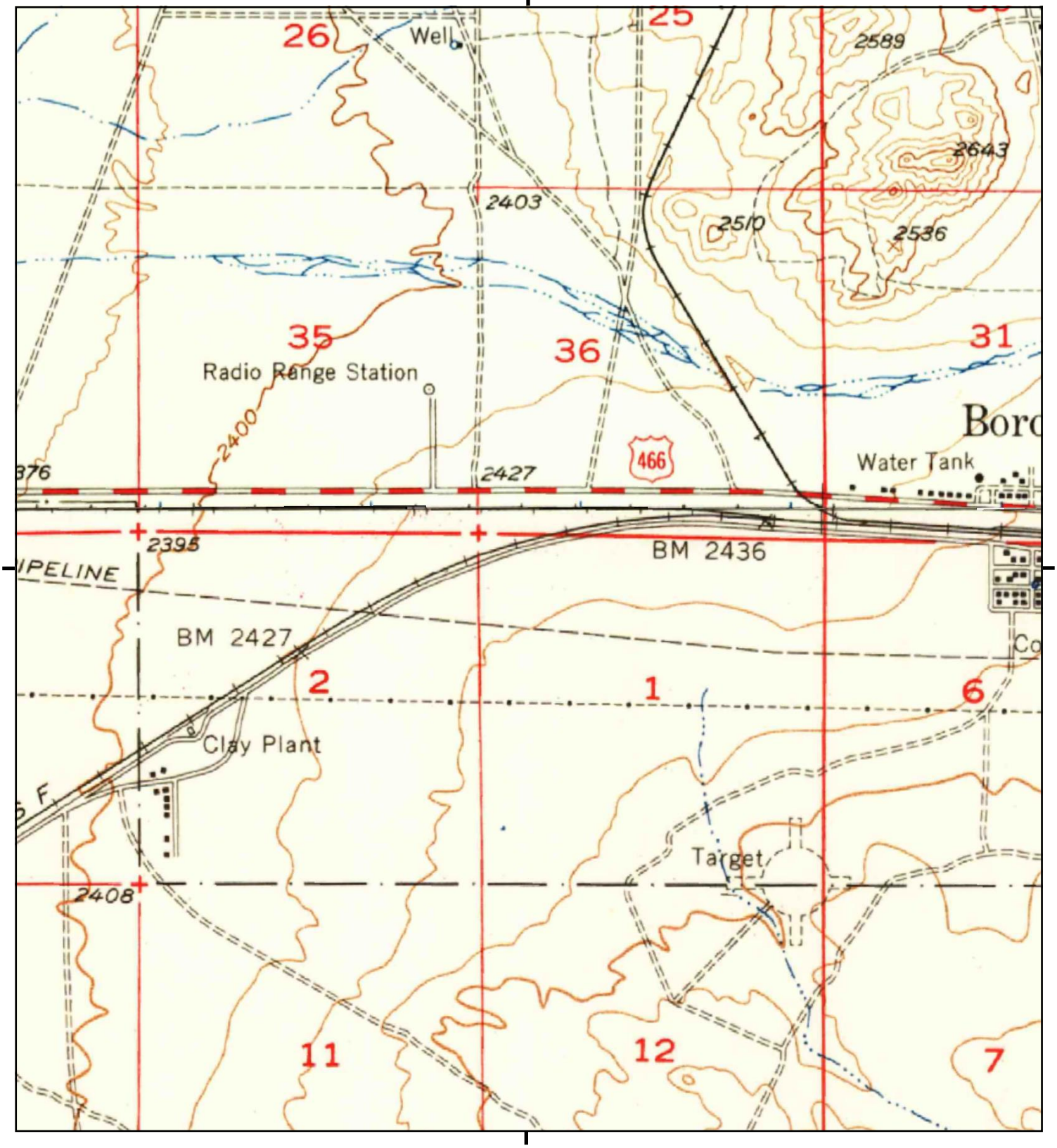
TP, Kramer, 1956, 15-minute
N, Boron, 1954, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N

Historical Topo Map

1954, 1956



This report includes information from the following map sheet(s).

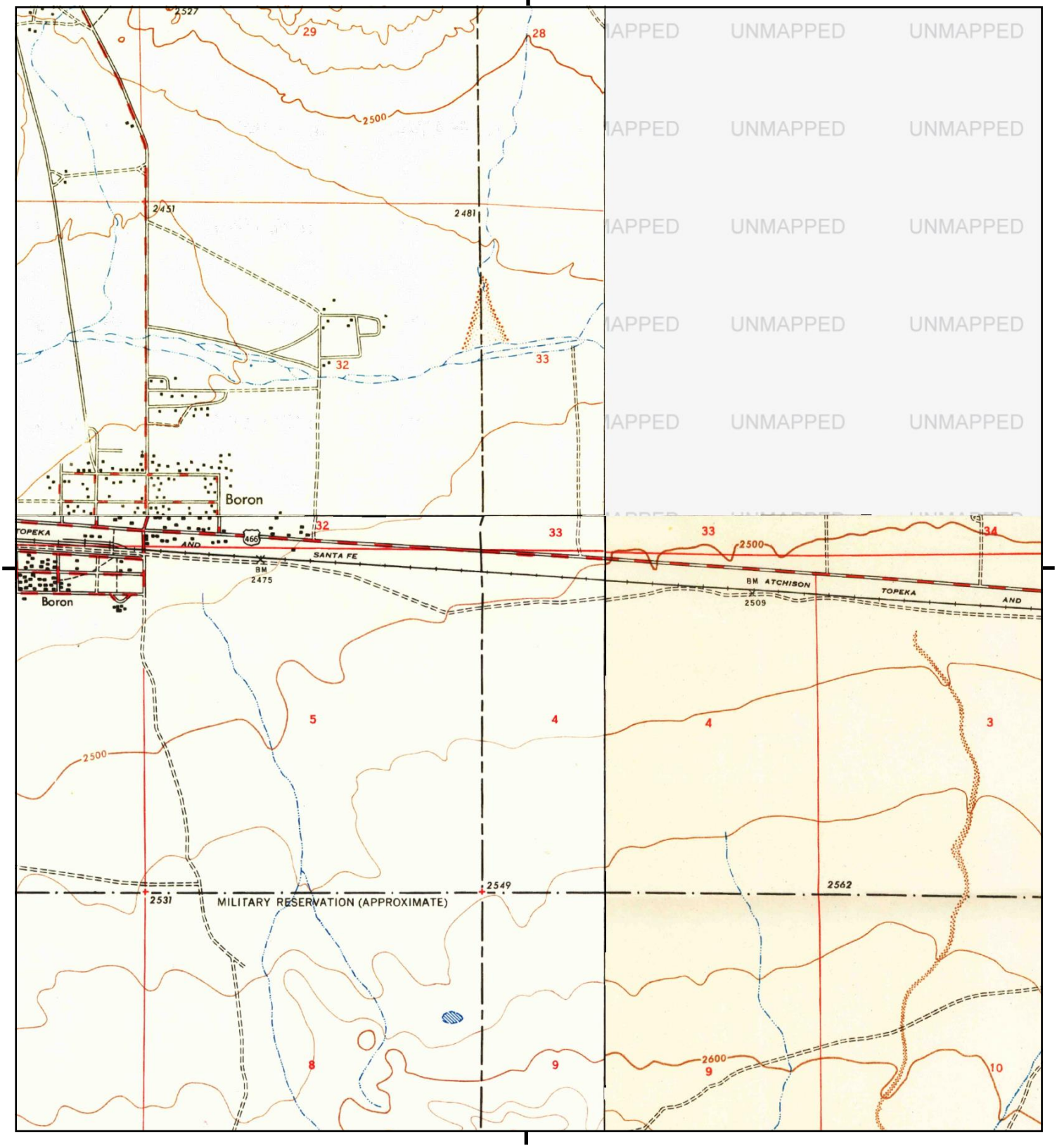
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Kramer, 1956, 15-minute
N, Boron, 1954, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

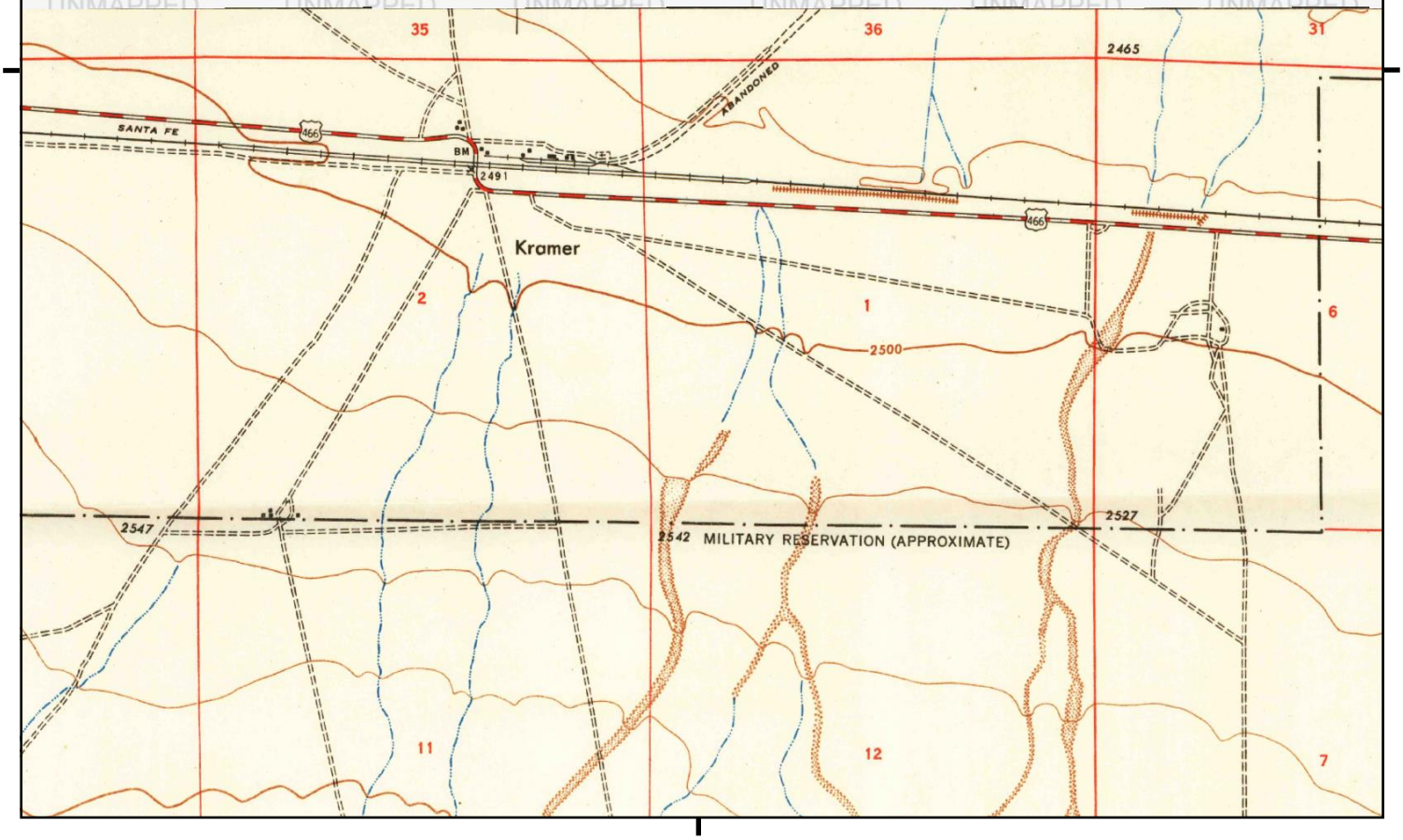
NW N NE
W E
SW S SE

TP, Rich, 1947, 7.5-minute
SE, Kramer, 1947, 7.5-minute
NW, Johannesburg SW, 1947, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N

UNMAPPED



This report includes information from the following map sheet(s).

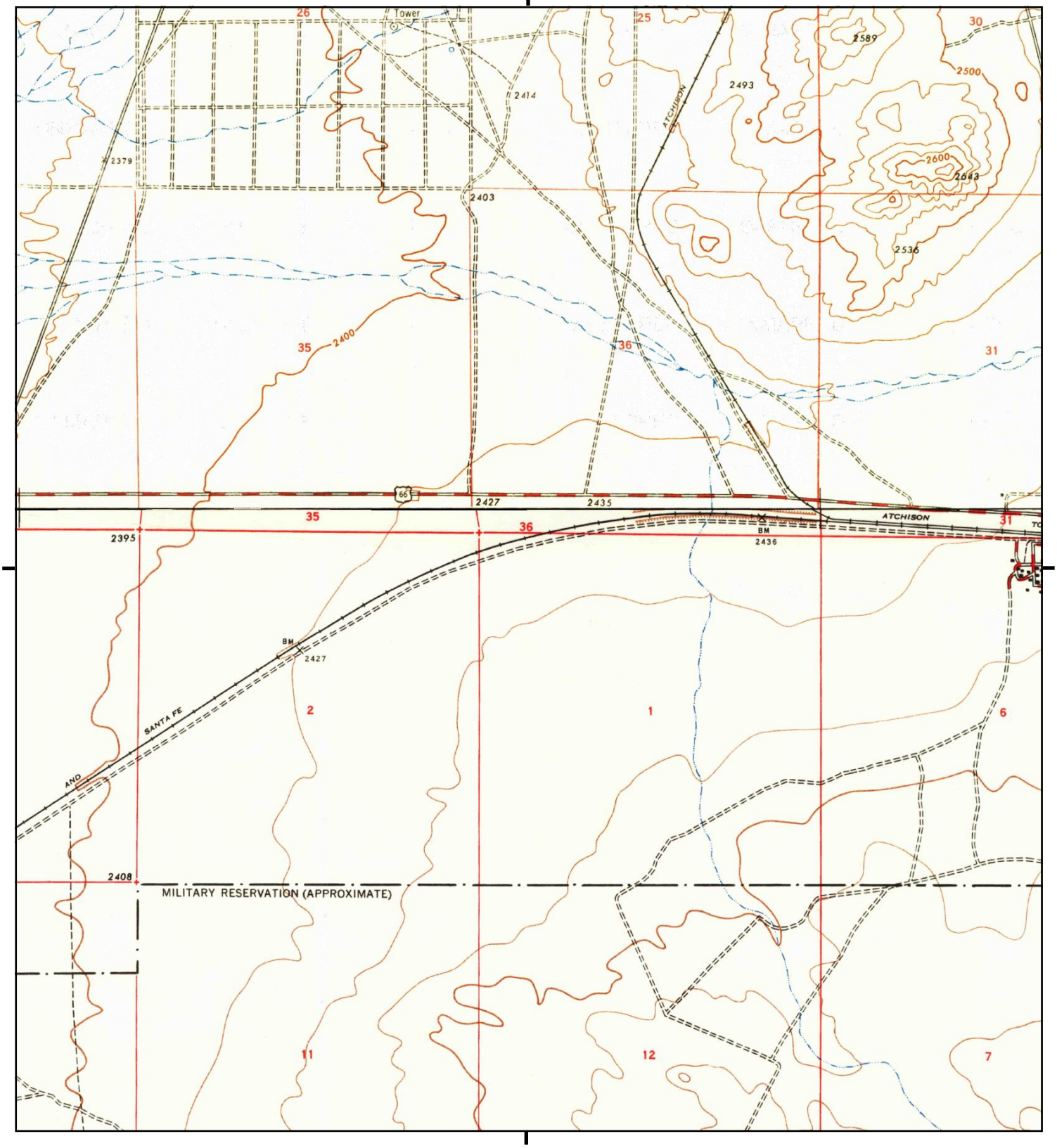
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Kramer, 1947, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

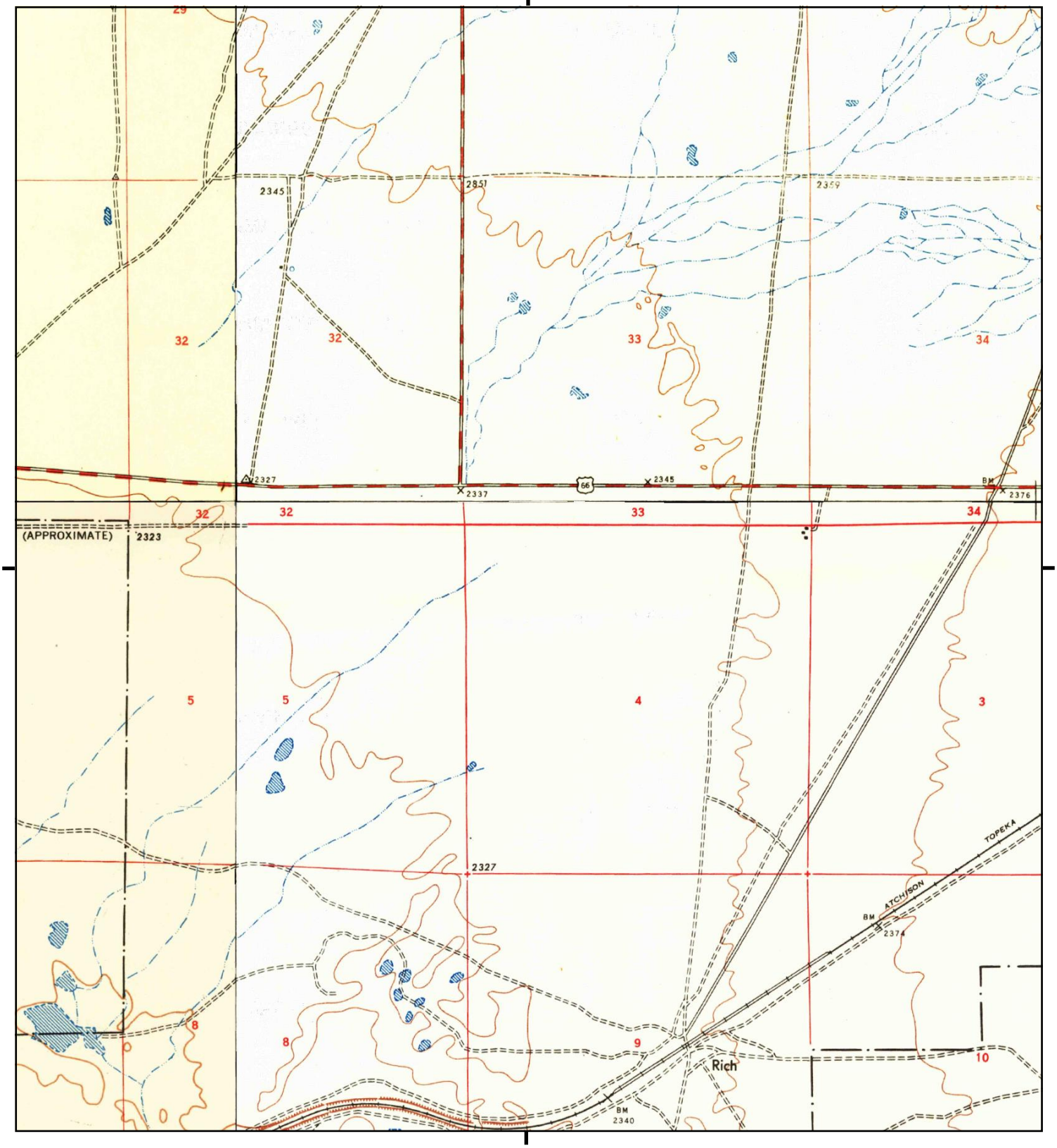
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Rich, 1947, 7.5-minute
N, Johannesburg SW, 1947, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

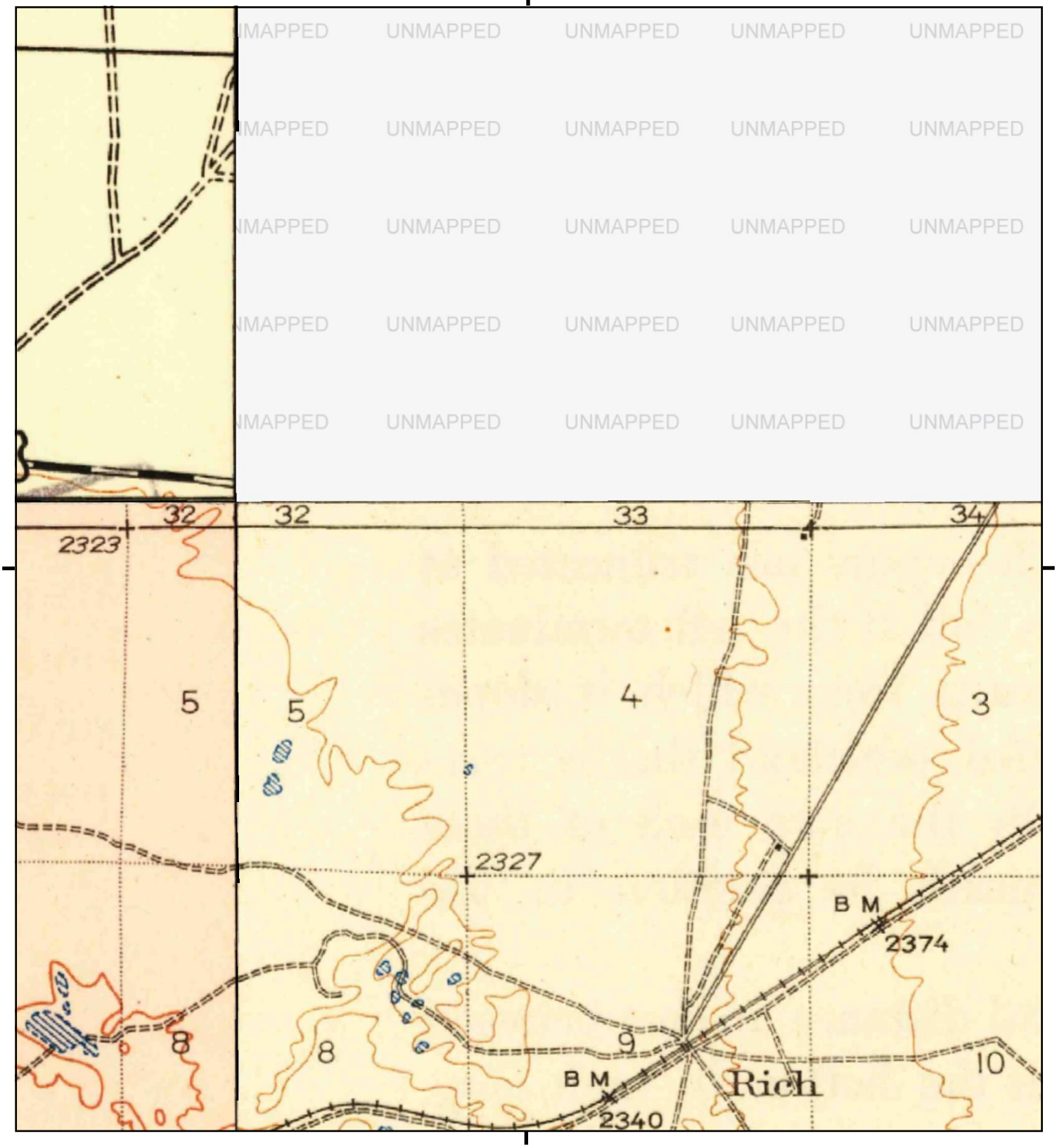
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

NE, Johannesburg SW, 1947, 7.5-minute
SW, Muroc, 1947, 7.5-minute
NW, Castle Butte SE, 1947, 7.5-minute
T, Rich, 1947, 7.5-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

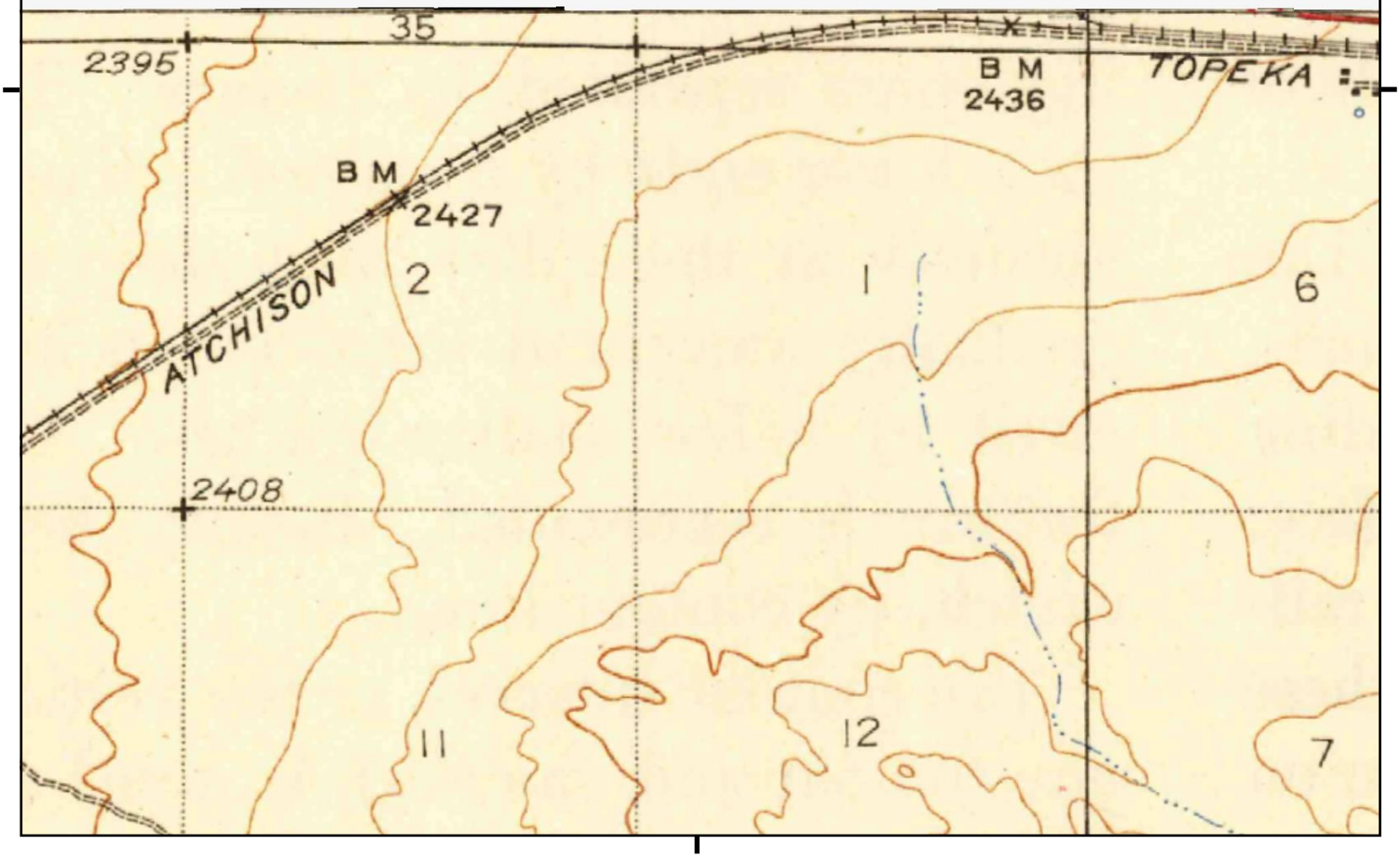
NW N NE
W E
SW S SE

TP, Kramer, 1942, 15-minute
SW, Rogers Lake, 1942, 15-minute
NW, Castle Butte, 1943, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N

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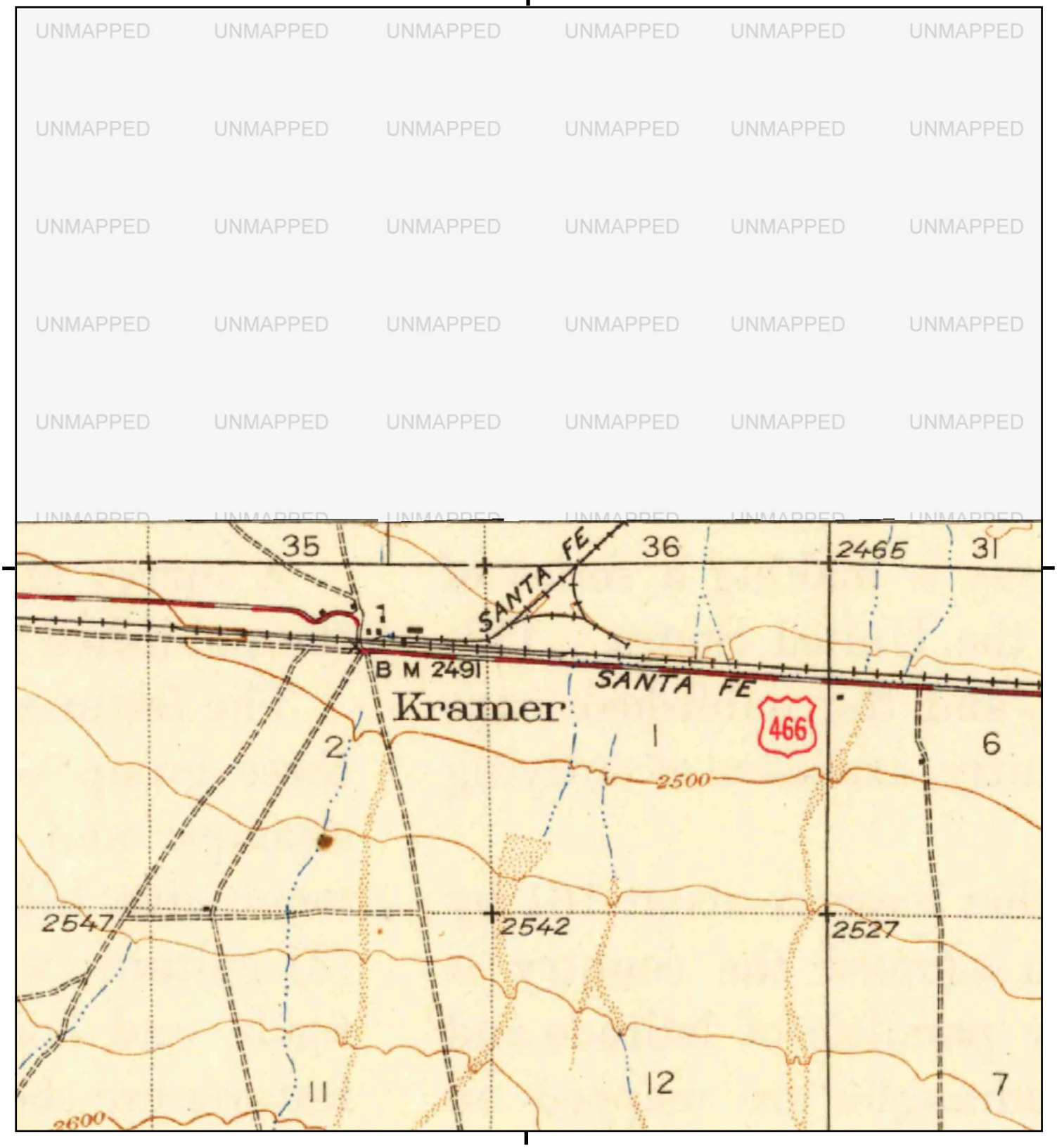
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Kramer, 1942, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

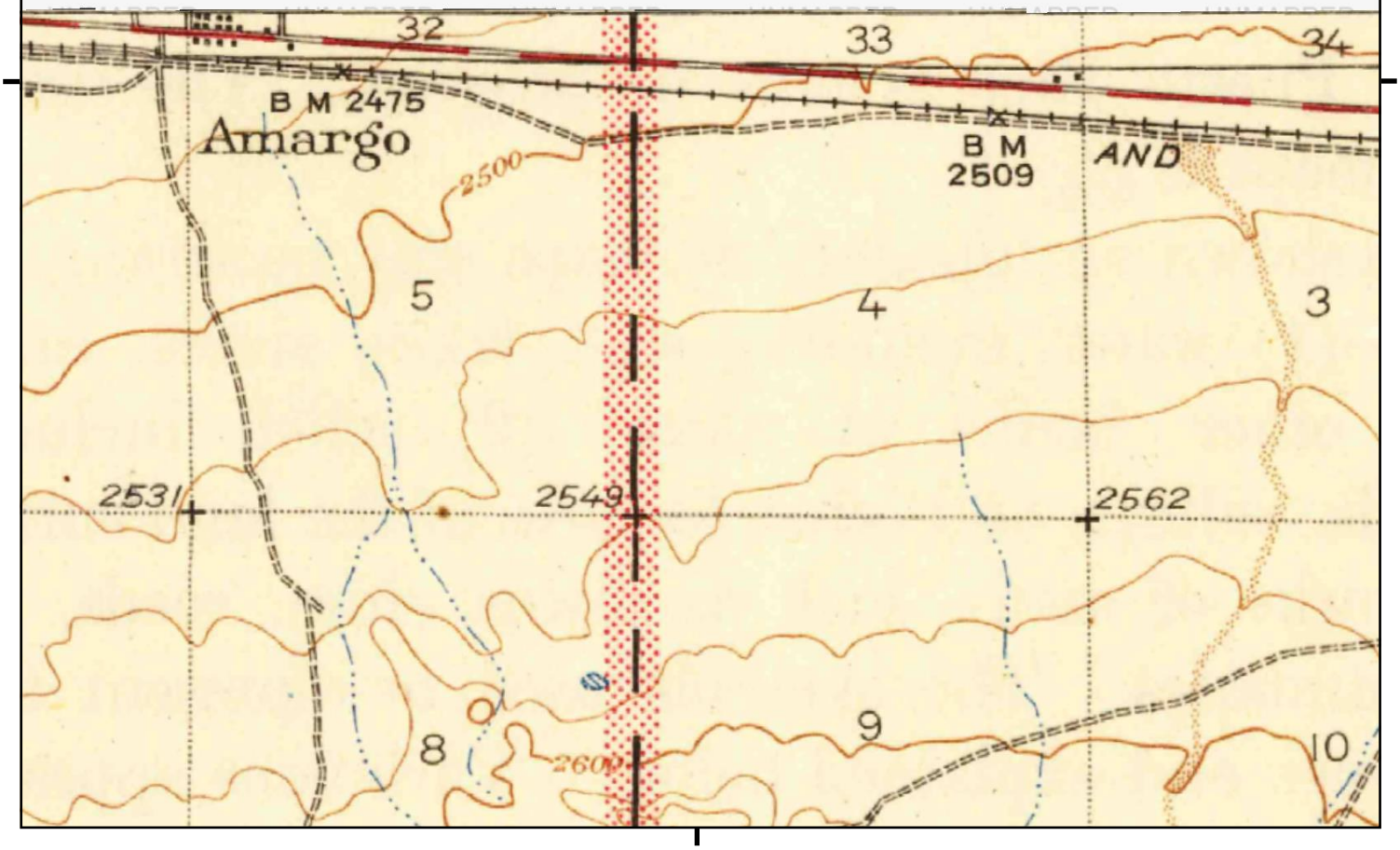
NW N NE
W E
SW S SE

TP, Kramer, 1942, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N

UNMAPPED



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

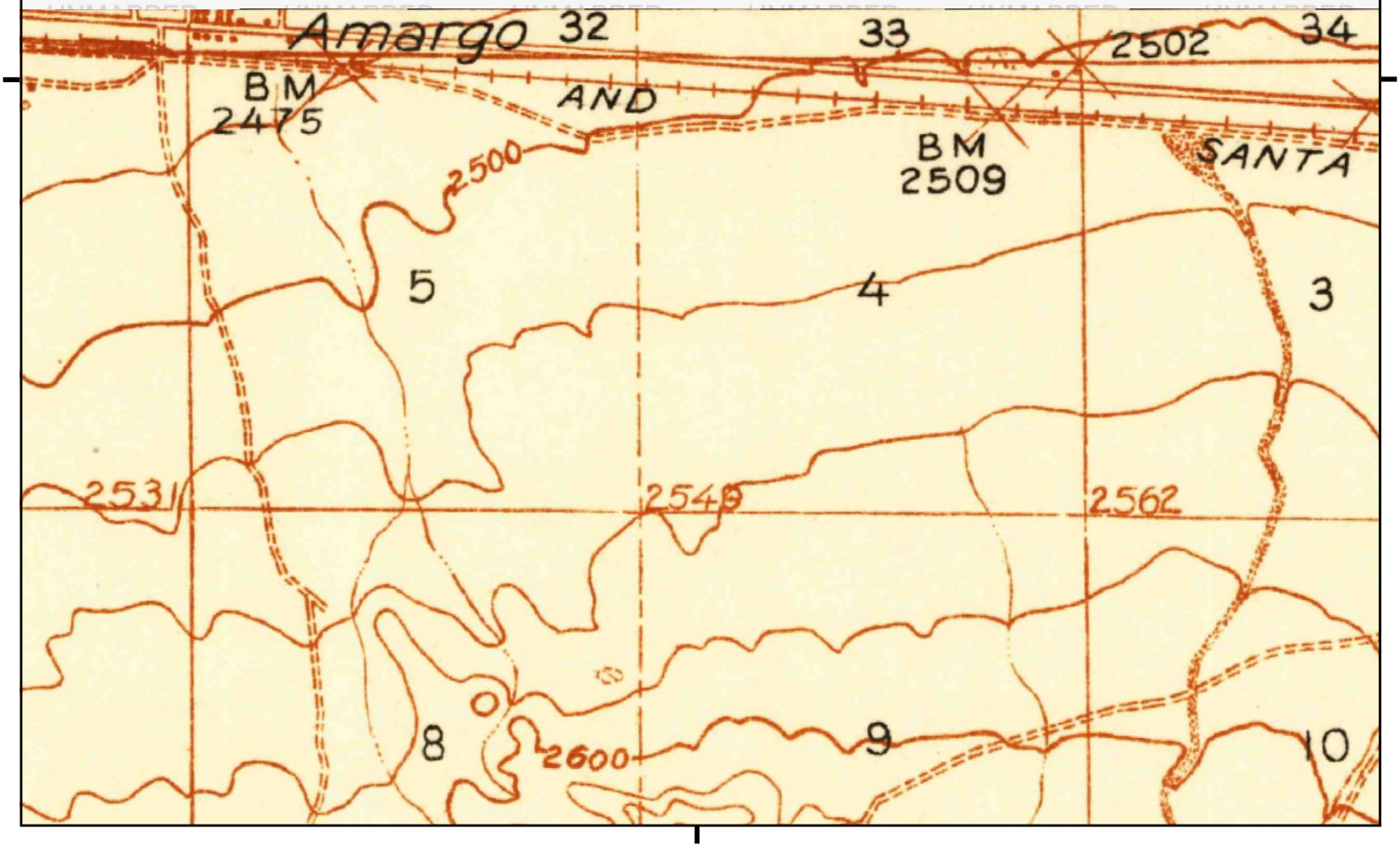
NW N NE
W E
SW S SE

TP, Kramer, 1942, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N

UNMAPPED



This report includes information from the following map sheet(s).

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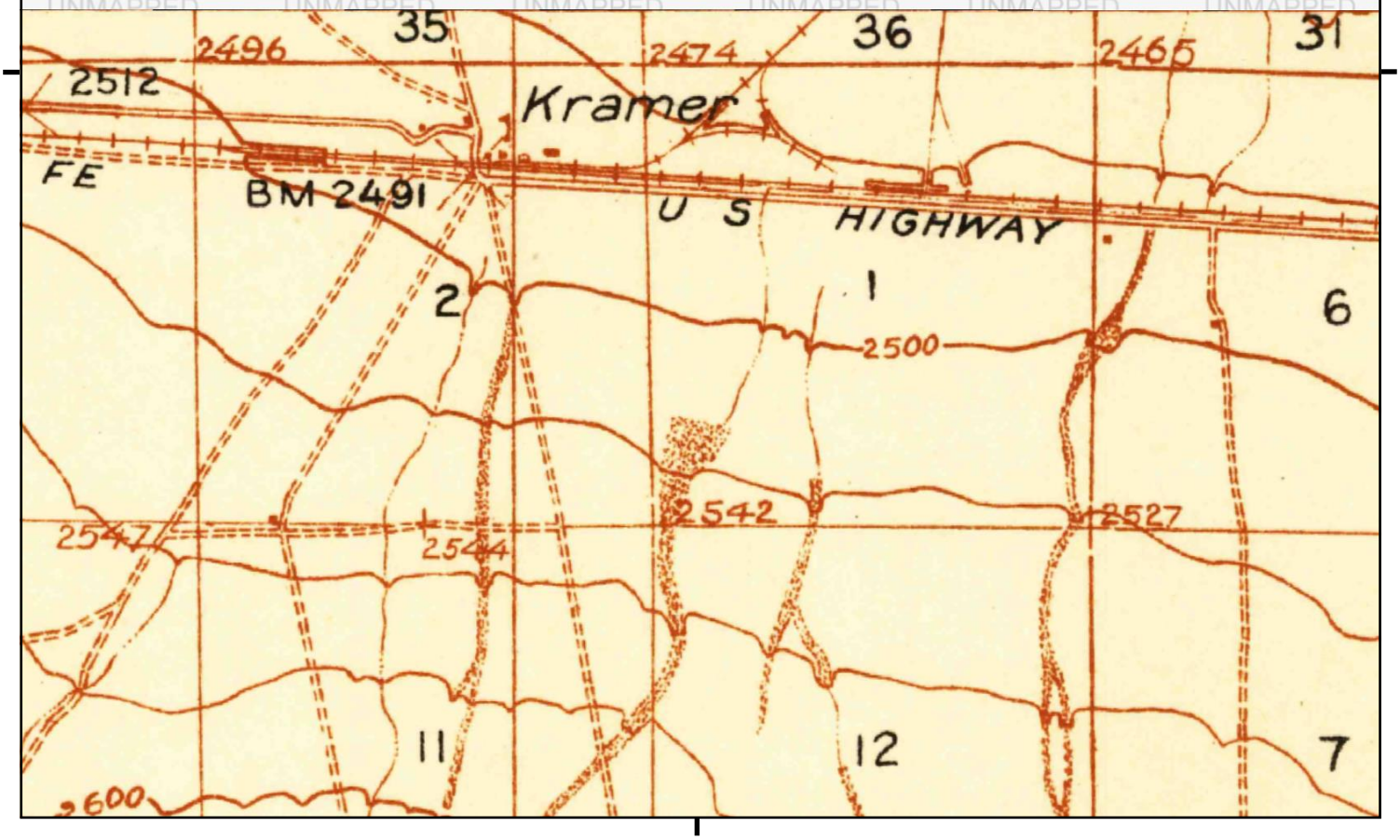
NW N NE
W E
SW S SE

TP, Kramer, 1937, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N

UNMAPPED



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

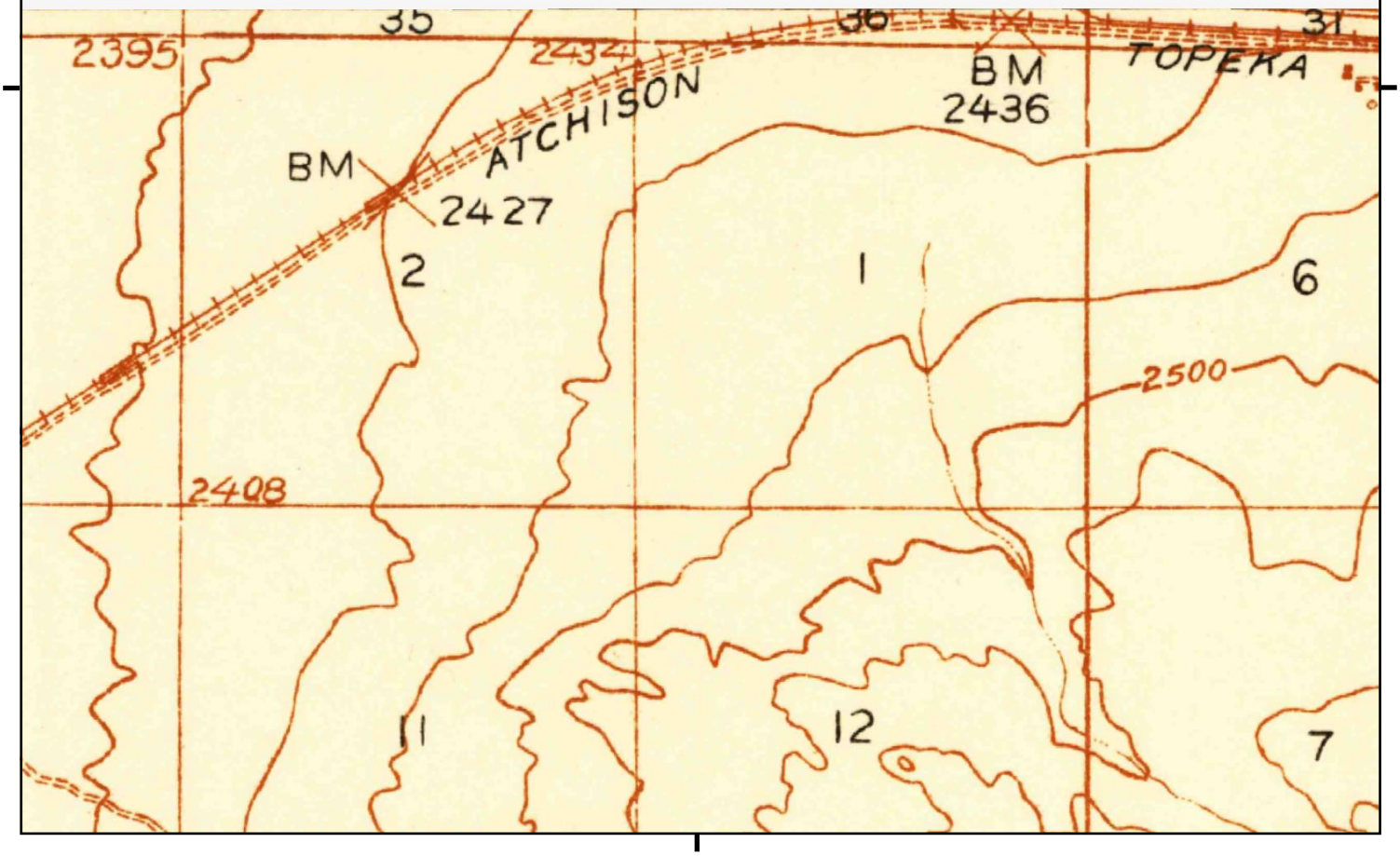
NW N NE
W E
SW S SE

TP, Kramer, 1937, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

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This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

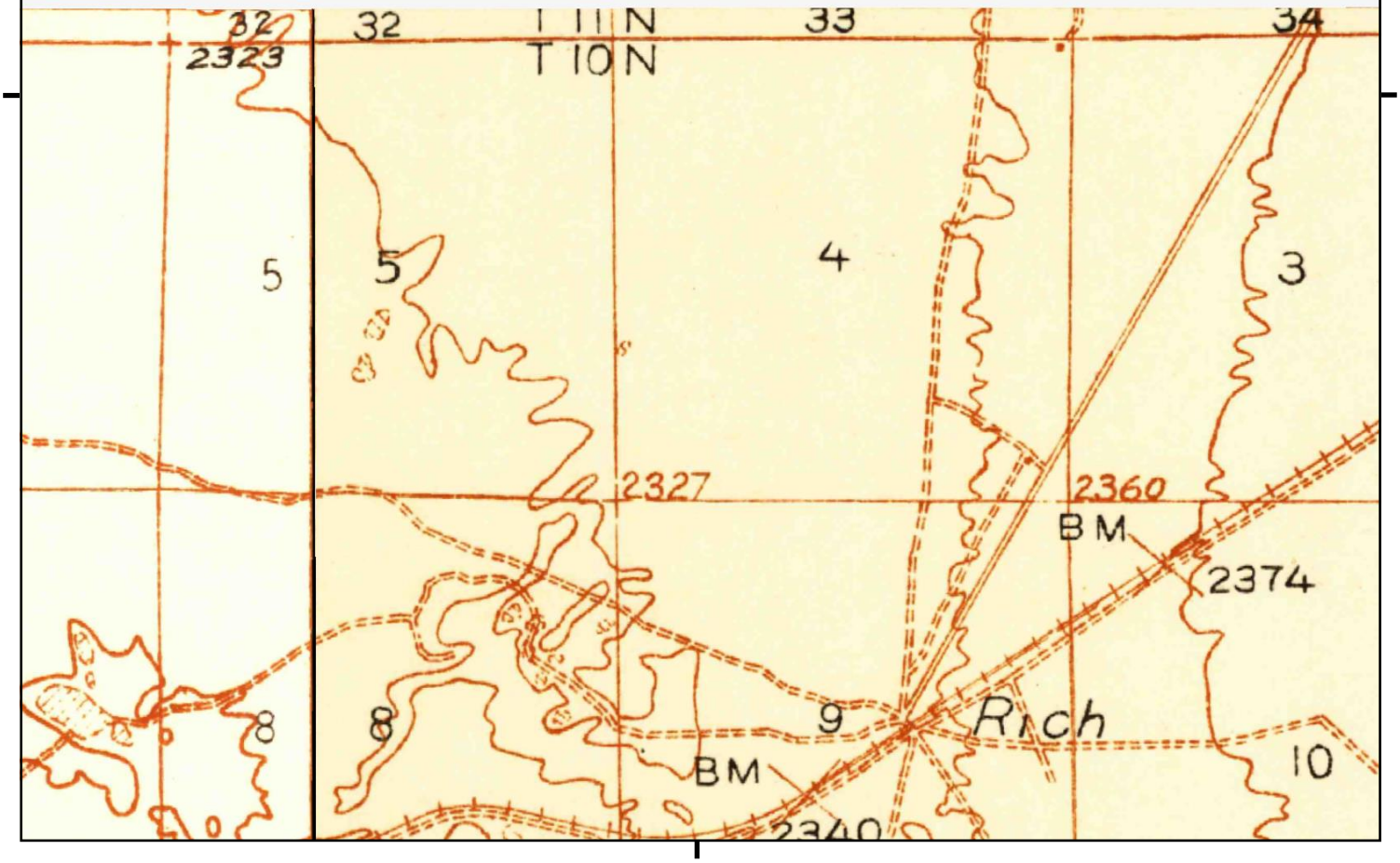
NW N NE
W E
SW S SE

TP, Kramer, 1937, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N

UNMAPPED



This report includes information from the following map sheet(s).

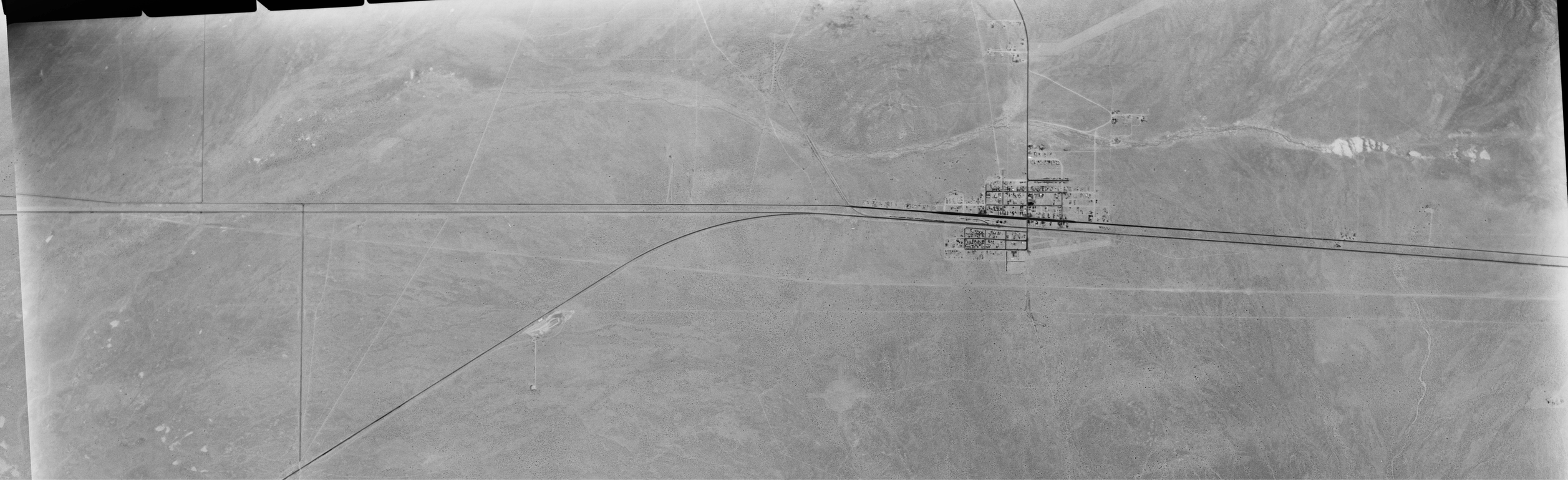
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Kramer, 1937, 15-minute
SW, Rogers Lake, 1937, 15-minute

SITE NAME: Aratina Solar Farm
ADDRESS: Kern County
Boron, CA 93516
CLIENT: Stantec

N



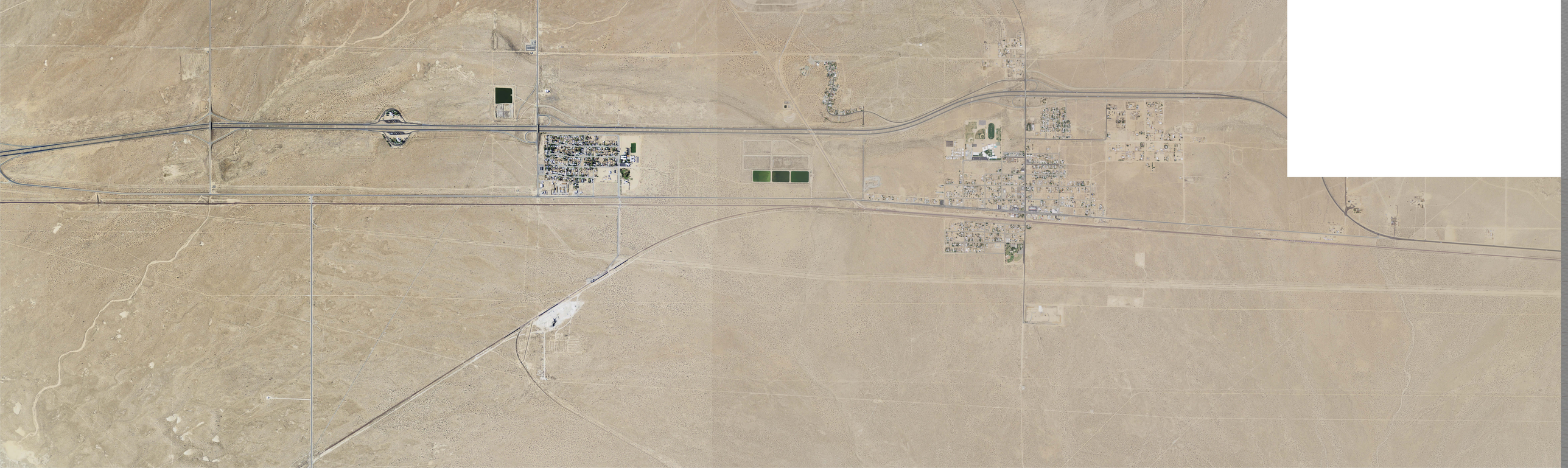
3-82













EDR DataMap®

Well Search

Aratina Solar Farm

- Listed Water Wells
- Study Boundary
- Roads
- Major Roads
- Waterways
- Railroads
- Contour Lines
- Fault Lines
- Water
- Superfund Sites
- 100-Yr Flood Zones
- Wetlands



Kern County, CA

0 1/2 1

Scale in Miles

EDR® Environmental Data Resources Inc

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Aratina Solar Farm
Kern County, CA 93516

Inquiry Number: 5567832.2w
February 20, 2019

EDR DataMap™ Well Search Report

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

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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GEOCHECK VERSION 2.1
SUMMARY

FEDERAL DATABASE WELL INFORMATION

MAP ID	WELL ID
1	USGS40000159824
2	USGS40000159822
3	USGS40000159770
4	USGS40000159754
5	USGS40000159752
7	USGS40000159693
8	USGS40000159675
9	USGS40000159637
10	USGS40000159632
11	USGS40000159626
11	USGS40000159616
12	USGS40000159617
11	USGS40000159615
11	USGS40000159612
13	USGS40000159603
14	USGS40000159597
15	USGS40000159593
17	USGS40000159585
16	USGS40000159586
18	USGS40000159582
18	USGS40000159581
19	USGS40000159575
20	USGS40000159570
21	USGS40000159553
22	USGS40000159546
23	USGS40000159544
24	USGS40000159545
24	USGS40000159539
23	USGS40000159538
24	USGS40000159540
25	USGS40000159530
26	USGS40000159528
27	USGS40000159522
29	USGS40000159514
27	USGS40000159510
31	USGS40000159505
30	USGS40000159506
32	USGS40000159503
33	USGS40000159479
34	USGS40000159481
34	USGS40000159480
33	USGS40000159472
36	USGS40000159465
35	USGS40000159466
37	USGS40000159415

GEOCHECK VERSION 2.1
SUMMARY

FEDERAL DATABASE WELL INFORMATION

MAP ID	WELL ID
38	USGS40000159365
39	USGS40000159307

STATE WATER WELL INFORMATION

MAP ID	WELL ID
1	CADW60000028112
2	CADW60000028115
3	CADW60000028113
4	CADW60000028114
5	CADW60000028116
6	10399
6	10400
7	CADW60000028120
10	CADW60000028122
9	10402
11	CADW60000030964
11	CADW60000030966
11	CADW60000030965
11	CADW60000002896
13	CADW60000030967
14	CADW60000029630
15	CADW60000002897
16	CADW60000028123
17	CADW60000002895
18	CADW60000002899
18	CADW60000030968
20	CADW60000002894
21	CADW60000028121
22	10403
22	CADW60000028124
23	CADW60000030971
24	CADW60000030963
23	CADW60000030970
25	CADW60000002900
26	CADW60000002901
29	CADW60000030969
30	CADW60000031535
31	CADW60000007831
32	CADW60000031531
34	CADW60000031532
34	CADW60000007830
35	CADW60000007829
38	CADW60000031534

PUBLIC WATER SUPPLY SYSTEM INFORMATION

Map ID: 28
PWS ID: CA3600062
PWS Name: CAILLIER WATER SYSTEM
FOUR CORNERS SERVICES
005TH T10NR06W SBB&M
KRAMER, CA 94234

PWS currently has or had major violation(s) or enforcement: YES

GEOCHECK VERSION 2.1
SUMMARY

USGS TOPOGRAPHIC MAP(S)

34117-H5 KRAMER JUNCTION, CA

USGS TOPOGRAPHIC MAP(S)

34117-H6 LEUHMAN RIDGE, CA
34117-H7 ROGERS LAKE NORTH, CA
35117-A5 SADDLEBACK MOUNTAIN, CA
35117-A6 BORON, CA
35117-A7 NORTH EDWARDS, CA

AREA RADON INFORMATION

Federal Area Radon Information for Zip Code: 93516

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.600 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

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 SAN BERNARDINO COUNTY, CA

Number of sites tested: 18

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.678 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

Federal EPA Radon Zone for KERN 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 KERN COUNTY, CA

Number of sites tested: 94

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.422 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Water Well Information:

Map ID:	1		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N008W26D001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-01
Feet below surface:	170.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	2		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N008W28A001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	175
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	3	Level reading date:	1958-01-15
Feet below surface:	168.15	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1958-01-01	Feet below surface:	168.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-02-25	Feet below surface:	172.3
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID: 3
Organization ID: USGS-CA
Organization Name: USGS California Water Science Center

Monitor Location:	011N008W26E001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1952-11-03
Feet below surface:	159.37	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID: 4
Organization ID: USGS-CA
Organization Name: USGS California Water Science Center

Monitor Location:	011N008W26J002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19410101	Well Depth:	1400
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-01
Feet below surface:	171.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID: 5
Organization ID: USGS-CA
Organization Name: USGS California Water Science Center

Monitor Location:	011N008W29K001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19550101	Well Depth:	485.37
Well Depth Units:	ft	Well Hole Depth:	495
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	67	Level reading date:	2004-03-31
Feet below surface:	188.70	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2003-03-26	Feet below surface:	188.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-03-26	Feet below surface:	187.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-20	Feet below surface:	186.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-03-23	Feet below surface:	187.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-03-16	Feet below surface:	185.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-03-19	Feet below surface:	184.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-05	Feet below surface:	183.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-16	Feet below surface:	181.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-17	Feet below surface:	183.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-13	Feet below surface:	185.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-04-21	Feet below surface:	186.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-04-14	Feet below surface:	184.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-03-19	Feet below surface:	184.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-03-12	Feet below surface:	183.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-03-23	Feet below surface:	182.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-03-30	Feet below surface:	182.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-24	Feet below surface:	180.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-31	Feet below surface:	179.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-26	Feet below surface:	178.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-05	Feet below surface:	177.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-12	Feet below surface:	176.17
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1982-02-09	Feet below surface:	176.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-13	Feet below surface:	175.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-03-11	Feet below surface:	172.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-21	Feet below surface:	170.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-03-28	Feet below surface:	169.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1977-03-08	Feet below surface:	167.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-11	Feet below surface:	166.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-07	Feet below surface:	164.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-11	Feet below surface:	163.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-02-13	Feet below surface:	161.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-02-01	Feet below surface:	162.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-01-09	Feet below surface:	161.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-03-03	Feet below surface:	160.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-01-28	Feet below surface:	158.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-01-05	Feet below surface:	158.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-02-19	Feet below surface:	151.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-03-04	Feet below surface:	150.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-01-02	Feet below surface:	149.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-13	Feet below surface:	148.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-08	Feet below surface:	146.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-11	Feet below surface:	146.56
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1965-04-17	Feet below surface:	145.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-06	Feet below surface:	144.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-03	Feet below surface:	143.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-01-08	Feet below surface:	143.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-14	Feet below surface:	142.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-17	Feet below surface:	142.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-05-16	Feet below surface:	141.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-26	Feet below surface:	141.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-07-26	Feet below surface:	140.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-01	Feet below surface:	140.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-15	Feet below surface:	140.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-09-21	Feet below surface:	140.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-24	Feet below surface:	140.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-03	Feet below surface:	140.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-10-06	Feet below surface:	139.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-11	Feet below surface:	139.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-12-09	Feet below surface:	139.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-07-08	Feet below surface:	139.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-02-20	Feet below surface:	138.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-15	Feet below surface:	139.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-07-09	Feet below surface:	139.27
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1957-01-24	Feet below surface:	138.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-25	Feet below surface:	140.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-21	Feet below surface:	139.07
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID: 7

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N008W30Q001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19550101	Well Depth:	485
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-01
Feet below surface:	117.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID: 8

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N008W32A001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19670206	Well Depth:	530
Well Depth Units:	ft	Well Hole Depth:	530
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1967-02-01
Feet below surface:	163.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	9		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N008W35D001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19550101	Well Depth:	606
Well Depth Units:	ft	Well Hole Depth:	606
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-01
Feet below surface:	167.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	10		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N008W32G001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	156
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	17	Level reading date:	1968-10-14
Feet below surface:	135.50	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1968-03-04	Feet below surface:	134.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-10-23	Feet below surface:	134.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-03-13	Feet below surface:	128.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-10-25	Feet below surface:	133.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-08	Feet below surface:	132.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-19	Feet below surface:	132.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-04-17	Feet below surface:	131.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-18	Feet below surface:	131.19

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-03	Feet below surface:	130.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-11-07	Feet below surface:	130.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-14	Feet below surface:	130.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-11-05	Feet below surface:	130.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-26	Feet below surface:	129.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-25	Feet below surface:	129.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-01	Feet below surface:	129.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-01	Feet below surface:	129.00
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID: 11

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32G001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	232
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-01
Feet below surface:	152.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID: 11

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32G004S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19560101	Well Depth:	400

Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-01
Feet below surface:	148.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	12		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N008W32H001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19630101	Well Depth:	504
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1963-03-01
Feet below surface:	135.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	11		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32G003S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19460101	Well Depth:	300
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1946
Feet below surface:	170	Feet to sea level:	Not Reported
Note:	Other conditions existed that would affect the measured water level.		

Map ID:	11		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32G002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19540101	Well Depth:	210
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-01
Feet below surface:	149.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	13		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32H001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19560101	Well Depth:	429
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-01
Feet below surface:	160.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	14		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W31F001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19590101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1967-05-01
Feet below surface:	114.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	15		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32G005S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-01
Feet below surface:	237.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	17		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32E001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19560101	Well Depth:	502
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	3	Level reading date:	1958-01-14
Feet below surface:	241.45	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1958-01-01	Feet below surface:	241.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-05-31	Feet below surface:	232
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		

Map ID:	16		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N008W33L001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19580101	Well Depth:	500
Well Depth Units:	ft	Well Hole Depth:	Not Reported

Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 1 Level reading date: 1958-01-01
Feet below surface: 131.00 Feet to sea level: Not Reported
Note: Not Reported

Map ID: 18
Organization ID: USGS-CA
Organization Name: USGS California Water Science Center
Monitor Location: 011N007W32M002S Type: Well
Description: Not Reported HUC: 18090206
Drainage Area: Not Reported Drainage Area Units: Not Reported
Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
Aquifer: Basin and Range basin-fill aquifers
Formation Type: Not Reported Aquifer Type: Not Reported
Construction Date: 19560101 Well Depth: 530
Well Depth Units: ft Well Hole Depth: Not Reported
Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 3 Level reading date: 1958-01-14
Feet below surface: 216.55 Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1958-01-01 Feet below surface: 217.00
Feet to sea level: Not Reported Note: Not Reported

Level reading date: 1956-11-08 Feet below surface: 205
Feet to sea level: Not Reported
Note: Other conditions existed that would affect the measured water level.

Map ID: 18
Organization ID: USGS-CA
Organization Name: USGS California Water Science Center
Monitor Location: 011N007W32M001S Type: Well
Description: Not Reported HUC: 18090206
Drainage Area: Not Reported Drainage Area Units: Not Reported
Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
Aquifer: Basin and Range basin-fill aquifers
Formation Type: Not Reported Aquifer Type: Not Reported
Construction Date: 19500101 Well Depth: 410
Well Depth Units: ft Well Hole Depth: Not Reported
Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 1 Level reading date: 1953-04-22
Feet below surface: 201 Feet to sea level: Not Reported
Note: Not Reported

Map ID:	19		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N008W35N005S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	600
Well Depth Units:	ft	Well Hole Depth:	600
Well Hole Depth Units:	ft		

Map ID:	20		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W31J001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19570101	Well Depth:	500
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1958-01-01
Feet below surface:	243.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1958-01-01	Feet below surface:	243.00
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	21		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N008W31P001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19550101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	6	Level reading date:	1958-01-15
Feet below surface:	109.20	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1958-01-15	Feet below surface:	109.20

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-01	Feet below surface:	109.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-01	Feet below surface:	109.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-06	Feet below surface:	107.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-06	Feet below surface:	107.96
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID: 22

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N008W35N001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19560101	Well Depth:	667
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1957-11-11
Feet below surface:	210	Feet to sea level:	Not Reported
Note:	Other conditions existed that would affect the measured water level.		
Level reading date:	1957-11-11	Feet below surface:	210
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		

Map ID: 23

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32N004S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19460101	Well Depth:	375
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1958-01-01
Feet below surface:	216.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1958-01-01	Feet below surface:	216.00
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	24		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W31P002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID:	24		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W31P001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19260101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	4	Level reading date:	1951-02-28
Feet below surface:	237.74	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

Level reading date:	1951-02-28	Feet below surface:	237.74
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1951-01-31	Feet below surface:	246.95
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Level reading date:	1951-01-31	Feet below surface:	246.95
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		

Map ID:	23		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32N002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	454
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1958-01-01
Feet below surface:	225.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1958-01-01	Feet below surface:	225.00
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	24		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W31P003S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	223
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID:	25		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32N003S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	400
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1958-01-01
Feet below surface:	289.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1958-01-01	Feet below surface:	289.00

Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	26		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32P001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19340101	Well Depth:	220
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1958-01-01
Feet below surface:	161.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1958-01-01	Feet below surface:	161.00
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	27		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010N008W05B002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19570101	Well Depth:	2328
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID:	29		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	011N007W32N001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	305
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	8	Level reading date:	1958-01-14
Feet below surface:	155.48	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1958-01-14	Feet below surface:	155.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-01	Feet below surface:	155.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-01	Feet below surface:	155.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-11-03	Feet below surface:	156.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-11-03	Feet below surface:	156.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-27	Feet below surface:	156.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-27	Feet below surface:	156.4
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	27		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010N008W05B001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19550101	Well Depth:	1715
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID:	31		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010N008W01Z001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19660101	Well Depth:	435
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1966-04-01

Feet below surface:	219.00	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1966-04-01	Feet below surface:	219.00
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	30		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010N008W04A001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	123
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	28	Level reading date:	1952-05-06
Feet below surface:	141.00	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1952-05-06	Feet below surface:	141.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-02	Feet below surface:	143.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-04-02	Feet below surface:	143.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-03-08	Feet below surface:	141.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-03-08	Feet below surface:	141.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-01-16	Feet below surface:	141.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1952-01-16	Feet below surface:	141.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-12-21	Feet below surface:	141.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-12-21	Feet below surface:	141.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-15	Feet below surface:	141.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-11-15	Feet below surface:	141.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-09-18	Feet below surface:	141.48

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-09-18	Feet below surface:	141.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-08-21	Feet below surface:	141.56
Feet to sea level:	Not Reported		
Note:	The site had been pumped recently.		
Level reading date:	1951-08-21	Feet below surface:	141.56
Feet to sea level:	Not Reported		
Note:	The site had been pumped recently.		
Level reading date:	1951-07-25	Feet below surface:	141.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-07-25	Feet below surface:	141.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-06-28	Feet below surface:	143.95
Feet to sea level:	Not Reported		
Note:	The site had been pumped recently.		
Level reading date:	1951-06-28	Feet below surface:	143.95
Feet to sea level:	Not Reported		
Note:	The site had been pumped recently.		
Level reading date:	1951-05-07	Feet below surface:	142.74
Feet to sea level:	Not Reported		
Note:	The site had been pumped recently.		
Level reading date:	1951-05-07	Feet below surface:	142.74
Feet to sea level:	Not Reported		
Note:	The site had been pumped recently.		
Level reading date:	1951-04-10	Feet below surface:	141.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-04-10	Feet below surface:	141.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-02-28	Feet below surface:	141.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-02-28	Feet below surface:	141.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-31	Feet below surface:	141.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-31	Feet below surface:	141.29
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID: 32
Organization ID: USGS-CA
Organization Name: USGS California Water Science Center
Monitor Location: 010N007W05D001S
Type: Well
Description: Not Reported
HUC: 18090206
Drainage Area: Not Reported
Drainage Area Units: Not Reported
Contrib Drainage Area: Not Reported
Contrib Drainage Area Unts: Not Reported
Aquifer: Basin and Range basin-fill aquifers
Formation Type: Not Reported
Aquifer Type: Not Reported
Construction Date: Not Reported
Well Depth: Not Reported
Well Depth Units: Not Reported
Well Hole Depth: Not Reported
Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 2
Level reading date: 1958-01-01
Feet below surface: 261.00
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1958-01-01
Feet below surface: 261.00
Feet to sea level: Not Reported
Note: Not Reported

Map ID: 33
Organization ID: USGS-CA
Organization Name: USGS California Water Science Center
Monitor Location: 010N007W04A002S
Type: Well
Description: COMPUTER GENERATED LAT/LONG. +/- 500FT
HUC: Not Reported
Drainage Area: Not Reported
Drainage Area Units: Not Reported
Contrib Drainage Area: Not Reported
Contrib Drainage Area Unts: Not Reported
Aquifer: Basin and Range basin-fill aquifers
Formation Type: Not Reported
Aquifer Type: Not Reported
Construction Date: Not Reported
Well Depth: 240
Well Depth Units: ft
Well Hole Depth: Not Reported
Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 2
Level reading date: 1952-12
Feet below surface: 180.0
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1952-12
Feet below surface: 180.0
Feet to sea level: Not Reported
Note: Not Reported

Map ID: 34
Organization ID: USGS-CA
Organization Name: USGS California Water Science Center
Monitor Location: 010N007W06B002S
Type: Well
Description: Not Reported
HUC: 18090206
Drainage Area: Not Reported
Drainage Area Units: Not Reported
Contrib Drainage Area: Not Reported
Contrib Drainage Area Unts: Not Reported
Aquifer: Basin and Range basin-fill aquifers
Formation Type: Not Reported
Aquifer Type: Not Reported
Construction Date: 19550101
Well Depth: 454
Well Depth Units: ft
Well Hole Depth: Not Reported

Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 6 Level reading date: 1958-01-14
Feet below surface: 271.83 Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1958-01-14 Feet below surface: 271.83
Feet to sea level: Not Reported Note: Not Reported

Level reading date: 1958-01-01 Feet below surface: 272.00
Feet to sea level: Not Reported Note: Not Reported

Level reading date: 1958-01-01 Feet below surface: 272.00
Feet to sea level: Not Reported Note: Not Reported

Level reading date: 1955-06-30 Feet below surface: 206
Feet to sea level: Not Reported
Note: Other conditions existed that would affect the measured water level.

Level reading date: 1955-06-30 Feet below surface: 206
Feet to sea level: Not Reported
Note: Other conditions existed that would affect the measured water level.

Map ID: 34
Organization ID: USGS-CA
Organization Name: USGS California Water Science Center
Monitor Location: 010N007W06B001S Type: Well
Description: Not Reported HUC: 18090206
Drainage Area: Not Reported Drainage Area Units: Not Reported
Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported
Aquifer: Basin and Range basin-fill aquifers
Formation Type: Not Reported Aquifer Type: Not Reported
Construction Date: 19450101 Well Depth: Not Reported
Well Depth Units: Not Reported Well Hole Depth: Not Reported
Well Hole Depth Units: Not Reported

Ground water levels,Number of Measurements: 10 Level reading date: 1958-01-14
Feet below surface: 243.30 Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1958-01-14 Feet below surface: 243.30
Feet to sea level: Not Reported Note: Not Reported

Level reading date: 1958-01-01 Feet below surface: 243.00
Feet to sea level: Not Reported Note: Not Reported

Level reading date: 1958-01-01 Feet below surface: 243.00
Feet to sea level: Not Reported Note: Not Reported

Level reading date: 1950-09-11 Feet below surface: 201
Feet to sea level: Not Reported
Note: Other conditions existed that would affect the measured water level.

Level reading date: 1950-09-11 Feet below surface: 201
Feet to sea level: Not Reported
Note: Other conditions existed that would affect the measured water level.

Level reading date:	1946-12-09	Feet below surface:	185
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		

Level reading date:	1946-12-09	Feet below surface:	185
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		

Level reading date:	1945-09-07	Feet below surface:	182
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1945-09-07	Feet below surface:	182
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Map ID:	33		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010N007W04A001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG. +/-500FT		
HUC:	Not Reported	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported		
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	263
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID:	36		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010N007W02C001S	Type:	Well
Description:	COMPUTER GENERATED LAT.LONG. +/- 500FT		
HUC:	Not Reported	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported		
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID:	35		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010N007W06A001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	6	Level reading date:	1958-01-13
Feet below surface:	280	Feet to sea level:	Not Reported
Note:	The site was being pumped.		
Level reading date:	1958-01-13	Feet below surface:	280
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-01-01	Feet below surface:	280.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-01	Feet below surface:	280.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-08	Feet below surface:	223
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-01-08	Feet below surface:	223
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID:	37		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010N007W05F001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-01
Feet below surface:	180.00	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Map ID:	38		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010N008W02M001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19540101	Well Depth:	510
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-01
Feet below surface:	206.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID:	39		
Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	010N007W11D001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG. +/- 500FT		
HUC:	Not Reported	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported		
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	151.3
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID:	1		
Objectid:	28112	Latitude:	35.028
Longitude:	-117.7007	Site code:	350280N1177007W001
State well numbe:	11N08W26D001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028112		

Map ID:	2		
Objectid:	28115	Latitude:	35.0278
Longitude:	-117.7226	Site code:	350278N1177226W001
State well numbe:	11N08W28A001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028115		

Map ID: 3

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Objectid:	28113	Latitude:	35.0228
Longitude:	-117.7018	Site code:	350228N1177018W001
State well numbe:	11N08W26E001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028113		

Map ID:	4		
Objectid:	28114	Latitude:	35.0208
Longitude:	-117.6907	Site code:	350208N1176907W001
State well numbe:	11N08W26J002S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028114		

Map ID:	5		
Objectid:	28116	Latitude:	35.020252
Longitude:	-117.747563	Site code:	350203N1177485W001
State well numbe:	11N08W29K001S	Local well name:	'11N08W29K01'
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028116		

Map ID:	6		
Seq:	10399	Prim sta c:	11N/08W-32A01 S
Frds no:	1510002002	County:	15
District:	12	User id:	CYA
System no:	1510002	Water type:	G
Source nam:	WELL 15	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	350100.0	Longitude:	1174400.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1510002	System nam:	BORON CSD
Hqname:	Not Reported	Address:	P O DRAWER B
City:	BORON	State:	Not Reported
Zip:	93516	Zip ext:	Not Reported
Pop serv:	2400	Connection:	729
Area serve:	BORON COMMUNITY		

Sample date:	06-MAR-18	Finding:	0.309
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	06-MAR-18	Finding:	1.64
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		

Sample date:	06-MAR-18	Finding:	0.495
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-MAR-18	Finding:	0.439
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-MAR-18	Finding:	0.806
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-DEC-17	Finding:	0.7
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-DEC-17	Finding:	0.98
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-DEC-17	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-DEC-17	Finding:	74.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-DEC-17	Finding:	0.53
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-DEC-17	Finding:	3.52
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-DEC-17	Finding:	0.67
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	0.17
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	75.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-SEP-17	Finding:	0.55
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	1.e-002
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	0.91
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-JUN-17	Finding:	75.
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	07-MAR-17	Finding:	77.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-FEB-17	Finding:	6.3
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-FEB-17	Finding:	0.55
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-FEB-17	Finding:	0.89
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-FEB-17	Finding:	8.e-002
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-FEB-17	Finding:	0.73
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-FEB-17	Finding:	2.48
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-FEB-17	Finding:	0.48
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-FEB-17	Finding:	1.49
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-DEC-16	Finding:	77.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-DEC-16	Finding:	1.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-OCT-16	Finding:	1400.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-OCT-16	Finding:	0.421
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-OCT-16	Finding:	1.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-OCT-16	Finding:	0.48
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	08-SEP-16	Finding:	71.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-JUN-16	Finding:	76.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-MAR-16	Finding:	79.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-DEC-15	Finding:	79.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-DEC-15	Finding:	1.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-SEP-15	Finding:	76.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-AUG-15	Finding:	1600.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	210.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	1.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-AUG-15	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	56.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	10.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	260.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	3.9
Chemical:	POTASSIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	19-AUG-15	Finding:	300.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	150.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	19-AUG-15	Finding:	0.9
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	19-AUG-15	Finding:	77.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-AUG-15	Finding:	5.88
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	19-AUG-15	Finding:	0.381
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	910.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	0.19
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	0.32
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	19-AUG-15	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	0.758
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-JUN-15	Finding:	78.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-APR-15	Finding:	5.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-MAR-15	Finding:	73.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-FEB-15	Finding:	3.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	12-JAN-15	Finding:	5.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-DEC-14	Finding:	72.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-SEP-14	Finding:	72.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-JUN-14	Finding:	78.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-MAR-14	Finding:	77.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-DEC-13	Finding:	6.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-DEC-13	Finding:	75.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-SEP-13	Finding:	77.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-JUN-13	Finding:	77.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-MAR-13	Finding:	79.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-DEC-12	Finding:	83.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-SEP-12	Finding:	78.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	5.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	900.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	02-AUG-12	Finding:	0.44
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	8.31
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-AUG-12	Finding:	79.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	0.93
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-AUG-12	Finding:	160.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-AUG-12	Finding:	280.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	3.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	240.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	9.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	54.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	1500.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	02-AUG-12	Finding:	0.48
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-JUN-12	Finding:	71.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-APR-12	Finding:	4.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAR-12	Finding:	76.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Map ID:	6		
Seq:	10400	Prim sta c:	11N/08W-32H01 S
Frds no:	1510002001	County:	15
District:	12	User id:	CYA
System no:	1510002	Water type:	G
Source nam:	WELL 13	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	350100.0	Longitude:	1174400.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1510002	System nam:	BORON CSD
Hqname:	Not Reported	Address:	P O DRAWER B
City:	BORON	State:	Not Reported
Zip:	93516	Zip ext:	Not Reported
Pop serv:	2400	Connection:	729
Area serve:	BORON COMMUNITY		
Sample date:	10-OCT-12	Finding:	200.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	10-OCT-12	Finding:	37.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-OCT-12	Finding:	610.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-SEP-12	Finding:	42.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-SEP-12	Finding:	540.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-SEP-12	Finding:	180.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	02-AUG-12	Finding:	11.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	230.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	4.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	310.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	62.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	1500.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	160.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-AUG-12	Finding:	570.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	39.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	170.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	6.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	02-AUG-12	Finding:	0.84
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-AUG-12	Finding:	61.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	560.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	02-AUG-12	Finding:	77.
Chemical:	ALUMINUM	Report units:	UG/L
Dlr:	50.		
Sample date:	02-AUG-12	Finding:	980.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-12	Finding:	0.41
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUL-12	Finding:	170.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-12	Finding:	39.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-JUL-12	Finding:	570.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	38.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-FEB-12	Finding:	600.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-FEB-12	Finding:	190.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Map ID:	7		
Objectid:	28120	Latitude:	35.0147
Longitude:	-117.7671	Site code:	350147N1177671W001
State well numbe:	11N08W30Q001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028120		

Map ID: 10

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Objectid:	28122	Latitude:	35.01
Longitude:	-117.7487	Site code:	350100N1177487W001
State well numbe:	11N08W32G001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028122		

Map ID:	9		
Seq:	10402	Prim sta c:	11N/08W-35D01 S
Frds no:	1510027002	County:	15
District:	12	User id:	CYA
System no:	1510027	Water type:	G
Source nam:	WELL 02	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	350036.0	Longitude:	1174206.0
Precision:	2	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1510027	System nam:	DESERT LAKE COMM SERV DIST
Hqname:	Not Reported	Address:	P. O. BOX 567
City:	BORON	State:	CA
Zip:	93516	Zip ext:	Not Reported
Pop serv:	850	Connection:	235
Area serve:	DESERT LAKE		

Sample date:	06-MAR-18	Finding:	0.467
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	06-MAR-18	Finding:	0.249
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	06-MAR-18	Finding:	0.408
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	06-MAR-18	Finding:	0.808
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	06-DEC-17	Finding:	0.57
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	06-DEC-17	Finding:	0.24
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	06-DEC-17	Finding:	0.32
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	06-DEC-17	Finding:	41.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	06-DEC-17	Finding:	0.49
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	0.15
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	33.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-SEP-17	Finding:	0.34
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	1.e-002
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	0.75
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	2.5
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-JUN-17	Finding:	37.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-JUN-17	Finding:	6.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-MAR-17	Finding:	4.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-MAR-17	Finding:	30.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-FEB-17	Finding:	0.87
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-FEB-17	Finding:	0.54
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-FEB-17	Finding:	0.39
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-FEB-17	Finding:	1.49
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-FEB-17	Finding:	1.84
Chemical:	RADIUM 228	Report units:	PCI/L

Dlr:	1.		
Sample date:	07-FEB-17	Finding:	0.704
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-FEB-17	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	07-FEB-17	Finding:	7.e-002
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-DEC-16	Finding:	5.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-DEC-16	Finding:	41.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-SEP-16	Finding:	31.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-AUG-16	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	1900.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	5.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-AUG-16	Finding:	300.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	86.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	20.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	08-AUG-16	Finding:	290.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	6.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	290.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	280.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-AUG-16	Finding:	0.73
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-AUG-16	Finding:	45.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-AUG-16	Finding:	52.
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	08-AUG-16	Finding:	3100.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	08-AUG-16	Finding:	35.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	08-AUG-16	Finding:	7.2
Chemical:	SELENIUM	Report units:	UG/L
Dlr:	5.		
Sample date:	08-AUG-16	Finding:	0.651
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	1100.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	0.7
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	5.8
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-AUG-16	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-AUG-16	Finding:	2.36
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	06-JUN-16	Finding:	28.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-MAY-16	Finding:	31.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-DEC-15	Finding:	5.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-DEC-15	Finding:	31.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-SEP-15	Finding:	30.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-JUN-15	Finding:	28.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-SEP-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-SEP-14	Finding:	27.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-JUN-14	Finding:	31.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-JUN-14	Finding:	29.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-MAR-14	Finding:	39.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-JAN-14	Finding:	2.2
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	16-DEC-13	Finding:	28.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-SEP-13	Finding:	26.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-JUN-13	Finding:	68.
Chemical:	COPPER	Report units:	UG/L
Dlr:	50.		

Sample date:	18-JUN-13	Finding:	130.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	18-JUN-13	Finding:	5.8
Chemical:	SELENIUM	Report units:	UG/L
Dlr:	5.		
Sample date:	18-JUN-13	Finding:	0.582
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	1200.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	0.68
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-JUN-13	Finding:	6.1
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	18-JUN-13	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	42.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-JUN-13	Finding:	0.7
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	18-JUN-13	Finding:	280.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	18-JUN-13	Finding:	270.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	5.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	270.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	18.
Chemical:	MAGNESIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	18-JUN-13	Finding:	75.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	260.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	200.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	1800.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	18-JUN-13	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	13-MAR-13	Finding:	29.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-NOV-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-NOV-12	Finding:	30.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-SEP-12	Finding:	32.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-JUN-12	Finding:	31.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-MAR-12	Finding:	38.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Map ID:	11		
Objectid:	30964	Latitude:	35.0094
Longitude:	-117.639	Site code:	350094N1176390W001
State well numbe:	11N07W32G001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern

Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000030964		

Map ID:	11		
Objectid:	30966	Latitude:	35.0086
Longitude:	-117.6393	Site code:	350086N1176393W001
State well numbe:	11N07W32G004S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000030966		

Map ID:	11		
Objectid:	30965	Latitude:	35.0083
Longitude:	-117.6407	Site code:	350083N1176407W001
State well numbe:	11N07W32G003S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000030965		

Map ID:	11		
Objectid:	2896	Latitude:	35.008
Longitude:	-117.6415	Site code:	350080N1176415W001
State well numbe:	11N07W32G002S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000002896		

Map ID:	13		
Objectid:	30967	Latitude:	35.0072
Longitude:	-117.6349	Site code:	350072N1176349W001
State well numbe:	11N07W32H001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000030967		

Map ID:	14		
Objectid:	29630	Latitude:	35.0069
Longitude:	-117.6612	Site code:	350069N1176612W001
State well numbe:	11N07W31F001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office

Site id: CADW60000029630

Map ID: 15
Objectid: 2897
Longitude: -117.6407
State well numbe: 11N07W32G005S
Well use id: 6
County id: 15
Basin code: '6-44'
Dwr region id: 80238
Site id: CADW60000002897
Latitude: 35.0066
Site code: 350066N1176407W001
Local well name: ''
Well use descrip: Unknown
County name: Kern
Basin desc: Antelope Valley
Dwr region: Southern Region Office

Map ID: 16
Objectid: 28123
Longitude: -117.7351
State well numbe: 11N08W33L001S
Well use id: 6
County id: 15
Basin code: '6-44'
Dwr region id: 80238
Site id: CADW60000028123
Latitude: 35.0061
Site code: 350061N1177351W001
Local well name: ''
Well use descrip: Unknown
County name: Kern
Basin desc: Antelope Valley
Dwr region: Southern Region Office

Map ID: 17
Objectid: 2895
Longitude: -117.6485
State well numbe: 11N07W32E001S
Well use id: 6
County id: 15
Basin code: '6-44'
Dwr region id: 80238
Site id: CADW60000002895
Latitude: 35.0061
Site code: 350061N1176485W001
Local well name: ''
Well use descrip: Unknown
County name: Kern
Basin desc: Antelope Valley
Dwr region: Southern Region Office

Map ID: 18
Objectid: 2899
Longitude: -117.6496
State well numbe: 11N07W32M002S
Well use id: 6
County id: 15
Basin code: '6-44'
Dwr region id: 80238
Site id: CADW60000002899
Latitude: 35.0053
Site code: 350053N1176496W002
Local well name: ''
Well use descrip: Unknown
County name: Kern
Basin desc: Antelope Valley
Dwr region: Southern Region Office

Map ID: 18
Objectid: 30968
Longitude: -117.6496
State well numbe: 11N07W32M001S
Well use id: 6
County id: 15
Basin code: '6-44'
Dwr region id: 80238
Site id: CADW60000030968
Latitude: 35.0053
Site code: 350053N1176496W001
Local well name: ''
Well use descrip: Unknown
County name: Kern
Basin desc: Antelope Valley
Dwr region: Southern Region Office

Map ID: 20

Objectid:	2894	Latitude:	35.0041
Longitude:	-117.6526	Site code:	350041N1176526W001
State well numbe:	11N07W31J001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000002894		

Map ID:	21		
Objectid:	28121	Latitude:	35.003
Longitude:	-117.7671	Site code:	350030N1177671W001
State well numbe:	11N08W31P001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028121		

Map ID:	22		
Seq:	10403	Prim sta c:	11N/08W-35N02 S
Frds no:	1510027001	County:	15
District:	12	User id:	CYA
System no:	1510027	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	350007.0	Longitude:	1174202.0
Precision:	2	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1510027	System nam:	DESERT LAKE COMM SERV DIST
Hqname:	Not Reported	Address:	P. O. BOX 567
City:	BORON	State:	CA
Zip:	93516	Zip ext:	Not Reported
Pop serv:	850	Connection:	235
Area serve:	DESERT LAKE		

Map ID:	22		
Objectid:	28124	Latitude:	35.0019
Longitude:	-117.7024	Site code:	350019N1177024W001
State well numbe:	11N08W35N001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000028124		

Map ID:	23		
Objectid:	30971	Latitude:	35.0016
Longitude:	-117.6504	Site code:	350016N1176504W001
State well numbe:	11N07W32N004S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown

County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000030971		

Map ID:	24		
Objectid:	30963	Latitude:	35.0014
Longitude:	-117.6596	Site code:	350014N1176596W001
State well numbe:	11N07W31P001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000030963		

Map ID:	23		
Objectid:	30970	Latitude:	35.0014
Longitude:	-117.6501	Site code:	350014N1176501W001
State well numbe:	11N07W32N002S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000030970		

Map ID:	25		
Objectid:	2900	Latitude:	35.0003
Longitude:	-117.6493	Site code:	350003N1176493W001
State well numbe:	11N07W32N003S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000002900		

Map ID:	26		
Objectid:	2901	Latitude:	35
Longitude:	-117.6429	Site code:	350000N1176429W001
State well numbe:	11N07W32P001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000002901		

Map ID:	29		
Objectid:	30969	Latitude:	34.9989
Longitude:	-117.6474	Site code:	349989N1176474W001
State well numbe:	11N07W32N001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley

Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000030969		

Map ID:	30		
Objectid:	31535	Latitude:	34.9983
Longitude:	-117.7226	Site code:	349983N1177226W001
State well numbe:	10N08W04A001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000031535		

Map ID:	31		
Objectid:	7831	Latitude:	34.9983
Longitude:	-117.6926	Site code:	349983N1176926W001
State well numbe:	10N08W01Z001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000007831		

Map ID:	32		
Objectid:	31531	Latitude:	34.998
Longitude:	-117.649	Site code:	349980N1176490W001
State well numbe:	10N07W05D001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000031531		

Map ID:	34		
Objectid:	31532	Latitude:	34.9969
Longitude:	-117.6574	Site code:	349969N1176574W001
State well numbe:	10N07W06B001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000031532		

Map ID:	34		
Objectid:	7830	Latitude:	34.9969
Longitude:	-117.6574	Site code:	349969N1176574W002
State well numbe:	10N07W06B002S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000007830		

Map ID: 35

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Objectid:	7829	Latitude:	34.9964
Longitude:	-117.6529	Site code:	349964N1176529W001
State well numbe:	10N07W06A001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000007829		

Map ID:	38		
Objectid:	31534	Latitude:	34.9886
Longitude:	-117.7024	Site code:	349886N1177024W001
State well numbe:	10N08W02M001S	Local well name:	''
Well use id:	6	Well use descrip:	Unknown
County id:	15	County name:	Kern
Basin code:	'6-44'	Basin desc:	Antelope Valley
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000031534		

GEOCHECK VERSION 2.1
PUBLIC WATER SUPPLY SYSTEM INFORMATION

PWS SUMMARY:

Map ID:	28		
Epa region:	09	State:	CA
Pwsid:	CA3600062	Pwsname:	CALLIER WATER SYSTEM
Cityserved:	Not Reported	Stateserved:	CA
Zipserved:	Not Reported	Fipscounty:	06071
Status:	Active	Retpopsrvd:	1000
Pwssvcconn:	6	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	Karen Callier	Contactorgname:	Callier Water System
Contactphone:	7607626692	Contactaddress1:	25831 Cherry Hill Dr
Contactaddress2:	Not Reported	Contactcity:	Boron
Contactstate:	CA	Contactzip:	93516
Pwsactivitycode:	A		

PWS ID:	CA3600062	PWS type:	System Owner/Responsible Party
PWS name:	FOUR CORNERS SERVICES	PWS address:	Not Reported
PWS city:	BORON	PWS state:	CA
PWS zip:	935160000	PWS ID:	CA3600062
Activity status:	Active	Date system activated:	7706
Date system deactivated:	Not Reported	Retail population:	00000025
System name:	CAILLIER WATER SYSTEM	System address:	FOUR CORNERS SERVICES
System address:	005TH T10NR06W SBB&M	System city:	KRAMER
System state:	CA	System zip:	94234

Population served:	Under 101 Persons	Treatment:	Untreated

Latitude:	345957	Longitude:	1173856

Violation id:	1400008	Orig code:	S
State:	CA	Violation Year:	2013
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	21	Violation name:	MCL, Acute (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	09/01/2013
Cmp edt:	10/31/2013		

System Name:	CALLIER WATER SYSTEM	Violation Type:	23
Contaminant:	3100	Compliance Begin:	1995-01-01
Compliance End:	1995-03-31	Violation ID:	9566001
Enforcement Date:	Not Reported	Enforcement Action:	Not Reported

System Name:	CALLIER WATER SYSTEM	Violation Type:	23
Contaminant:	3100	Compliance Begin:	1995-07-01
Compliance End:	1995-09-30	Violation ID:	9566002
Enforcement Date:	Not Reported	Enforcement Action:	Not Reported

Violation ID:	9700001	Orig Code:	S
Enforcemnt FY:	2010	Enforcement Action:	05/20/2010
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

CALIFORNIA GOVERNMENT WELL RECORDS SEARCHED

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 Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

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.

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
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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Appendix F AGENCY RECORD

RECEIVED
By rosendoa at 4:41 pm, Mar 07, 2019

KERN COUNTY
Public Health Services
DEPARTMENT

MATTHEW CONSTANTINE
DIRECTOR

2700 M STREET, SUITE 300 | BAKERSFIELD, CALIFORNIA 93301-2370 | VOICE: 661-862-8740 | FAX: 661-862-8701 | KERNPUBLICHEALTH.COM

REQUEST FOR PUBLIC RECORDS

Describe the records you are requesting in as much detail (business name, address, type of record desired, etc.) as possible:

Please see attached spreadsheet of listed Kern County Assessor Parcel Numbers:

No addresses are associated with the listed APNs.

I am interested in reviewing records pertaining, but limited, to:

- Underground / Aboveground Storage Tanks
- Hazardous Material Storage
- Water Wells
- Pipelines
- Mining Operations
- Environmental Cleanups / Investigation reports

****

Joshua Sargent
Name (Please Print)

Stantec Consulting Services Inc.
Organization/Company

735 East Carnegie Drive, Suite 280, San Bernardfino, CA
Address

909-255-8221 / 909-289-7111
Phone Number

Joshua.Sargent@Stantec.com
Email Address

Signatu

March 7, 2019
Date

232-081-02		244-010-29
232-081-04		244-010-30
232-081-05		244-010-31
232-081-09		244-010-33
232-081-10		244-010-34
232-140-09		244-010-35
232-140-11		244-010-36
232-220-20		244-040-03
232-220-36		244-040-07
232-220-37		244-040-10
244-010-01		244-040-11
244-010-014		244-040-12
244-010-019		244-040-14
244-010-02		244-040-15
244-010-020		244-040-17
244-010-021		244-040-19
244-010-022		244-040-20
244-010-07		244-040-21
244-010-15		244-040-22
244-010-17		244-040-23
244-010-25		244-300-09
244-010-26		244-300-10
244-010-28		

From: Bilal Korin
To: EH; John Cogley
Cc: Nycole Brewer
Subject: RE: 03072019_JOSHUA SARGENT, STANTEC (SEVERAL APNS)
Date: Monday, March 11, 2019 9:35:37 AM

No Hazmat Files

Bilal Korin
Environmental Health Specialist IV/CUPA Supervisor
Kern County Public Health Services Department,
Environmental Health Division
2700 M Street, Suite 300
Bakersfield, CA 93301
Office #: 661-862-8730
Fax #: 661-862-8701
E-mail: korinb@kerncounty.com

From: EH <eh@kerncounty.com>
Sent: Thursday, March 7, 2019 4:43 PM
To: Bilal Korin <KorinB@ph.kerncounty.com>; John Cogley <cogleyj@kerncounty.com>
Cc: Nycole Brewer <brewerny@kerncounty.com>
Subject: 03072019_JOSHUA SARGENT, STANTEC (SEVERAL APNS)

From: Sargent, Josh <Joshua.Sargent@stantec.com>
Sent: Thursday, March 7, 2019 2:40 PM
To: EH
Cc: Monge, Dion
Subject: Public Records Request

Hello,

I am emailing to issue a public records request for a series of parcels located in the Boron area. Unfortunately, no addresses are associated with the parcels. I have attached the Kern County Public Records Request form with a list of APNs. This request is in connection with a Phase I Environmental Site Assessment for the property.

If you have any questions, please let me know.

Joshua Sargent
Geologic Project Specialist

Direct: 909 335-6116 ext 8221
Mobile: 909 289-7111
Fax: 909 335-6120
Joshua.Sargent@Stantec.com

Title: Mojave Pipelin Company
(Owner / Water System Name)

Permit #: _____ WP #: 3445 EH #: 236-92 WA #: _____

LA #: 25265

APN #1: 23208110
(Well Location)

APN #2: _____

APN #3: _____

APN #4: _____

Township 11

Range 08

Section 34

6/14/13
CE

Owl Rock Products

ROCK • SAND • BASE MATERIALS • READY MIXED CONCRETE

CUSTOMER COPY #2

SEE REVERSE SIDE FOR PLANT LOCATIONS

SOLD TO

JOB ADDRESS

PLANT CODE	DELIVERY DATE	CONTROL NO	INVOICE NO	TICKET NO.

ZONE NO	CUST NO	CUSTOMER ORDER NO	SALE ORDER NO	MAP PAGE

TRUCKING INFORMATION	0	OUR TRUCK NO	R	RENTAL TRUCK NO	C	PLANT PICK UP	TRUCK LICENSE NO

LOAD NO	CU. YDS. THIS LOAD	ACCUM. CUBIC YARDS	MIX NO
1			

CEMENTITIOUS LBS	% C/C PTS
9,110	

W C SAND	#2 ROCK	#3 ROCK	#4 ROCK
10,200 LBS	LBS.	LBS.	LBS.

MOJAVE PIPELINE CO.

TOTAL ALLOW WATER GAL.

ADMIX	QUANTITY	U/M	FREE MOISTURE
			GAL.

ADMIX	QUANTITY	U/M	ADDED AT PLANT
EH 236-92			GAL.

ADMIX	QUANTITY	U/M	ADDED ON JOB
			GAL.

OWL ROCK PRODUCTS WEIGHMASTER

By _____ DEPUTY

C.O.D. INFORMATION

CODE	QUANTITY	DESC.	PRICE	AMOUNT
		YDS. RMC		
903		MIN. LOAD CHARGE		

CASH ☐ C.O.D. SALES TAX %

CHECK ☐ _____ AMOUNT SUB TOTAL

902	MINUTES	EXCESS UNLOADING	
	MINUTES		

CONDITIONS OF DELIVERY

UNLOADING TIME SHALL COMMENCE WHEN TRUCK ARRIVES AT JOBSITE TIME IN EXCESS OF THE ALLOWABLE WILL BE CHARGED AT PREVAILING RATE

DELIVERIES SHALL BE MADE WHERE CUSTOMER DESIGNATES CUSTOMER HEREBY ASSUMES RESPONSIBILITY FOR DAMAGES INSIDE CURB OR PROPERTY LINE

CLAIMS FOR SHORTAGE WILL NOT BE ALLOWED UNLESS MADE AT TIME OF DELIVERY WATER OR OTHER INGREDIENTS ADDED TO THIS CONCRETE MAY REDUCE ITS STRENGTH AND QUALITY AND SHALL BE ADDED ONLY AT CUSTOMER'S REQUEST CUSTOMER HEREBY AGREES TO INDEMNIFY OWL FROM ANY CLAIM ARISING FROM SUCH ADDITIONS

RECEIVED BY _____

TOTAL CHARGES

FINISH UNLOAD	LEAVE JOB	CLOCK FINISH

START UNLOAD	ARRIVE JOB	CLOCK START
1:15	1:35	

REV COUNTER READING AT PLANT	EST SLUMP	S T CR MIN
21135	7"	

ALL MATERIAL HAS BEEN BATCHED AND DELIVERED IN ACCORDANCE WITH ASTM C-94 AND ACI 318.

DRIVER SIGN X _____

I do hereby certify that I delivered the herein named materials at the above named address and saw said material incorporated into said address

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

UNLOADING RELEASE

In consideration of Owl Rock Products (Material Dealer) delivering this purchased material to a place designated by the undersigned, the undersigned hereby releases and agrees to indemnify and hold harmless said Material Dealer, their Agents, employees and drivers from all liability or claims for damage done by it, or them, to all real and personal property at the location indicated hereon as a result of the movement of said Material Dealer's vehicles or employees upon or about such property.

This release is intended to, and does cover all movements of all vehicles of said Material Dealer, at the location indicated hereon, from the time such vehicles leave the curb line to enter upon the property described hereon until they return to such curb line, regardless of the number and/of dates of such deliveries or movements.

By _____ Title _____

PURCHASER OR AGENT

REASON FOR DELAY TIME ✓

☐ JOB NOT READY (1) ☐ SLOW PLACING METHOD (2) ☐ ARRIVED JOB EARLY (3)

☐ ADDING WATER (4) ☐ TRUCK BROKE DOWN (5) ☐ JOB BROKE DOWN (6)

☐ OTHER (EXPLAIN FULLY) (7) _____

REMARKS: _____

RM 63985

PLANT NUMBER AND LOCATION

21	RIALTO	3221 N. RIVERSIDE AVENUE RIALTO 92376 (714) 428-6682
24	CORONA	13021 SAMPSON STREET CORONA, 91720 (818) 443-0111
28	RIVERSIDE	1919 MASSACHUSETTS AVE. RIVERSIDE, 92502 (714) 369-6912
29	SUN CITY	27050 WATSON ROAD ROMOLAND, 92380 (714) 350-1846
31	IRWINDALE	13623 EAST LIVE OAK AVE. IRWINDALE, 91706 (818) 443-0111
45	BARSTOW	31300 EAST HWY. 66 BARSTOW, 92311 (619) 252-3411
36	PASADENA	1420 NORTH LINCOLN AVE. PASADENA, 91109 (818) 443-0111
38	LOS ANGELES	3365 EAST 26TH STREET LOS ANGELES, 90052 (818) 443-0111
41	ANAHEIM	24000 SANTA ANA CANYON RD. ANAHEIM, 92807 (818) 443-0111
48	ARROWHEAD	29750 HIGHWAY 18 LAKE ARROWHEAD, 92352 (714) 337-7577
42	VICTORVILLE	16952 D STREET VICTORVILLE, 92392 (619) 245-7997

Kern County
Environmental Health Services Department
2700 "M" Street, Suite 300
Bakersfield, CA 93301
(805) 861-3636

APPLICATION FOR A PERMIT TO CONSTRUCT, RECONSTRUCT, DEEPEN OR DESTROY A WELL

PERMIT NUMBER: EH236-92
CT: 55C-9
APN: 232-081-10

7/16/92
APPLICATION DATE

PROPOSED STARTING DATE

PROPOSED COMPLETION DATE

OWNERS NAME MOJAVE PIPELINE CO. HOME PHONE NO.
ADDRESS P.O. BOX 10269; BAKERSFIELD CA 90089-0269 WORK PHONE NO. (805) 861-7320

CONTRACTOR FARWEST CORROSION CONTROL CO. LICENSE NO. 248232
ADDRESS 17311 So. MAIN ST.; GARDENA, CA 90248 PHONE NO. (310) 532-9524

SUBCONTRACTOR LICENSE NO.
ADDRESS

JOB SITE: T 11N R 8W SEC. 34 40 ACRE SUB. SE1/4 SE1/4 B

DIRECTIONS TO WELL SITE:

TYPE OF WORK DONE: (CHECK ONE)
NEW WELL ☒ DEEPEN ☐
RECONSTRUCTION ☐ DESTRUCTION ☐

INTENDED USE:
DOMESTIC/PRIVATE ☐ (1 Connection)
DOMESTIC/NONPUBLIC ☐ (2-4 Connections)
DOMESTIC/PUBLIC ☐ (5 or more connections)
AGRICULTURAL ☐
TEST HOLE ☐
MONITORING ☐
CATHODIC PROTECTION ☒
OTHER

CONSTRUCTION METHOD:
REVERSE ROTARY ☐
ROTARY ☒
AIR ROTARY ☐
CABLE TOOL ☐
BORED ☐
OTHER

DEPTH TO WATER:

SEALING MATERIAL: (CHECK ONE)
NEAT CEMENT ☐
CEMENT GROUT ☒
CONCRETE ☐
PUDDLED CLAY ☐
OTHER

GRAVEL PACK: (CHECK ONE)
YES ☐ NO ☒
FROM ____ TO ____
FROM ____ TO ____

PROPOSED CASING:
DIAMETER 6" TYPE PVC
DEPTH 210'
CONDUCTOR DEPTH
GAUGE/WALL 40

PROPOSED WELL CONSTRUCTION (DEPTH):
MAX 400 FT MIN 400 FT

PROPOSED WELL DESTRUCTION:
WELL DEPTH N/A FT
PENETRATES 2 OR MORE AQUIFERS
YES ☐ NO ☐

PROPOSED PERFORATIONS OR SCREEN:
VENT
FROM -200' TO -400' FEET
FROM ____ TO ____ FEET
FROM ____ TO ____ FEET
FROM ____ TO ____ FEET

WELL CONSTRUCTION OR DESTRUCTION PROPOSED SEALS/PLUG(S):
ANNULAR 0 TO -200'
OTHER
FROM ____ TO ____ FEET
FROM ____ TO ____ FEET

SEE REVERSE

GENERAL CONDITIONS

1. Permit applications must be submitted to the Planning Department for zoning, access and flood plain clearances prior to submission to the Environ mental Health Services Department.

2. Permit applications must be submitted to the Environmental Health Services Department at least 10 working days prior to the proposed starting date.

3. Well site approval is required before beginning any work related to well construction. It is unlawful to continue work past the stage at which an inspection is required unless inspection is waived or completed.

4. Other required inspections include: setting conductor casing, E-Logs, all annular seals, and final construction features.

5. In areas where a well penetrates more than one aquifer, and one or more of the aquifers may contain water which is of a quality which may degrade thee other aquifers(s) penetrated if allowed to comingle, an E-Log shall be required to determine the location of the confining clay layer(s) and assist in the placement of any required annular seal(s).

6. A phone call to the Department office is required on the morning of the day that work is to commence and 24 hours before the placement of any seals or plugs.

7. Approval of water quality and final construction features are required before the well is put into use, and before a Permit Number is released to Building Inspection Services.

8. Construction under this Permit is subject to any instructions by Department representatives.

9. Any misrepresentation or non-compliance with required Permit Conditions, or the Ordinance, will result in issuance of a "Stop Work Order".

10. A copy of the Department of Water Resources Driller's Report and water quality analyses must be submitted to the Environmental Health Services Department within 30 days after completion of the work.

11. "Dry" holes must be properly destroyed within two (2) weeks of drilling. A well destruction application must be filed with this Department.

12. The permit is void on the ninetieth (90) calendar day after date of issuance if work has not been started and reasonable progress toward completion made. Fees are not refundable nor transferable.

13. Lead pipe shall not be used in construction of any private or public water supply system.

14. The use of solders containing more than 2/10 of 1% lead is prohibited in making joints and fittings in any private or public potable water system.

15. Permittee shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend and save the County of Kern and/or Kern County Water Agency, its officers, agents, and employees free and harmless from any and all expense, cost or liability in connection with or resulting from the exercise of this Permit, including, but not limited to, property damage, personal injury and wrongful death.

I certify that I am the owner of the above-described property, or the authorized representative of such owner, and that I furnished all of the above information and intend to construct/destroy the well as represented above. I understand that all work is to be done in accordance with Kern County Ordinance Code Chapter 14.08 and Bulletin 74-81 and the conditions of this Permit Application including any conditions which may be added or changed by the Environmental Health Services Department upon review of this Application and issuance of the Permit. I further understand that any permit issued pursuant to this application is subject to such further conditions as may be deemend necessary to insure compliance with the Ordinance Code.

Owner's Signature _____ Date _____ Authorized Representative K. Schroeder Date 7/16/92

ZONING

Zone _____

Access Approval: Yes ____ No ____

Flood Plain Approval Required: Yes ____ No ____

Application Approved By _____ Date _____

Disapproved By _____ Date _____

Reasons for Denial or Conditions:

_____

_____

_____

_____

_____

See Attached Conditions

KERN COUNTY WATER AGENCY

	Inspector	Date	Time
Boundary			
Conductor			
E-Log			
Bottom Seal			
Top / Seal			
Final			

Total Time _____

Permit Approved _____

Date

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

Conditions of Permit or Reasons for Denial

E-Log Required: Yes ____ No ____

Gravel Chute Required: Yes ____ No ____

_____

_____

_____

_____

_____

_____

_____

Total Fee 225' Paid on 7-16-92

Receipt # 77027 asn ____ Check # ____

Fee Received By Donna Benton

Well Permit Application

Kern County
Environmental Health Services Department
2700 "M" Street, Suite 300
Bakersfield, CA 93301
(805) 861-3636

Parcel No. _____

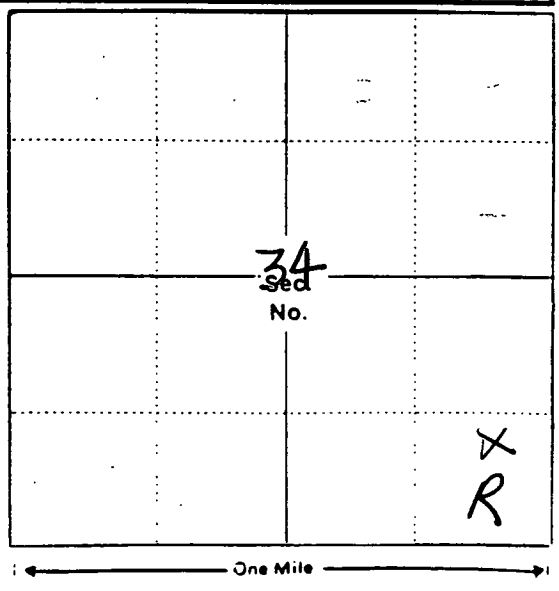
Assessor's Parcel No. 232-081-10

LOCATION

A. Indicate below the exact location of well with respect to the following items: property lines, water bodies or water courses, drainage pattern, roads, existing wells, structures, sewers and private disposal systems. Include dimensions.

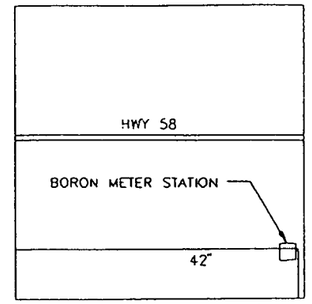
SEE ATTACHED DRAWINGS.

B. LOCATION OF WELL WITHIN SECTION LINES. Locate well by measuring from proposed well site to two (2) section lines or 1/4 section lines if a road(s) borders the land. The measurement(s) should also be made from the center of the road.

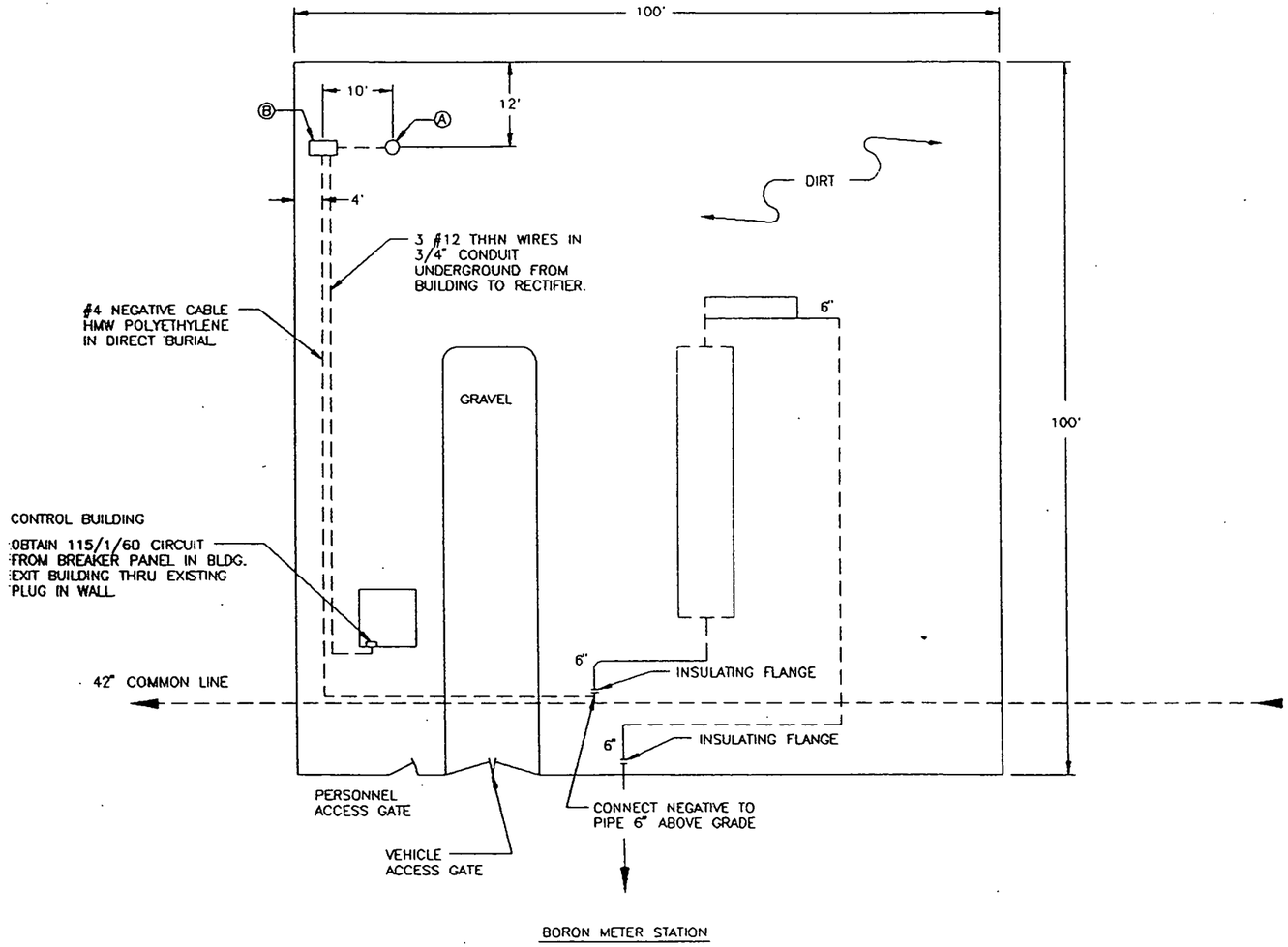


REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED





T-11-N, R-8-W, SECTION 34
1 SQUARE MILE



Ⓐ ANODE INSTALLATION DETAIL
SEE DRAWING 3260A-1

MODIFICATIONS:
1. PROTECTIVE FENCE NOT NEEDED.
2. MOUNT ANODE JUNCTION BOX ON RECTIFIER.

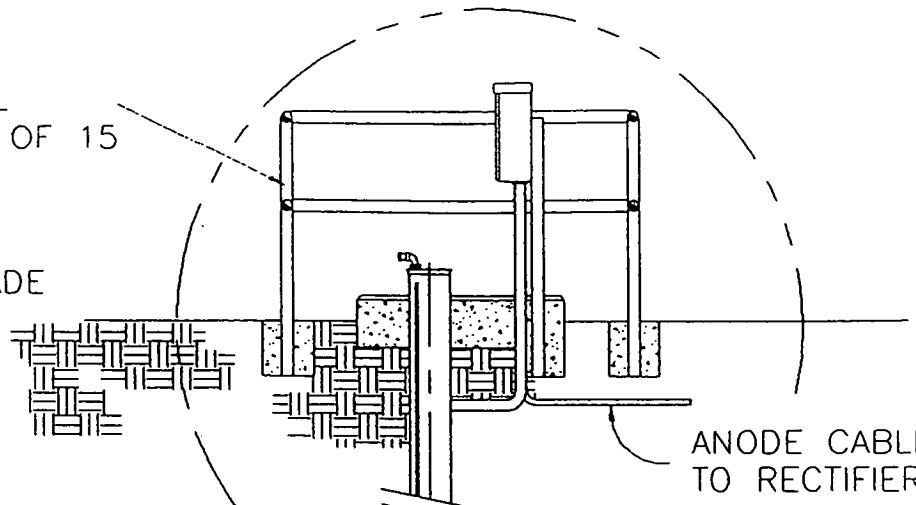
Ⓑ RECTIFIER INSTALLATION DETAIL
SEE DRAWING 3260A-4

MODIFICATIONS:

KERN COUNTY
ASSESSORS PARCEL NO. 23208110

DRAWN	GE	5/92	FARWEST CORROSION CONTROL CO. 17311 So. MAIN St. GARDENA, CALIFORINA 90248
CHECKED			
ENGINEER	RLA	5/92	MOJAVE PIPELINE COMPANY CATHODIC PROTECTION SYSTEM MP 51.528 COMMONLINE BORON METER STATION
CONTRACT NO.			
OTHER APPROVALS			SIZE B · JOB NO. 3260 · PLOT PLAN
			SCALE: NONE · FILE NO. CML2 · SHEET 5 OF 15

3260-CML2



SEE DETAIL
SHEET 11 OF 15

GRADE

ANODE CABLE(S)
TO RECTIFIER POSITIVE

PROVIDE SURFACE CASING TO
EL-200'. GROUT 2" MIN.
ANNULUS

EXTEND 6" PVC PIPE 10' INTO
COKE BACKFILL.

1/8" x 3/8" CALCINED PETROLEUM
COKE BREEZE 99% CARBON,
MINIMUM 50#/CUBIC FOOT
FROM -200' TO -400'.

3" x 60"
GRAPHITE
ANODE WITH #8
HMW CATHODIC
PROTECTION CABLE
(TYP. 15)
SEE DETAIL

EL-250' ANODE #15

EL-380' ANODE #2

NOTE:

ALL ANODE WIRES SHALL BE
PERMANENTLY MARKED AT THE
ANODE JUNCTION BOX. THE
BOTTOM ANODE IS ANODE #1.

USE 1" ALLVENT
IN LOWER 200'
OF HOLE. USE 1"
PVC IN UPPER 200'.

EL-390' ANODE #1

EL-400'

10" DIA.

NOTE: FILL
GROU
OF W
CHAP

WELL INSPECTION/CONTACT HISTORY

APPLICANT: MOJAVE P[illegible]ELINE CO. APN: 232-081-10
DRILLER: FARWEST CORROSION CONTROL CO. PERMIT: EH-236-92
INTENDED USE: cathodic protection

DATE	INSPECTOR/COMMENTS	TIME
9/18/92	190' SEAL STAT	3.5

COMPLETE THE FORM BELOW FOR DATA ENTRY PERSONNEL

DATE SITE APPROVED _____ / / _____ DATA ENTRY _____

DATE BOTTOM SEAL APPROVED _____ DATA ENTRY _____

DATE TOP SEAL APPROVED 9/18/92 DATA ENTRY KY

DATE SLAB APPROVED _____ / / _____ DATA ENTRY _____

DATE WATER QUALITY RECEIVED _____ DATA ENTRY _____

DATE FINAL CONSTRUCTION APPROVED _____ DATA ENTRY _____

FOR WELL DESTRUCTIONS :

DATE WELL DESTROYED _____ DATA ENTRY _____

INVOICE FOR TIME AT THE HOURLY RATE

INVOICE FOR _____ HOURS DATA ENTRY _____

WELL INSPECTION/CONTACT HISTORY

APPLICANT: NORTH AMERICAN CHEMICAL PIN: 244-040-07
DRILLER: ROTTMAN DRILLING CORP. PERMIT: EH-291-95
TYPE WORK/INTENDED USE: construct a(an) domestic well

DATE	INSPECTOR/COMMENTS	TIME
4-12-95	Top Seal - B. Thruston	3.5
5-21-96	Final OK - C. Hoff	1.0

COMPLETE THE FORM BELOW FOR DATA ENTRY PERSONNEL

DATE SITE APPROVED _____ / / _____ DATA ENTRY _____

DATE BOTTOM SEAL APPROVED _____ / / _____ DATA ENTRY _____

DATE TOP SEAL APPROVED 4/12/95 DATA ENTRY JA

DATE SURFACE SLAB APPROVED _____ / / _____ DATA ENTRY _____

DATE WATER QUALITY RECEIVED 5-22-96 DATA ENTRY JR

DATE FINAL CONSTRUCTION APPROVED 5-21-96 DATA ENTRY JR

FOR WELL DESTRUCTIONS :

DATE WELL DESTROYED _____ / / _____ DATA ENTRY _____

INVOICE FOR TIME AT $_____ PER HOUR

INVOICE FOR _____ HOURS DATA ENTRY _____

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

STEVE McCALLEY, R.E.H.S., Director
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301
Phone: (805) 862-8700
FAX: (805) 862-8701

RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

OFFICE MEMORANDUM

Date: May 23, 1996

TO: Engineering and Survey Services Department
Building Inspection Division

FROM: Steve McCalley, Director
By: Tom Hardy
Water Quality Program

Re: Well Permit Final Release

PERMIT: EH-291-95
APN: 244-040-07
TWN/RNG/SEC: 10N/08W/02-F
APPLICANT: NORTH AMERICAN CHEMICAL
MAILING ADDRESS: P.O. BOX 367
TRONA, CA. 93592
DRILLER: ROTTMAN DRILLING CORP.

Water quality has been evaluated and the applicant notified of the quality of water produced by the well. Final construction inspection indicates compliance with Kern County Ordinance Code, Title 14, Chapter 14.04.

JL:TH:

xc: NORTH AMERICAN CHEMICAL
ASSESSOR'S OFFICE
FILE EH-291-95

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

STEVE McCALLEY, R.E.H.S., Director
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301
Phone: (805) 862-8700
FAX: (805) 862-8701

RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

WATER SUPPLY CERTIFICATE

This water supply certificate is hereby issued for the well located on the following parcel:

APPLICANT:	North American Chemical
MAILING ADDRESS:	P. O. Box 367, Trona, CA 93592
TOWNSHIP/RANGE/SECTION:	T10N, R08W, Section 02-F
ASSESSOR'S PARCEL NUMBER:	244-040-07

The quality of water produced by the well has been evaluated using the water quality criteria listed below:

Bacteriological Analysis
General Mineral, General Physical, Inorganics Analysis
Uranium Analysis

The water produced by the well has been found to contain constituents which exceed the secondary drinking water standards. Secondary drinking water standards are those constituents found in domestic water which may adversely affect the taste, odor, and/or appearance of the water but are not generally known to be hazardous to health. The secondary standards exceeded in the water produced by your well include the following:

CONSTITUENT	LEVEL IN WELL WATER	STANDARD
Iron	1,350 ug/l	300 ug/l
Manganese	111 ug/l	50 ug/l
Zinc	12,400 ug/l	5,000 ug/l
Turbidity	5.3 NTU	5 NTU

The possible adverse effects of constituents which exceed the drinking water standards are explained in the enclosed advisories.

The water supply certificate is issued on this date, May 23, 1996.

Sincerely,

Steve McCalley, Director

By: Thomas Hardy, R.E.H.S.
Environmental Health Specialist III
Water Program

TH:cas
cc: File
\hardy\no-ameri.79s

Kern County
Environmental Health Services Dept.
2700 "M" Street, Suite 300
Bakersfield, CA 93301
Phone (805) 861-3636
FAX (805) 861-3429

SEAL WITNESSED By B. Thurston 4/12/95

Permit # EH-291-95

4/12/95 SEAC 3.5 Hrs

APPLICATION FOR PERMIT TO CONSTRUCT, RECONSTRUCT, DEEPEN OR DESTROY A WELL

APPLICATION DATE: MARCH 31,1995 **PROPOSED START DATE:**

OWNER: NORTH AMERICAN CHEMICAL CORP. **Phone:** 619-372-2202

Address: P.O. BOX 367 **City:** TRONA **Zip:** 93592

DRILLING CONTRACTOR: ROTTMAN DRILLING CO. **Phone:** 805-942-6125

Address: 46471 N. DIVISION **City:** LANCASTER **Zip:** 93535

SUBCONTRACTOR: NONE **Phone:**

Address: **City:** **Zip:**

JOB SITE: T 10N R 8W Sec. 2 40 Acre Sub.

PROPERTY DESCRIPTION: Assessor's Parcel No.: 244-040-07 (58)

SITE ADDRESS if available : NA **TOTAL ACRES:** 758 Lease

DIRECTIONS to Well Site: 20 mule Team Rd TO Delong Rd – East over RR Tracks Evelow Road TO SW TO site 1/2 mile

SE¼ of NW¼ of Sec. 2 T 10N R 8W

TYPE OF WORK TO BE DONE: (check one)
- ☒ New Well
- ☐ Reconstruction
- ☐ Deepen
- ☐ Destruction

INTENDED USE:
- ☒ Domestic/private (1 connection)
- ☐ Domestic/nonpublic (2-4 connections)
- ☐ Domestic/public (5 or more conn.)
- ☐ Agricultural
- ☐ Test Hole
- ☐ Monitoring
- ☐ Cathodic Protection
- ☐ Other

CONSTRUCTION METHOD:
- ☐ Reverse Rotary
- ☒ Rotary
- ☐ Air Rotary
- ☐ Other

SEALING MATERIAL: (check one)
- ☐ Neat Cement
- ☒ Cement Grout
- ☐ Concrete
- ☐ Other

GRAVEL PACK: (check one)
☒ Yes ☐ No
From 60 To 450 Feet

PROPOSED CASING:
Type A53B STEEL
Diameter 6 5/8"
Depth 450'
Conductor Depth NA
Gauge/Wall .188

PROPOSED WELL CONSTRUCTION (DEPTH)
Max. 450 Feet
Min. 400 Feet

PROPOSED PERFORATIONS OR SCREEN:
From 250 To 450 Feet
From ____ To ____ Feet

WELL CONSTRUCTION OR DESTRUCTION PROPOSED SEALS/PLUGS:
Annular 0-50
Other

PENETRATES TWO OR MORE AQUIFERS
☐ Yes ☒ No

PROPOSED WELL DESTRUCTION
Well Depth NA ft

THIS APPLICATION BECOMES A PERMIT WHEN APPROVED

Railroad APN 231-103-01
State Board # Portion of Parcel # 1-804-15-24B

GENERAL CONDITIONS:

1. Permit applications will be submitted to the Planning Department for zoning, access and flood plain clearances prior to approval of the Environmental Health Services Dept. If you are drilling within city's limits, you will have to receive approval from their planning department.
2. Permit applications must be submitted to the Environmental Health Services Department at least ten working days prior to the proposed starting date.
3. Well site approval is required before beginning any work related to well construction. It is unlawful to continue work past the stage at which an inspection is required unless inspection is waived or completed.
4. Other required inspections include: setting conductor casing, E-logs, all annular seals, and final construction features.
5. In areas where a well penetrates more than one aquifer, and one or more of the aquifers may contain water which is of a quality which may degrade the other aquifer(s) penetrated if allowed to commingle, an E-log shall be required to determine the location of the confining clay layer(s) and assist in the placement of any required annular seal(s).
6. A phone call to the Department office is required on the morning of the day that work is to commence and 24 hours before the placement of any seals or plugs.
7. Approval of water quality and final construction features are required before the well is put into use.
8. Construction under this Permit is subject to any instructions by Department representatives.
9. Any misrepresentation or non-compliance with required Permit Conditions, or regulations, will result in issuance of a "Stop Work Order".
10. A copy of the Department of Water Resources Driller's Report and water quality analyses must be submitted to the Environmental Health Services Department within 30 days after completion of the work.
11. "Dry" holes must be properly destroyed within two (2) weeks of drilling. A well destruction application must be filed with this Department.
12. The permit is void on the ninetieth (90) calendar day after date of issuance if work has not been started and reasonable progress toward completion made. Fees are not refundable nor transferable.
13. Lead appurtenances shall not be used in construction of any private or public water supply system. The use of solders containing more than 2/10 of 1% lead is prohibited in making joints and fittings in any private or public potable water system.
14. Permittee shall assume entire responsibility of all activities and uses under this Permit and shall indemnify, defend and save the County of Kern and/or Kern County Water Agency, its officers, agents, and employees free and harmless from any and all expense, cost or liability in connection with or resulting from the exercise of this Permit, including, but not limited to, property damage, personal injury, and wrongful death.

I certify that I am the owner of the above-described property, or the authorized representative of such owner, and that I furnished all of the above information and intend to construct/destroy the well as represented above. I understand that all work is to be done in accordance with Kern County Ordinance Code Chapter 14.08 and Bulletin 74-81 and the conditions of the Permit Application including any conditions which may be added or changed by the Environmental Health Services Department upon review of this Application and issuance of the Permit. I further understand that any permit issued pursuant to this application is subject to such further conditions as may be deemed necessary to insure compliance with the pertinent regulations.

Owner's Signature W M Howden for David Spring Date 3/31/95
North American Chemical Co.

Drilling Contractor Baldwin Drilling Co. Date 3/31/95

INTERNAL USE ONLY

Permit Approved:
Date:
Expiration Date:

Total Fee: 335.00 Date Paid: 3-31-95
Receipt # D481313 ☐ Cash ☒ Check (#2744)
Fee Received by: HOFF

ZONING

Zone: M-1
Access Approved: ☒ Yes ☐ No
Flood Plan Approval Required: ☐ Yes ☒ No

☐ APPROVED ☐ DISAPPROVED

BY: Evelyn Turner
DATE:

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

E-Log Required: ☐ Yes ☐ No

Gravel Chute Required: ☐ Yes ☐ No

REASONS FOR DENIAL OR CONDITIONS OF PERMIT:

THIS APPLICATION BECOMES A PERMIT WHEN APPROVED

Kern County
Environmental Health Services Dept.
2700 "M" Street, Suite 300
Bakersfield, CA 93301
Phone (805) 861-3636
FAX (805) 861-3429

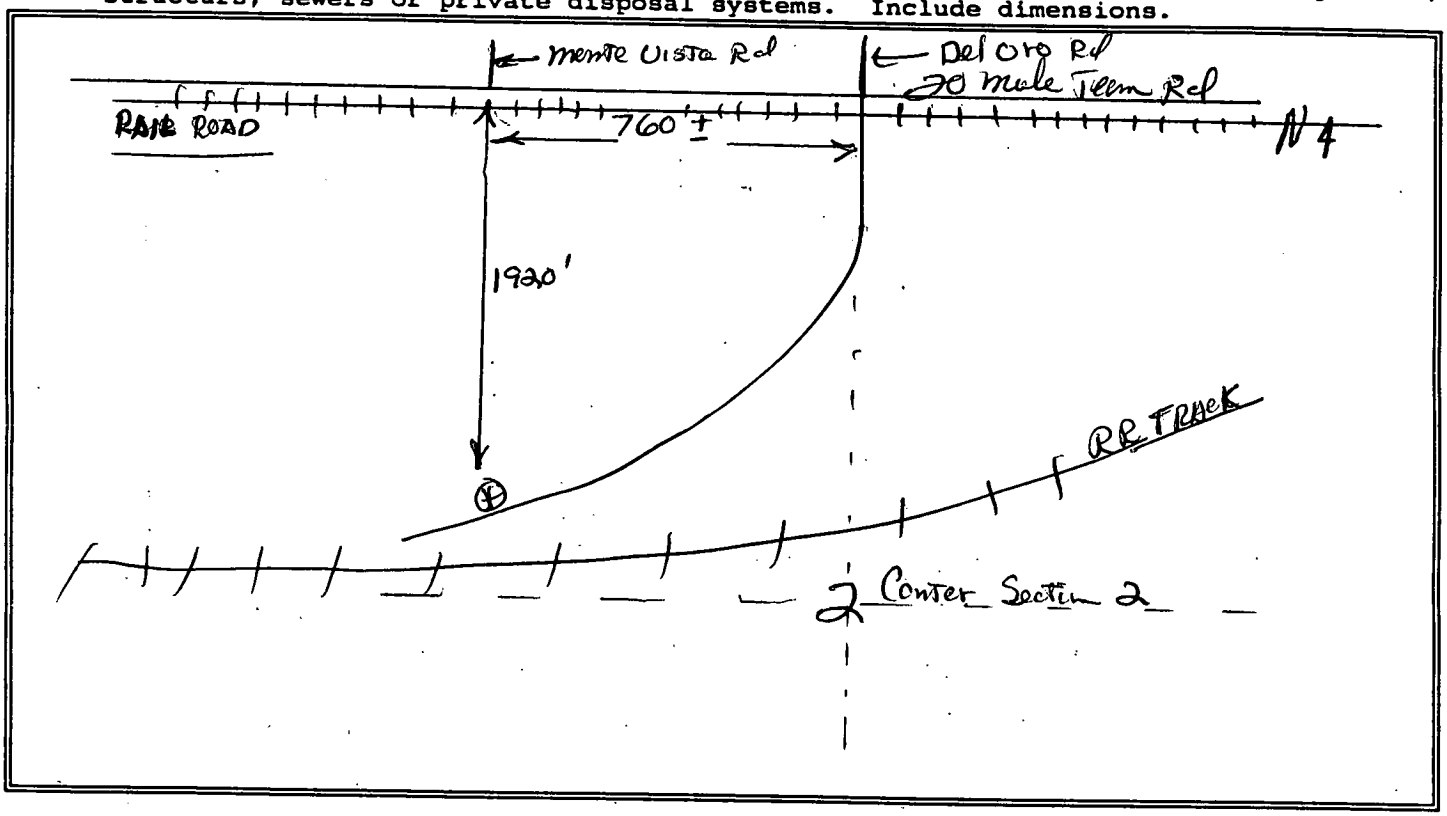
Parcel Map/Tract: _____

Parcel No.: _____

Assessor's Parcel No.: _____

LOCATION

A. Indicate below the exact location of well with respect to the following items: property lines, water bodies or courses, drainage pattern, roads, existing wells, structurs, sewers or private disposal systems. Include dimensions.



B. LOCATION OF WELL WITHIN SECTION LINES--Locate well by measuring from proposed site in relation to section lines or 1/2 section lines.

D	C	B	A
E	F ⊗	G	H
M	L Sec. No.	K	J
N	P	Q	R

1-_____ One Mile _____-1

NORTH AMERICAN CHEMICAL COMPANY
PLANT LOGISTICS

TO: TOM HARDY

FROM: DAVID GOINS

DATE: ~~4/21/96~~ ~~4/30/96~~ 5/13/96

SUBJECT: BORON WELL

Attached, pleaase find a copy of the water analysis from our well in Boron CA.

Please let me know what we need to do next. (619) 372-2259.

THANK YOU

These are the 2 additional tests.

3 pages
total

[redacted]

APR-26-96 FRI 11:15 AM CLINICAL LAB OF S.B. FAX NO. 9098257696 P. 03/03

SET UP TIME	HOURS
14:48	7
WERE HOLDING TIMES MET	
(YES)	NO

COLIFORM REPORT FORM

CLINICAL LABORATORY OF SAN BERNARDINO, INC.
P.O. BOX 329
SAN BERNARDINO, CA 92402

☐ Plate Count
☐ Colilert
☐ 10 Tube Method

Trona Railway

Date Report: 4-5-96 System Name: Boron Well (new well) System Number:

Laboratory: Clinica Laboratory of San Bernardino, Inc. ELAP #: 1088 Signature of Laboratory Director:

Date Sampled: 4/4/96 Sampler: Bob Wilhelm Employed By: NACC

Laboratory ID Number	Collection Time	Bottle Number	Site Name or Street Address	TOTAL FREE CHLORINE (mg/L)	Sample Type §	Total Coliform †	Fecal or E. coli	Plate Count per ml	Remarks
58	7:47am	1	Boron Well		4-W	P			

R = Routine
2 = Repeat
3 = Replacement
4 = Special

§ W = Well
D = Distribution System

† P = Present
A = Absent

Notification Required ? Yes ☐ No ☒

Testing is Conducted in Accordance With USEPA'S Guidelines 40 CFR Part 141 as Published in the Federal Register Vol 57, No. 112, Dated 10 Jun 1992

Phone #: Read By: Setup By:

Person Notified: Date Started: 4-4-96

Date/Time Notified: Date/Time Finished: 4-5-96 @ 15:00

SENT BY:NORTH AMERICAN CHEM CO; 5-13-96 ; 14:01 ; NACC PRP- 8805628701;# 3/ 3

COLIFORM REPORT FORM

CLINICAL LABORATORY OF SAN BERNARDINO, INC.
P.O. BOX 329
SAN BERNARDINO, CA 92402

SET UP TIME	HOURS
WERE HOLDING TIMES MET	
NO	YES

☐ Plate Count
☐ Coliform
☐ No Tube Ferm

System Name: Fontana: Kaiser Well (Kaiser Well)
System Number:
Signature of Laboratory Director: [illegible]
ELAP #: 1038
Sampler: Ted Lo/Tre/MM
Employed By: NACC

Collection Time	Bottle Number	Site Name or Street Address	TOTAL/FREE CHLORINE (mg/l)	Sample Type S	Total Coliform †	Fecal or E. coli	Plate Count
7:17am	1	Kaiser Well		R-W	A		

S = Source
R = Raw
E = Post Treatment
T = Storage

† P = Present
A = Absent

S W = Well
D = Distribution System

Notification Required ? Yes ☐ No ☒

Phone #:
Person Notified:
Date/Time Notified:

Read By: [illegible] Sent By: [illegible]
Date Started: 4-4-96
Date/Time Finished: 4-5-96 @ 1:00

Testing is Conducted in Accordance With USEPAS
40 CFR Part 141 as Published in the Federal
Register Vol 57 No 112 Dated 10 Jun 1992

SENT BY:NORTH AMERICA CHEM CO. ; 5-13-96 ; 14:01 ; NACC PRP-
8809868287O1 ; # 3/ 3

CLINICAL LABORATORY OF SAN BERNARDINO, INC.
21881 BARTON ROAD
GRAND TERRACE, CA 92313
RADIOACTIVITY ANALYSIS (4/95)

EX

Date of Report: 04/25/96
Laboratory Name: CLINICAL LABORATORIES OF SAN BERNARDINO
Name of Sampler:B.WILHELM
Date/Time Sample Collected: 96/04/04/0747
Sample ID No.M61540-1B
Signature Lab Director:
Employed By:N.A.C.C.
Date/Time Sample Received @ Lab: 96/04/04/1700
Date Analyses Completed: 96/04/22

System Name: TRONA RAILWAY
Name or Number of Sample Source: BORON WELL
System Number: 3600987

* User ID: 36C
* Date/Time of Sample: |96|04|04|0747| YY MM DD TTTT
* Submitted by:
Station Number:
Laboratory Code: 3761
Date Analysis Completed: YY MM DD |96|04|22|
Phone #:

MCL REPORT UNITS	CHEMICAL	STORET CODE	ANALYSES RESULTS	DLR
15 pCi/l	Total Alpha	01501		
pCi/l	Total Alpha Counting Error	01502		
50 pCi/l	Total Beta	03501		4.0
pCi/l	Total Beta Counting Error	03502		
20 pCi/l	Natural Uranium	28012	< 2.0	2.0
pCi/l	Natural Uranium Counting Error	A-028		
pCi/l	Total Radium 226	09501		.5
pCi/l	Total Radium 226 Counting Error	09502		
pCi/l	Total Radium 228	11501		.5
pCi/l	Total Radium 228 Counting Error	11502		
5 pCi/l	Ra 226 + Ra 228	11503		
pCi/l	Ra 226 + Ra 228 Counting Error	11504		
pCi/l	Total Radon 222	82303		100.0
pCi/l	Total Radon 222 Counting Error	82302		
20000 pCi/l	Total Tritium	07000		1.0
pCi/l	Total Tritium Counting Error	07001		
8 pCi/l	Total Strontium 90	13501		2.0
pCi/l	Total Strontium 90 Counting Error	13502		

SENT BY:NORTH AMERICA CHEM CO. 2 19-96 11 11 ACC PRP- 8808208208:# 5 6

CLINICAL LABORATORIES OF SAN BERNARDINO, INC.
2188 TARPEY ROAD
GRAND TERRACE, CA 92313
INDUSTRIAL/UTILITY ANALYSIS (8/96)

Date of Report: 04/SP/96
Laboratory
Name: CLINICAL LABORATORIES OF SAN BERN ARDINO, INC.
Name of Sampler:B.MICHAELM
Date\Time Sample
Collected: 96/04/04/0104

Sample ID No.M81540-LB
STANDARD LAB
Employee By:N.A.C.C.
Date\Time Sample
Received: 96\04\04\0100
Date Analyzed
Completed: 96\04\SS

System
Name: JHONN KAILWAY
Name or Number of Sample Source: BORON WELL
Number: 3600086

Sample
Date\Time of Sample: |96|04|04|0104|
YY MM DD TTTT
User ID: 96C
Submitted By:
Laboratory Code: 3A6T
Section Number:
YY MM DD
Date Analysis Completed: |96|04|SS|
Phone #:

	01S02S 01S01			
15 bCi\l Total Alpha				
	03S02S 03S01			
90 bCi\l Total Beta				
	S10BS A-0S8	<	0.5	0.5
25 bCi\l Natural Uranium				
	09S02S 09S01			
bCi\l Total Radium SSE				
	11S02S 11S01			
bCi\l Total Radium SS8				
	11S04 11S03			
5 bCi\l RA SSE + RA SS8				
	85S02S 85S01			
bCi\l Total Radon SSS				
	07S02T 07S00			
50000 bCi\l Total Tritium				
	13S02S 13S01			
8 bCi\l Total Strontium 90				

TEST	RESULTS	CODE	UNITS
		STORET	
		ANALYSES	
NCI REPORT	CHEMICAL	DUP	

NORTH AMERICAN CHEMICAL COMPANY
PLANT LOGISTICS

TO: TOM HARDY

FROM: DAVID GOINS

DATE: 4/21/96

SUBJECT: BORON WELL

Attached, pleaase find a copy of the water analysis from our well in Boron CA.

Please let me know what we need to do next. (619) 372-2259.

THANK YOU

Spoke with David Goins about the need for bact. & chemical on 4-23-96.

3 pages total

EX

CLINICAL LABORATORY OF SAN BERNARDINO, INC.
21881 BARTON ROAD
GRAND TERRACE, CA 92313

GENERAL MINERAL & PHYSICAL, & INORGANIC ANALYSIS (4/95)

Date of Report: 04/16/96 Sample ID No.M61540-1A
Laboratory Signature Lab
Name: CLINICAL LABORATORIES OF SAN BERNARDINO Director: Barb Stanley
Name of Sampler:B.WILHELM Employed By:NORTH AMERICAN CHEM.
Date/Time Sample Collected: 96/04/04/0747 Date/Time Sample Received @ Lab: 96/04/04/1700 Date Analyses Completed: 96/04/10

System Name: TRONA RAILWAY System Number: 3602598
Name or Number of Sample Source: BORON WELL

* User ID: 36C Station Number:
* Date/Time of Sample: |96|04|04|0747| (YY MM DD TTTT) Laboratory Code: 3761 (YY MM DD)
* Date Analysis Completed: |96|04|10|
* Submitted by: Phone #:

MCL	REPORTING UNITS	CHEMICAL	ENTRY #	ANALYSES RESULTS		DLR
	mg/L	Total Hardness (as CaCO3)	00900	248		
	mg/L	Calcium (Ca)	00916	68.8		
	mg/L	Magnesium (Mg)	00927	14.8		
	mg/L	Sodium (NA)	00929	363		
	mg/L	Potassium (K)	00937	6.70		
Total Cations		Meq/L Value: 20.6				
	mg/L	Total Alkalinity (AS CaCO3)	00410	210		
	mg/L	Hydroxide (OH)	71830	1.0	<	
	mg/L	Carbonate (CO3)	00445	1.0	<	
	mg/L	Bicarbonate (HCO3)	00440	257		
*	mg/L+	Sulfate (SO4)	00945	370		0.5
*	mg/L+	Chloride (Cl)	00940	341		
45	mg/L	Nitrate (as NO3)	71850	3.10		2.0
**	mg/L	Fluoride (F) Temp. Depend.	00951	0.900		0.1
Total Anions		Meq/L Value: 21.6				
	Std.Units+	PH (Laboratory)	00403	8.00		
***	umho/cm+	Specific Conductance (E.C.)	00095	2100		
****	mg/L+	Total Filterable Residue at 180C (TDS)	70300	1290		
	Units	Apparent Color (Unfiltered)	00081	5		
	TON	Odor Threshold at 60 C	00086	1		
	NTU	Lab Turbidity	82079	5.3		
0.5	mg/L+	MBAS	38260	0.02	<	

* 250-500-600 ** 1.4-2.4 *** 900-1600-2200 **** 500-1000-1500

Turb, Fe, Mn & Zn

INORGANIC CHEMICALS

M61540-1A

MCL	REPORTING UNITS	CHEMICAL	ENTRY #	ANALYSES RESULTS	DLR
1000	ug/L	Aluminum (Al)	01105	< 50.00	50.0
6	ug/L	Antimony	01097	< 6.00	6.0
50	ug/L	Arsenic (As)	01002	< 2.00	2.0
1000	ug/L	Barium (Ba)	01007	< 100.00	100.0
4	ug/L	Beryllium	01012	< 1.00	1.0
5	ug/L	Cadmium (Cd)	01027	< 1.00	1.0
50	ug/L	Chromium (Total Cr)	01034	< 10.00	10.0
1000	ug/L+	Copper (Cu)	01042	< 50.00	50.0
300	ug/L+	Iron (Fe)	01045	1350	100.0
	ug/L	Lead (Pb)	01051	< 5.00	5.0
50	ug/L+	Manganese (Mn)	01055	111	30.0
2	ug/L	Mercury (Hg)	71900	< 1.0	1.0
100	ug/L	Nickel	01067	< 10.00	10.0
50	ug/L	Selenium (Se)	01147	< 5.00	5.0
100	ug/L+	Silver (Ag)	01077	< 10.00	10.0
2	ug/L	Thallium	01059	< 1.00	1.0
5000	ug/L	Zinc (Zn)	01092	12400	50.0

ADDITIONAL ANALYSES

10000	ug/L	Nitrate + Nitrite as Nitrogen(N)	A-029	700	400
1000	ug/L	Nitrite as Nitrogen(N)	00620	< 400	400
200	ug/L	Cyanide	01291	< 100	100.0

+ Indicates Secondary Drinking Water Standards

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

STEVE McCALLEY, R.E.H.S., Director
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301
Phone: (805) 862-8700
FAX: (805) 862-8701

RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

February 27, 1996

NORTH AMERICAN CHEMICAL
P.O. BOX 367
TRONA, CA. 93592

Dear Well Applicant:

This is to advise you that your application for a permit to construct a(an) domestic well located on APN #244-040-07, T/R/S # 10N/08W/02-F, has been received and reviewed.

No additional conditions will be required at this time.

If you have any questions about your well, please contact our office at (805) 862-8700

Sincerely,

Steve McCalley, Director

By: Tom Hardy, R.E.H.S.
Environmental Health Specialist III
Water Quality Program

JL:TH:

ENCLOSURE

xc: ROTTMAN DRILLING CORP.
File EH-291-95

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

STEVE McCALLEY, R.E.H.S., Director
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301
Phone: (805) 862-8700
FAX: (805) 862-8701

RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

February 27, 1996

NORTH AMERICAN CHEMICAL
P.O. BOX 367
TRONA, CA. 93592

Dear Well Applicant:

Subject: Notice of Well Permit Application Expiration Date

Pursuant to Kern County Ordinance Code, Section 14.08.140, your permit application will expire on May 27, 1996.

In order to obtain final approval of your well prior to the application expiration date, the results of water quality analyses must be submitted to this Department. In addition, the surface slab and surface construction features must be inspected and approved. The required water quality analyses, slab and surface construction features are the responsibility of the property owner.

Once your permit has expired, you may be billed at the current hourly rate (presently $80.00/hour) for the time required to review water quality and travel time to and from the site to conduct inspections on slab and surface construction features. Final approval of your well is contingent on water quality, approval of slab and surface construction features and payment of all costs incurred after the permit expiration date.

Inspections for surface construction features are made by appointment only. To arrange for an appointment, please contact this office at (805)862-8700.

If you cannot place your well in service within 90 days, please contact this Department at the above number.

Sincerely,

Steve McCalley, Director

By: Tom Hardy R.E.H.S.
Environmental Health Specialist III
Water Program

PB:TH
xc: File EH-291-95

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

STEVE McCALLEY, R.E.H.S., Director
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301
Phone: (805) 862-8700
FAX: (805) 862-8701

RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

February 28, 1996

North American Chemical
P. O. Box 367
Trona, CA 93592

Re: T10N, R08W, Section 02

Dear Well Applicant:

As required by Kern County Ordinance Code G-5006, Section 14.08.330, water from all new domestic wells shall be tested both bacteriologically and chemically by a state-certified laboratory. In order to evaluate your water quality, the following water analyses are still needed:

- x Satisfactory bacteriological analysis
- x Chemical analysis, including general mineral, general physical, and inorganic chemicals
- ___ DBCP/EDB analysis
- x Uranium analysis

Please submit the required analyses as soon as possible. If the analyses have already been completed, please request the laboratory performing the analyses to send a copy to this office.

If you have any questions, please contact me at (805) 862-8768.

Sincerely,

Steve McCalley, Director

By: Thomas Hardy, R.E.H.S.
Environmental Health Specialist III
Water Quality Program

TH:cas
cc: file
\hardy\american.w32

To: Tom Hardy

From: David Goins (619) 372-2259
NACC 619 372-2420 FAX
New Project Manager

Here is the correspondance you requested.

Let me know if you need anything else.

Thanks

Dave Goins

4 pages to fax

North American Chemical Company
P.O. Box 367, Trona, California 93592-0367

April 24,1995

Mr. Wayne E. Tyson
Manager of Contracts
The Atchison, Topeka and Santa Fe Railway Company
Asset Management Department
920 Southeast Quincy
Topeka, Kansas 66612

Ref: Contract 185955
File 11025779
Track No.4, Boron, CA
Water well

Dear Mr. Tyson:

With regard to the subject site, North American Chemical Company has installed certain facilities for the purposes of transloading soda ash from trucks to railcars. In as much the Company has continued to load and ship from this site and now plans to continue installing structures and utilities to improve and enhance the operation.

The Company recently completed drilling a test well to determine if water would be available for use at the site since the nearest waterline is over half a mile away. The tests proved that a source is available that can adequately supply the onsite needs for sanitary use and fire storage, estimated at 750 gallons per day. In order to complete and operate the well to meet the standards of the Kern County Environmental Health Department they require a letter of approval from the property owner(Santa Fe Railway Company) authorizing the well.

Per your recent discussion with Mr. Warren McGowan and pursuant to paragraph 14.0 of the subject Lease agreement we respectfully request that you approve the use of the well for the intended purpose and prepare the requested letter of approval.

Sincerely Yours,
North American Chemical Company
Logistics

David Springmeyer,
Superintendent Materials Handling

DS/wfm

100% Recycled Paper

Responsible Care
A Public Commitment

THE ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY

One Santa Fe Plaza
920 Southeast Quincy Street
Topeka, Kansas 66612-1116

P.O. Box 1738
Topeka, Kansas 66601-1738

June 9, 1995

11025779

North American Chemical Company
P. O. Box 367
Trona, CA 93592-0367

Attn: Mr. David Springmeyer
Superintendent Materials Handling

Gentlemen:

This will acknowledge receipt of your letter request of April 24, relative to your Lease of Land and Trackage agreement with Santa Fe, identified as Contract No. 185955 dated November 20, 1992, covering use/lease of Santa Fe's property at Boron, California; with particular regard to Section 14 therein documenting this lease does not grant, convey or transfer any right to the use of water under any water right owned or claimed by Santa Fe, which may be appurtenant to or otherwise associated with the leased property.

In accordance with your having already completed drilling a test well, and your company's need for water therefrom for sanitary use and fire storage, estimated at 750 gallons per day, Santa Fe would be agreeable to this request with the understanding Santa Fe reserves the right to review and regulate such usage amounts. At this time, Santa Fe does not anticipate charging North American Chemical Company for their sanitary and fire storage water use requirements at Boron. However, in the future if Santa Fe determines that water usage charges are necessary, Santa Fe will furnish North American Chemical Company 90 days' written notice, which charges will not exceed $5.00 per 1,000 gallons.

Please acknowledge your understanding and acceptance by executing both copies of this letter agreement and return the duplicate copy to the undersigned for our placement with this contract as supplement thereto.

Should you have any questions whatsoever relative to this matter, please do not hesitate to contact Wayne Tyson of my staff for assistance at (913) 435-2152.

Sincerely,

E R Spangler

E. R. Spangler
Assistant Director-Asset Management
11025779.855/2152

ACKNOWLEDGED AND ACCEPTED:

NORTH AMERICAN CHEMICAL COMPANY

By _____

Title Director - Plant Logistics

North American Chemical Co. submitted an application to drill a domestic well on or about march 31, 1995. Upon checking ownership of parcel, it was found that North American leases the property from Dora Land Co. which is owned by Santa Fe Railway. Several phone calls were made to Warren McGowan of North American Chemical Co. who was working with Santa Fe Railroad. The well was put on hold until the OK was received from the owner. Apparently the driller was unaware of all the legalities surrounding this well as the permit was routed to EH from mojave (long mail time) and began to drill as soon as permit was taken out in mojave. EH got a request for a seal inspection from Rottman Drilling. Because the well was drilled out of a not knowing and not willful violation, and because the ownership matter was long prior to being settled, and because the hole could not be left open that long, our Dept. agreed to the seal. Bert Thurston witnessed the seal on 4-12-95.

185955

Pre-Approved Form
by General Counsel

File 11025779
Contract 185955

~~Santa Fe Original~~

LEASE OF LAND AND TRACKAGE

THIS LEASE, made as of the 20th day of November, 1992, between THE ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY, a Delaware corporation (hereinafter called "Lessor"), and NORTH AMERICAN CHEMICAL CORPORATION (hereinafter, whether one party or more, called "Lessee").

WITNESSETH, That the parties hereto for the considerations hereinafter expressed covenant and agree as follows:

1. Lessor hereby leases to Lessee, subject to the rights and easements hereinafter excepted and reserved, and upon the terms and conditions hereinafter set forth, the land, together with those portions of tracks located thereon, Nos. 4 (hereinafter called "Premises"), situated at or near Boron, State of California, as described or shown on the print hereto attached, No. 5-03365, dated July 14, 1993, marked "Exhibit A" and made a part hereof.

2. (a) To have and to hold the Premises, unless this Lease shall be earlier terminated as hereinafter provided, for a term (hereinafter called "Primary Term") of ten (10) years, beginning 1 Jan 1993, and ending 31 Dec 2002, and continuing after the expiration of the Primary Term as herein provided.

(b) Lessee shall have and is hereby given an option to lease said Premises for a Second Term of ten (10) years, a Third Term of ten (10) years and a Fourth Term of six (6) years, (hereinafter referred to as "Second Term", "Third Term" and "Fourth Term"), exercisable only by written notice to Lessor at least six (6) months prior to the end of the then current term, upon the same terms and conditions as the Primary Term. Said option shall be exercisable only if at the time of exercise, Lessee is not in default under any of its obligations hereunder and Lessor agrees to continuance.

3. Lessor hereby excepts and reserves the right, to be exercised by Lessor and by any others who have obtained or may obtain permission or authority from Lessor so to do, (a) to operate, maintain, renew and relocate any and all existing pipe, power, and communication lines and appurtenances and other facilities of like character upon, over or under the surface of the Premises; and (b) from time to time to construct, operate, maintain, renew and relocate such additional facilities of the same character as will not unreasonably interfere with the use of the Premises by Lessee for the purpose specified in Section 5 hereof.

4. Lessee shall pay to Lessor for the use of the Premises rental as follows:

(a) Subject to Subsection 4(c) below, the base rent shall be Six Thousand One Hundred and No/100 Dollars ($6,100.00) payable for convenience only annually in advance without demand. Said base rent shall be adjusted annually in accordance with Subsection 3(b) below. Rent for any fractional month at the beginning or end of the lease term shall be prorated. Rent is due and owing on or before the date this Lease commences and thereafter shall be payable on or before the first day of each year during the lease term. Upon termination of this Lease, unless Lessee is then in default, any unearned portion of said rental, paid in advance, will be refunded to Lessee upon written demand by Lessee therefor made within thirty (30) days following termination.

(b) Commencing on the first annual anniversary of the first day of the first full calendar month of the lease and all annual anniversaries of such date thereafter, the base rental shall be adjusted in accordance with the changes in the Consumer Price Index indicated in the column for Urban Wage Earners and Clerical Workers, U.S. city average (hereinafter called the "Index"), published by the Bureau of Labor Statistics, U.S. Consumer Price Index from the base index number to the current index number.

The index number indicated in the column for Urban Wage Earners and Clerical Workers, entitled "all items", for the period most recently released prior to the anniversary date in the previous calendar year, shall be the "base index number" and the corresponding index number for the period most recently released prior to the annual anniversary of this Lease shall be the "current index number". The current index number shall be divided by the base index number, to form the rental adjustment factor.

The new base rent shall be determined by multiplying the then current base rent by the rental adjustment factor and this figure shall be rounded to the nearest $1.00. The new base rent, as so determined, shall be due and payable in accordance with Subsection 3(a) above. In no event, however, shall such new base rent be less than the then current base rent.

If publication of the Consumer Price Index shall be discontinued, the parties hereto shall thereafter accept comparable statistics on the cost of living for Urban Wage Earners and Clerical Workers, as they shall be computed and published by an agency of the United States or by a responsible financial periodical of recognized authority then to be selected by the Lessor. In the event of (1) use of comparable statistics in place of the Consumer Price Index as above mentioned, or (2) publication of the Index figure at other than quarterly intervals, there shall be such revisions as the circumstances may require to carry out the intent of this provision. Lessor may, at its sole discretion and in conjunction with its overall rental adjustment program, use index numbers in the column for All Urban Consumers, U.S. city average, entitled "all items", or such similar index that may be published in the future to indicate statistics comparable to the indexes named above.

(c) The base rental shall be subject to revision at three-year intervals to adjust same to a fair market value basis.

5. Lessee shall use the Premises exclusively as a site for construction of a transloading facility to load boron, soda ash, potash/sodium sulfate and other non-hazardous materials onto railcars (to be off-loaded from trucks onto conveyors which will deposit the materials in railcars).

6. If access roadway to and from the Premises shall be required by use of Lessor's property adjacent to the Premises, such use is hereby granted, on a non-exclusive basis, by Lessor to Lessee. However, Lessor shall have the right, to be exercised at any time, to designate the location or route to be used for such purpose. For the purpose of this Lease, said access roadway route, whether specifically defined or not, shall be and is included under the definition of Premises. Lessee shall maintain, at its sole expense, satisfactory to Lessor, said access roadway; unless Lessor determines said non-exclusive usage is sufficient to warrant shared maintenance costs in which case Lessor shall determine proportionate shares of maintenance costs.

7. (a) Lessee has examined the Premises and accepts the use and occupancy thereof with full knowledge of their condition, and shall observe and comply with any and all laws, ordinances or governmental regulations relating to the use and maintenance of the Premises.

(b) Lessee does hereby guarantee that upon termination of this Lease, for any reason whatsoever, Lessee will remove all Lessee-owned and installed improvements and/or personal property from the Premises and restore said Premises to a reasonably level and cleared condition, satisfactory to Lessor.

(c) Lessee shall make no change or alteration in nor additions to Premises without first obtaining the written consent of Lessor, such consent not to be unreasonably withheld or delayed.

(d) Lessee shall pay any and all charges for water, gas, sewer, heat, light, power and telephone service and all other services supplied to or used on Premises or available, assessed or taxed to Premises. Lessee agrees that Lessor shall not be required to furnish to Lessee any water, gas, sewer, heat, light, power or telephone service or any other facilities, equipment, labor, materials or services of any kind whatsoever.

8. (a) Lessee shall pay, before the same become delinquent, all taxes, charges, rates, and assessments which may, during the term of this Lease, be levied upon, or assessed against, or be equitably chargeable to or assessed in respect of the Lessee-owned Improvements; and where any such tax, rate, charge, or assessment may be embraced in the general amount of taxes charged upon the Premises separately or in connection with other property of Lessor, and Lessor shall pay all of said taxes, then Lessee shall promptly refund to Lessor the amount or part of the tax, charge, rate or assessment equitably or fairly apportionable to the Lessee-owned Improvements.

(b) In addition to the taxes specified above, Lessee shall pay to Lessor any privilege, sales, gross income or other tax (not including federal or state income Tax) imposed upon the rentals received by Lessor by any agency having the authority so to do.

9. (a) Lessee agrees to keep the Premises and all Lessee-owned Improvements thereon free from rubbish and in a neat and safe condition, satisfactory to Lessor. Lessee shall maintain, at Lessee's sole cost and expense, in good condition and repair, satisfactory to Lessor, all Lessee-owned Improvements upon said Premises. The Premises and Lessee-owned Improvements thereon shall not be used for displaying signs and notices other than those connected with the business of Lessee contemplated by this Lease. Such notices and signs shall be neat and properly maintained. Lessor shall have the right to enter the Premises at reasonable times to inspect the same.

(b) Lessee shall not use or permit the use of the leased premises in any manner that will tend to create waste or a nuisance. Lessor agrees that the truck and other vehicle traffic that will result from Lessee's operation shall not be deemed to be a nuisance. In using the Premises, and in constructing, maintaining, operating and using the Lessee-owned Improvements thereon, Lessee shall comply with any and all requirements imposed by federal or state statutes, or by ordinances, orders or regulations of any governmental body having jurisdiction thereover, including, but not limited to, building and zoning ordinances, restricting or regulating or prohibiting the occupancy, use or enjoyment of the Premises or regulating the character, dimensions or locations of any Lessee-owned improvements on the Premises. Should any governmental body having jurisdiction in the matter require Lessor to dedicate, restrict or otherwise encumber any portion of the Premises or any of its adjoining property, as a condition to approval of Lessee's use of the Premises, Lessor may, if said condition is unacceptable to Lessor, terminate this Lease. Lessee covenants to properly notify Lessor accordingly should any of the above occur.

10. (a) Lessee shall indemnify and hold harmless Lessor for any claim, loss, damage, expense or injury, including death, arising out of any act or omission of the Lessee, its employee or agents, to the person or property of the parties hereto and their employee, and to the person or property of any other public body, individual, partnership, corporation, or other legal entity while on or about the Premises or while exercising any right or performing any obligation, pursuant to this Agreement, except to the extent that the claim, loss, damage, expense, death, or injury is due to the negligence of Lessor, its officers, agents, or employee.

Rev. 8/24/92 (1616M-TRK)
3114V

(b) Lessee shall indemnify and hold harmless Lessor from any liability or claimed liability arising under the Federal Employees Liability Act (45 U.S.C. §51 et. seq.) to the extent any incident is caused, wholly or in part, by property, equipment, fixtures or condition belonging to or under the control of Lessee.

11. (a) In further consideration of the rental to be paid by Lessee to Lessor herein contained, Lessor agrees that Lessee may during the life of this Lease receive service upon those portions of tracks located on the Premises, shown on the Exhibit "A" print attached hereto, it being understood and agreed that Lessor shall have the full right to use said tracks for other than the purposes of serving Lessee, provided such other use does not unreasonably interfere with use of the track for the purpose specified in Section 5.

(b) Lessee shall pay to Lessor, from time to time, within thirty (30) days after bills are rendered therefor, the entire cost of maintaining and renewing that portion of the tracks, located on the Premises shown on the Exhibit A print attached hereto, the Lessor to be the judge of the necessity for and character of maintenance required on the tracks.

(c) The title to those portions of tracks located on the Premises, and to all property furnished in the maintenance thereof, shall be in Lessor.

12. (a) Lessee shall strictly comply with any and all statutes, ordinances, rules, orders and judgments of all governmental bodies having jurisdiction in the State in which the tracks under Lease are located, governing side clearances and overhead clearances from railroad tracks in that State.

(b) In the event Lessee desires to install any gates across and adjacent to the tracks, or to install a track scale, unloading pit, loading or unloading device, adjustable loading docks or doors at warehouses, or any other structure which will impair the required clearances along the tracks, Lessee shall first secure any and all required authority from the State or other governmental body or agency having jurisdiction, prescribed by statute or Order of competent public authority, and shall furnish Lessor with a copy of such Order approving installation of the facility which will impair required clearances. Lessee shall submit to Lessor the plans and specifications for such facilities, and shall secure Lessor's written approval thereof before construction of such facilities is undertaken, such approval not to be unreasonably withheld or delayed.

Rev. 8/24/92 (1616M-TRK)
3114V

(c) Lessee shall install, use and maintain all facilities described in subsection (b) of this Section, at its sole cost and expense, in such a manner and of such materials, satisfactory to Lessor, and as will not at any time be a source of danger to or interference with the safe operations by Lessor on the tracks and on its railroad. Gates across the tracks shall be opened whenever necessary to enable Lessor to operate over the tracks. Unloading pits shall be securely covered when not in actual use and at all times when the tracks are being switched. Doors shall be firmly secured, and adjustable loading docks at warehouses shall likewise be securely fastened in an upright position when not in actual use and at all times when the tracks are being switched. During installation and when using and repairing these facilities, Lessee shall exercise due diligence to prevent damage to property of Lessor or injury to its agents or employes.

(d) Vertical and horizontal clearances from the tracks at entrances to buildings, and such clearances from the tracks for the facilities referred to in subsection (b) of this Section, shall conform with those specified in the Order authorizing such reduced clearances along the tracks.

(e) Notwithstanding any provision of Section 9 of this Lease, Lessee shall indemnify and save harmless Lessor from any and all claims, loss, damage or expense for loss of or damage to property, including without limitation, the facilities described in subsection (b) of this Section, and injury to or death of persons, including without limitation, employes and agents of Lessor, arising out of the breach or alleged breach by Lessee of the obligations of this Section or resulting in any manner from the construction, installation, maintenance, use, state of repair, presence or removal of such facilities along, under, across and adjacent to the tracks, except to the extent caused by the negligence or alleged negligence of Lessor, its agents, or employes, or otherwise. Lessee shall promptly upon receipt of bill pay to Lessor the full amount of any loss or damage that Lessor may sustain, incur or become liable for, and all sums which Lessor may pay or be compelled to pay in settlement of any claims on account thereof. Lessee shall also reimburse Lessor for any money which Lessor has paid as a result of a violation or alleged violation by Lessee of any statute, ordinance, rule, order or judgment referred to in this Section.

13. Lessee shall comply with all statutes, ordinances, rules, regulations, orders and decisions (hereinafter referred to as "Standards"), issued by any federal, state, or local governmental body or agency established thereby (hereinafter referred to as "Authority") relating to Lessee's use of the Premises. In its use of the Premises Lessee shall at all times be in full

Rev. 8/24/92 (1616M-TRK)
3114V

compliance with all Standards present or future set by any Authority, including but not limited to Standards concerning air quality, water quality, noise, hazardous substances and hazardous waste. In the event Lessee fails to be in full compliance with Standards set by any Authority, Lessor may after giving reasonable notice of the failure to Lessee, and Lessee, within 30 days after such notice fails either to correct such noncompliance or to give written notice to Lessor of its intent to contest the allegation of noncompliance before the Authority establishing the Standard or in any other proper form, take whatever action is necessary to bring the Premises into compliance. Lessee shall reimburse the Lessor for all costs (including but not limited to consulting, engineering, clean up and disposal costs and legal costs) incurred by Lessor in complying with such Standards, and also such costs incurred by Lessor in abating a violation of such Standards, protecting against a threatened violation of such standards, defending any claim of violation of such standards in any proceeding before any Authority or court, and paying any fines or penalties imposed for such violations.

(a) In case of a breach of the obligations contained in this Section relating to "hazardous waste" and "hazardous substance", except for the sole negligence or alleged negligence of Lessor, Lessee agrees to assume liability for and to save and hold harmless Lessor from and against all claims for injuries to any person or damage to property including without limitation, employees and property of the Lessor and Lessee, and all related expenses including without limitation attorney's fees, investigator's fees, litigation expense, resulting in whole or in part from Lessee's failure to comply with any Standard issued by any governmental authority concerning "hazardous substances" and/or "hazardous waste". Lessee at its cost shall assume the defense of all claims, suits or actions brought for damages, and fines or penalties hereunder, regardless of whether they are asserted against Lessor or Lessee. Lessee also agrees to reimburse Lessor for all costs of any kind incurred as a result of Lessee's failure to comply with this Section, including but not limited to fines, penalties, clean up and disposal costs, and legal costs incurred as a result of Lessee's generating, handling, transporting, treating, storing for a period more than 30 days, or disposing of "hazardous waste" or "hazardous substances" on the Premises.

It is understood and agreed that a Lessee which does not now or in the future, generate, handle, transport, treat for more than 30 days, or dispose of "hazardous waste" or "hazardous substances" within the meaning of this subsection (a) is not subject to the provisions of this Section 12 hereof. It is further understood that the Lessee is not responsible for clean up costs of any "hazardous waste" and/or "hazardous substances" or contamination resulting therefrom which occurred prior to Lessee's occupancy or use of the Premises.

(b) In case of a breach of Standards concerning air quality, water quality or noise, Lessee shall assume liability for and save and hold harmless the Lessor from any claim of a violation of such Standards regardless of the nature thereof or the Authority or person asserting such claim which results from the Lessee's use of the Premises, except to the extent the claim results from the negligence of the Lessor. Lessee at its cost shall assume the defense of all such claims regardless of whether they are asserted against the Lessor or Lessee.

14. This Lease does not grant, convey or transfer any right to the use of water under any water right owned or claimed by the Lessor which may be appurtenant to or otherwise associated with the Premises. All right, title, and interest in and to such water is expressly reserved unto the Lessor, its successors and assigns, and the right to use same or any part thereof may be obtained only by the prior written consent of the Lessor.

15. Upon written notice from Lessor, Lessee agrees to assume the defense of any lawsuit, administrative action or other proceeding brought against Lessor by any public body, individual, partnership, corporation, or other legal entity, relating to any matter covered by this Agreement for which Lessee has an obligation to assume liability for and/or save and hold harmless Lessor. Lessee shall pay all the costs incident to such defense including, but not limited to, attorneys' fees, investigators' fees, litigation expenses, settlement payments, and amounts paid in satisfaction of judgments. Any and all lawsuits or administrative actions brought or threatened on any theory of relief available at law, in equity or under the rules of any administrative agency shall be covered by this Section including, but not limited to, the theories of intentional misconduct, negligence, breach of statute or ordinance, or upon any theory created by any statute or ordinance, state or federal.

(a) This Lease is given without warranty of title of any kind, express or implied and no covenant of warranty of title shall be implied from the use of any word or words herein contained.

(b) In case of eviction of Lessee by anyone owning or claiming title to or any interest in Premises, Lessor shall not be liable to Lessee for damage of any nature whatsoever or to refund any rental paid hereunder, except the proportionate part of any rental paid in advance.

~~17. (a) If Lessee shall, for a consecutive period of one year, fail to generate 1,500 railcar shipments to or from the Premises, or if Lessee shall fail or refuse to perform or comply with any of the covenants and agreements of Lessee herein contained and such failure shall reoccur within sixty (60) days after Lessor shall have given written notice thereof to Lessee, Lessor may at its option terminate this Lease by serving five (5) days' written notice of termination upon Lessee, but any waiver by Lessor of any default or defaults shall not constitute a waiver of the right to terminate this Lease for any subsequent default or defaults which may occur.~~

See page 9a

(b) This Lease shall terminate on the last day of the Primary Term, Second Term, Third Term, or Fourth Term, if [1] Lessee does not request renewal pursuant to Subsection 2(b), or [2] if Lessor provides notice of termination by serving thirty (30) days' notification, irrespective of any requests for renewal by Lessee under Section 2(b). Upon the expiration of the time specified in such notice, this Lease and all rights of Lessee hereunder shall absolutely cease and determine; but upon any such termination, Lessee shall be entitled to have refunded by Lessor a proportionate part ~~of any rentals paid in advance.~~

18. Lessee acknowledges that Lessor utilizes the rental collection system involving direct deposit of monies received through financial institution selected by Lessor, which precludes Lessor's ability to exercise rejection of a rental payment before Lessee's check is cashed. Lessee agrees that as a condition of Lessor granting this Lease, Lessee hereby waives any right it may have under law to force continuation of this Lease due to Lessor having accepted and cashed Lessee's rental remittance. Lessor shall have the option of rejecting Lessee's payment by refunding to Lessee the rental amount paid by Lessee, and enforcing the termination provisions contained herein.

19. Any notice to be given by Lessor to Lessee herein, and any notice to be given by Lessee to Lessor herein, shall be deemed to be properly served if it be deposited with the United States Postal Service, or its successor, or other universally acceptable mailing service, postage prepaid, addressed to the other party or parties hereto, at the addresses shown beneath signature of the respective parties hereto, or to such other address as the parties hereto may from time to time designate.

17(a). If Lessee shall (i) fail to generate an average of 1,500 railcar shipments to or from the Premises per annum for any period of five consecutive years, or (ii) fail or refuse to perform or comply with any of the covenants and agreements of Lessee herein contained and such failure shall continue for a period of sixty (60) days after Lessor shall have given written notice thereof to Lessee, Lessor may at its option terminate this Lease by serving five (5) days' written notice of termination upon Lessee; provided, however, that in the event any such failure by Lessee as hereinabove described shall be due to an act or acts of God, strikes, lockouts, wrecks, mechanical breakdowns in equipment or facilities of Lessor, or the action of any government or national or international organization, then such failure by Lessee shall not be deemed a default under this paragraph, and Lessor shall not have the right to terminate this Lease on account thereof. Any waiver by Lessor of any default or defaults of Lessee shall not constitute a waiver of the right to terminate this Lease for any subsequent default or defaults which may occur.

(b). This Lease shall terminate on the last day of the Primary Term, Second Term, Third Term or Fourth Term (i) if Lessee has failed to provide Lessor with notice of Lessee's election to extend the term of this Lease pursuant to Subsection 2(b), or (ii) if, Lessee having provided notice of its election to extend the term of this Lease as aforesaid, Lessee shall have failed to generate an average of 1,500 railcar shipments for the last five (5) years of the then current term and Lessor shall then give notice to Lessee of Lessor's exercise of its right to terminate this Lease pursuant to clause (i) of Subsection 17(a) above. Upon the expiration of the time specified in any notice of termination given by Lessor to Lessee, this Lease and all rights of Lessee hereunder shall absolutely cease and determine; but upon any such termination, Lessee shall be entitled to have refunded by Lessor a proportionate part of any rentals paid in advance.

20. Upon the termination of this Lease in any manner herein provided, Lessee shall forthwith surrender to Lessor the possession of the Premises and shall remove the Lessee-owned Improvements and all personal property, and restore the Premises to substantially the state in which they were prior to the construction of the Lessee-owned Improvements, and in case Lessee shall fail within ninety (90) days' after the date of such termination to make such removal or restoration, then Lessor may, at its election to be exercised within one hundred twenty (120) days' thereafter, either remove the Lessee-owned Improvements and all or any part of any personal property and restore the Premises for the account of Lessee, and in such event Lessee shall, within thirty (30) days' after the rendition of bill therefor, reimburse Lessor for the cost so incurred, or may take and hold the Lessee-owned Improvements and all or any part of any personal property as its sole property.

21. If Lessee fails to surrender to Lessor the Premises, upon any termination of this Lease, all the liabilities and obligations of Lessee hereunder shall continue in effect until the Premises are surrendered; and no termination hereof shall release Lessee from any liability or obligation hereunder, whether of indemnity or otherwise, resulting from any acts, omissions or events happening prior to the date of termination or the date, if later, when the Lessee-owned Improvements are removed and the Premises restored or Lessor elects to take and hold the Lessee-owned Improvements as its sole property as referred to in previous Section.

22. In the event that Lessee consists of two or more parties, all the covenants and agreements of Lessee herein contained shall be the joint and several covenants and agreements of such parties.

23. Neither Lessee, nor the heirs, legal representatives, successors or assigns of Lessee, nor any subsequent assignee, shall underlease or sublet the Premises or the Lessee-owned Improvements, or any part thereof, nor assign or transfer this lease or any interest herein, without the written consent and approval in each instance of Lessor.

24. All the covenants and agreements of Lessee herein contained shall be binding upon the heirs, legal representatives, successors and assigns of Lessee, and shall inure to the benefit of the successors and assigns of Lessor.

IN WITNESS WHEREOF, this Lease has been duly executed, in duplicate, by the parties hereto as of the day and year first above written.

THE ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY
Asset Management Department
P. O. Box 1738
Topeka, Kansas 66601-1738

By W E Tyson

Title Manager of Contracts

(Lessor)

NORTH AMERICAN CHEMICAL CORPORATION
8300 College Boulevard
Overland Park, Kansas 66210

By Larry Monaghan

Title Director Logistics

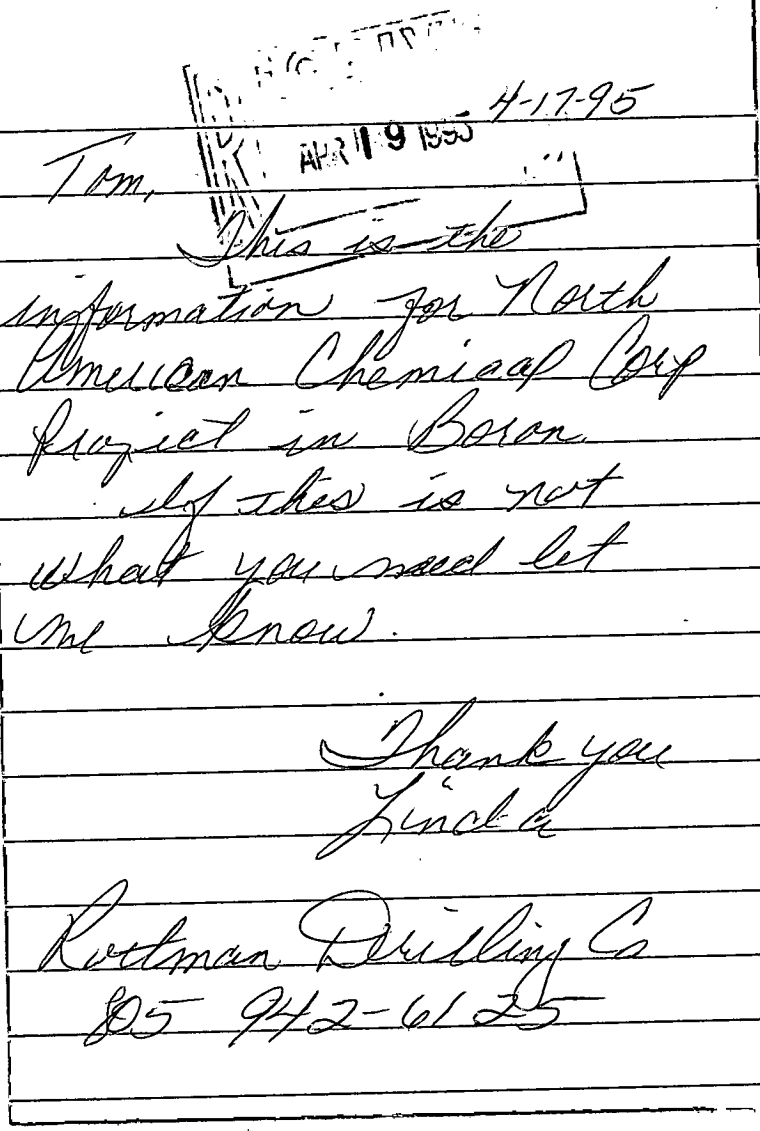
(Lessee)

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
COMMENTS TO FILE

FILE NAME: _____ **PERMIT NUMBER:** _____

DATE	COMMENTS	E.H.S.
4-26-93	Spoke w/ Warren McGowan. Evidentally, the RR owns Dora Land Co. The North Amer. Chemical Co. has sent a letter to Santa Fe requesting a letter of authorization to drill a well according to #14 on lease agreement.	

W80



4-17-95

Tom,

~~This is the~~
information for North
American Chemical Corp
project in Boron
~~If this is not~~
what you need let
me know.

Thank you
Linda

Rodman Drilling Co
805 942-6125

```
244-040-07-00-1 Roll 1 CURRENT YEAR          94 STATUS - ACTIVE
Area Code 098-013  Name DORA LAND                    Deed 06623-1289 01/27/92
801 cd 92351 SD 2
Use 30100 CV 92141 Notf P O BOX 931
KTX                    WESTMINSTER CA 92684
Census             Bill P O BOX 931
Coord                  WESTMINSTER CA 92684
Zoning             Site PTN NW1/4                                      S-CD
                       L/S    2 B/TP  10 TR/RG     8 Acres   155.00 CP

*** VALUES ***  Mineral       Land  Imprvmnts Other Imps  Pers/Prop  Exemptions
     Market                 53,060

                              N E T  A S S E S S E D  V A L U E          53,060
VALUES CHANGED  05/20/92
***** TAX INFORMATION *****                      Taxes      Penalty   Delinq Amt
Bill No. 94-192731-00-0              1st        290.28        29.02       319.30
Gen Rate 1.094155 Amt       580.55   Bth when first is delinquent         609.57
Spc Rate          Amt                2nd        290.27        39.02       329.29
    Special Asmnt Amt                Bth        580.55                    648.59
                                          1st Paid 12/12/94 2nd Paid 00/00/00

Enter parcel number 244 040 07 00 1 File - C   EVENT-  01
      24-22     SA        MW        KS        IM       II S1 S10A1660 KB
```

Dora Land is owned by Santa Fe RR

PHONE MEMO

TO Tom	DATE 11/5	TIME 9	AM / PM
FROM Warren	AREA CODE 619		
OF No. American Chemical Co	NO. 372-2202 EXT.		

MESSAGE: He needs the name of property owner

SIGNED

PHONED ☐ | CALL BACK ☒ | RETURNED CALL ☐ | WANTS TO SEE YOU ☐ | WILL CALL AGAIN ☐ | WAS IN ☐ | URGENT ☐

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Sold by:

CAL-CITY CONCRETE
RIDGECREST CONCRETE
BISHOP CONCRETE

DIVISIONS OF CAL-CI-CO ROCK CO., INC.

No. 79402 A

4/11/1995

WEIGHED AT ☒
CALIFORNIA CITY
7900 MOSS AVE.
CALIF. CITY, CA 93505
619-373-4815

WEIGHED AT ☐
BISHOP
5 BRIDGES RD.
BISHOP, CA 93514
619-872-4689

WEIGHED AT ☐
MOJAVE
140 HWY. 58
MOJAVE, CA 93501
805-824-2207

WEIGHED AT ☐
RIDGECREST
2157 INYOKERN RD.
RIDGECREST, CA 93555
619-446-6571

OTHER ☐

SOLD TO National Drilling 11-26

MAIL ADDRESS

JOB ADDRESS Kile Dixon EH-291-95

DELIVERY INSTRUCTIONS

THIS LOAD CONTAINS	SACK CONT	MIX DESIGN	CASH	CHRG	JOB NUMBER	P.O. NUMBER
2 CUBIC YARDS	10	5½	○	⊗		

TOTAL YARDS ON JOB	SAND LBS.	GRAVEL LBS.	GRAVEL LBS.	CEMENT LBS.	FLYASH
2				TYPE 2 / TYPE 5	%

LOAD NUMBER	WATER IN GALLONS	ADDED AT PLANT	IN AGGREGATE	ADDED AT JOB	ALLOWED
1		100		15	

FROM TIME OF ARRIVAL AT JOB TO FINISH OF UNLOADING PER YARD MAXIMUM FREE TIME YOU WILL BE CHARGED FOR EXCESS TIME IF SHOWN BELOW	VEHICLE I.D.	CARRIER OR DRIVER	CAL-CI-CO ROCK CO., INC. WEIGHMASTER
	315	T. Hill	DEPUTY

CONCRETE IS A PERISHABLE COMMODITY AND BECOMES THE PROPERTY OF THE PURCHASER UPON BATCHING. ANY CHANGES OR CANCELLATIONS OF ORIGINAL INSTRUCTIONS MUST BE TELEPHONED TO THE OFFICE BEFORE LOADING STARTS.

TRUCKING INFORMATION		QTY.	DESCRIPTION	PRICE	AMOUNT
LEAVE PLANT	10 20				
ARRIVE JOB	11 00				
START UNLOAD					
FINISH UNLOAD					
RETURN PLANT					
EXCESS TIME					

APR. JOB / FIN. UNLOAD = MIN.	ADDITIVES	REMARKS:	SAT. or SUN. CHARGE	
ALLOWABLE TIME 2:15 MIN.	cc _____ %		SUB TOTAL	
MIN. O.T.	_____ OZ. WRA		TAX	
	_____ OZ. AIR ENT		DELAY	
	_____ OTHER			
	REC'D BY		TOTAL	
	X _____			

WE MAKE DELIVERIES INSIDE THE CURB LINE AND ON THE LOT AT CUSTOMER'S RISK ONLY AND ACCEPT NO RESPONSIBILITY WHATSOEVER FOR DAMAGES RESULTING FROM SUCH DELIVERIES.
Past due accounts are subject to a FINANCE CHARGE. The FINANCE CHARGE is computed by a "PERIODIC RATE" of 1-1/2% per month which is an ANNUAL PERCENTAGE RATE OF 18%

QUADRUPLICATE
For Local Requirements

Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. 401538

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. BLS
Date Work Began 4/4/95, Ended 4/12/95
Local Permit Agency Kern County Envinmental Health
Permit No. Permit Date 3/31/95

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DEPTH TO FIRST WATER ___ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	20	Fine to med sand with 5% brown clay
20	150	Med to course sand
150	160	Fine to med sand with 20% brown clay
160	230	Fine to med sand 50% brown clay
230	240	Med to course sand with 85% brown clay-adobe
240	270	Med to course sand with 80% brown clay-adobe
270	280	Med to course sand with 60% brown clay
280	300	Med to course sand with 50% brown clay
300	350	Fine to med sand with clay lenses
350	380	Fine to course sand with 50% clay lenses
380	400	Fine to course sand with 20% clay
400	420	Fine to course sand with thin clay lenses
420	440	Fine to course sand with 30% brown clay
440	461	Fine to med sand with 20% brown clay lenses

TOTAL DEPTH OF BORING 461 (Feet)
TOTAL DEPTH OF COMPLETED WELL 460 (Feet)

WELL OWNER

Name North American Chemical Corp.
Mailing Address P.O. Box 96
CITY Trona STATE CA ZIP 93592-0096

WELL LOCATION

Address South of 20 Mule Team Rd at Del
City Oro St. Boron
County Kern
APN Book ___ Page ___ Parcel ___
Township 10N Range 08W Section 2 SE¼ of NW¼
Latitude ___ DEG. ___ MIN. ___ SEC. NORTH Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING
WATER SUPPLY
X Domestic
___ Public
___ Irrigation
___ Industrial
___ "TEST WELL"
___ CATHODIC PROTECTION
___ OTHER (Specify)

DRILLING METHOD rotary FLUID bentonite

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 215 (Ft.) & DATE MEASURED 4/11/95
ESTIMATED YIELD* 65 (GPM) & TEST TYPE Pump
TEST LENGTH 10 (Hrs.) TOTAL DRAWDOWN 120 (Ft.)
** May not be representative of a well's long-term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	320	12¼	X				A53B	6	.188	
320	460	12¼		X			A53B	6	.188	.060
0	60					X	A53B	2	sch 40	

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	55	X			10 Sack
55	461			X	¼ X 10

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Rottman Drilling Co (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 46471 N. Division, CITY Lancaster, STATE CA ZIP 93535
Signed Larry W. Rottman, President (WELL DRILLER/AUTHORIZED REPRESENTATIVE)
DATE SIGNED 4/14/95
C-57 LICENSE NUMBER 316599

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

2484 0

File: 19-10-02
S.W.

EDWARDS AFB
CALIFORNIA

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 2484

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
STEVE McCALLEY, R.E.H.S., Director
2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301
Phone: (805) 862-8700
FAX: (805) 862-8701

2484

RESOURCE MANAGEMENT AGENCY
DAVID PRICE III, RMA DIRECTOR
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

AOC 371

File: 19-23-16
S.W.

AR 2484

April 12, 1996

AFFTC/EM
5 E. Popson, Building 2650 A
Edwards AFB, CA 93524-1130
Attn: Don Cowan

SUBJECT: CLOSURE OF ONE (1) UNDERGROUND HAZARDOUS SUBSTANCE STORAGE TANK LOCATED AT BUILDING 8040, TANK # P045, AT EDWARDS AFB, CA

PERMIT NO.: A 2028-57 / 570078 AOC 371

Dear Mr. Cowan:

This is to advise you that this Department has reviewed the project results for the preliminary assessment associated with the closure of the tank noted above.

Based on the sample results submitted, this Department is satisfied that the assessment is complete, and that no further action is indicated.

It is important to note that this letter does not relieve you of further responsibilities mandated under the California Health and Safety Code and California Water Code if additional or previously unidentified contamination at the subject site causes or threatens to cause pollution or nuisance or is found to pose a significant threat to public health.

Thank you for your cooperation in this matter.

Sincerely,

Steve McCalley, Director

By: Wesley G. Nicks
Hazardous Materials Specialist
Hazardous Materials Management Program.

WGN:JMW:cas

cc: AMAN Environmental, Inc.
Earth Tech
California Regional Water Quality Control Board
Office of Resident Engineer

'nicks\a2028-57.m64

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

Sargent, Josh

From: Doreen Weston <dweston@kerncountyfire.org>
Sent: Friday, March 15, 2019 2:53 PM
To: Sargent, Josh
Subject: Records Request

Dear Mr. Sargent,

I received your request for records on parcel numbers in the communities of Boron and Desert Lake. We are unable to search records on parcel numbers. I would need an exact address and some idea of time frame on an incident in order to locate records on these properties.

Please call me if you have any questions at 661-391-3480.

Thank you

Doreen Weston

Office Services Specialist
dweston@kerncountyfire.org

Kern County Fire Department
Investigation Unit
Office: (661) 391-3482 / Fax: (661) 326-8392

NOTICE: *This e-mail message is for the sole use of the inten*
may contain confidential and privileged information. Any unau
disclosure and distribution is prohibited. If you are not the inte
contact the sender by reply e-mail and destroy all copies of th
To contact our e-mail administrator directly, send to kcfdadmi

File: 19-10-02
M.E.



EDWARDS AFB
CALIFORNIA

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number A

GENERAL

19 1

File:
M.E. 19-07-06-07

19

United States Air Force
Flight Test Center
Environmental Management Office
Edwards AFB, California

Installation Restoration Program

Expanded Source Investigation/ RCRA Facility Assessment (ESI/RFA)

TECHNICAL REPORT

Volume 6

September 1993

Environmental Management Library
Building 2650A
Edwards AFB Ca. 93524

EM301.1ESI 1993

INSTALLATION RESTORATION PROGRAM

EXPANDED SOURCE INVESTIGATION/RCRA FACILITY ASSESSMENT
APPENDIX F
BASE-WIDE MISCELLANEOUS (OU 7), NORTHWEST MAIN BASE (OU 8), AND NORTH BASE (OU 10)
(TEXT)

EDWARDS AIR FORCE BASE
CALIFORNIA

SEPTEMBER 1993

PREPARED FOR:

AIR FORCE FLIGHT TEST CENTER
ENVIRONMENTAL MANAGEMENT OFFICE
AFFTC/EM
EDWARDS AFB, CALIFORNIA 93523

UNITED STATES AIR FORCE
CENTER FOR ENVIRONMENTAL EXCELLENCE (AFCEE)
ENVIRONMENTAL RESTORATION DIVISION (ESR)
BROOKS AIR FORCE BASE, TEXAS 78235-5000

INSTALLATION RESTORATION PROGRAM

EXPANDED SOURCE INVESTIGATION/RCRA FACILITY ASSESSMENT
APPENDIX F
BASE-WIDE MISCELLANEOUS (OU 7), NORTHWEST MAIN BASE (OU 8), AND NORTH BASE (OU 10)
(TEXT)

EDWARDS AIR FORCE BASE
CALIFORNIA

Prepared for:

AIR FORCE FLIGHT TEST CENTER
ENVIRONMENTAL MANAGEMENT OFFICE
AFFTC/EM
EDWARDS AFB, CALIFORNIA 93523

September 1993

IRP PROGRAM OFFICE

Nancy J. Balkus
RESTORATION TEAM CHIEF

UNITED STATES AIR FORCE
CENTER FOR ENVIRONMENTAL EXCELLENCE (AFCEE)
ENVIRONMENTAL RESTORATION DIVISION (ESR)
BROOKS AIR FORCE BASE, TEXAS 78235-5000

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LIST OF ACRONYMS

AAFES	Army and Air Force Exchange Service
AFB	Air Force Base
AFFF	Aqueous Fire Fighting Foam
AFFTC/EM	Air Force Flight Test Center/Environmental Management
AFRPL	Air Force Rocket Propulsion Laboratory
AGE	Aircraft Ground Equipment
AGT	Aboveground Tank
AOC	Area of Concern
BEE	Bio-Environmental Engineer
BOD	Biochemical Oxygen Demand
BOMARC	Boeing Michigan Aeronautical Research Center
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
BWM	Base-Wide Miscellaneous
Cal EPA-DTSC	California Environmental Protection Agency - Department of Toxic Substances Control
CALNEV	California-Nevada
CDHS	California Department of Health Services
CE	Civil Engineering
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSC	Computer Sciences Corporation
DAGRAG	Dual Air to Ground Range
DCA	Dichloroethane
DCDFM	Dichlorodifluoromethane
DIR	Digital Instrumentation Radar
DRMO	Defense Reutilization and Marketing Office
EOD	Explosive Ordnance Disposal
EPA	Environmental Protection Agency
EPU	Emergency Power Unit
ESI	Expanded Source Investigation
FAA	Federal Aviation Administration
FI	Further Investigation
FID	Flame Ionization Detector
FY	Fiscal Year
GPD	Gallons per day
HiX	High Explosive
HWSF	Hazardous Waste Storage Facility
IRP	Installation Restoration Program
ITIR	Informal Technical Information Report
JATO	Jet Assisted Take-Off
JP	Jet Propellant

LIST OF ACRONYMS
(Continued)

JPL	Jet Propulsion Laboratory
LACSD	Los Angeles County Sanitation District
LOX	Liquid Oxygen
LRWQCB	Lahontan Regional Water Quality Control Board
LUFT	Leaking Underground Fuel Tank
MBAS	Methylene Blue Active Substances
MBEFSA	Main Base Exotic Fuels Storage Area
MBFL	Main Base Flight Line
MCL	Maximum Contaminant Level
mg/L	Milligrams per liter
MMH	Monomethyl Hydrazine
MOGAS	Motor Gasoline
MWR	Morale, Welfare and Recreation
NASA	National Aeronautics and Space Administration
NFI	No Further Investigation
NFRAP	No Further Response Action Planned
N_2O_4	Nitrogen Tetroxide
NPL	National Priorities List
OU	Operable Unit
PB	Practice Bombing Area
PCB	Polychlorinated Biphenyl
PCE	Perchloroethene (tetrachloroethene)
PCM	Perchloromethane (tetrachloromethane)
PIRA	Precision Impact Range Area
POL	Petroleum, Oils and Lubricants
ppb	Parts per billion
ppm	Parts per million
PRL	Potential Release Location
RADFAG	Radar Fidelity and Geometrical Range
RCRA	Resource Conservation and Recovery Act
RDWAL	Recommended Drinking Water Action Level
RFA	RCRA Facility Assessment
RI/FS	Remedial Investigation/Feasibility Study
SAP	Sampling and Analysis Plan
STLC	Soluble Threshold Limit Concentration
SW	Support Wing
SWAT	Solid Waste Assessment Test
SWFP	Solid Waste Facility Permit
SWMU	Solid Waste Management Unit
TCA	Trichloroethane

LIST OF ACRONYMS
(Continued)

TCE	Trichloroethene
TCLP	Toxic Characteristic Leaching Procedure
TDS	Total Dissolved Solids
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentration
UDMH	Unsymmetrical Dimethylhydrazine
UST	Underground Storage Tank
USGS	United States Geological Survey
VCP	Vitrified Clay Pipe
VOC	Volatile Organic Compound
VSI	Visual Site Inspection
WET	Waste Extraction Test
XRF	X-ray Fluorescence

1.0 INTRODUCTION

This report summarizes the results of an Expanded Source Investigation/Resource Conservation and Recovery Act (RCRA) Facility Assessment (ESI/RFA) for the Base-Wide Miscellaneous, Northwest Main Base, and North Base Operable Units (BWM OU, NWMB OU, and NB OU, respectively) at Edwards Air Force Base (AFB), California. The base, located in southeastern Kern County (Figure 1-1), is a National Priorities List (NPL) site. The BWM, NWMB, and NB OUs have been identified as OU Nos. 7, 8, and 10, respectively in the Edwards AFB Remedial Response Program for compliance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

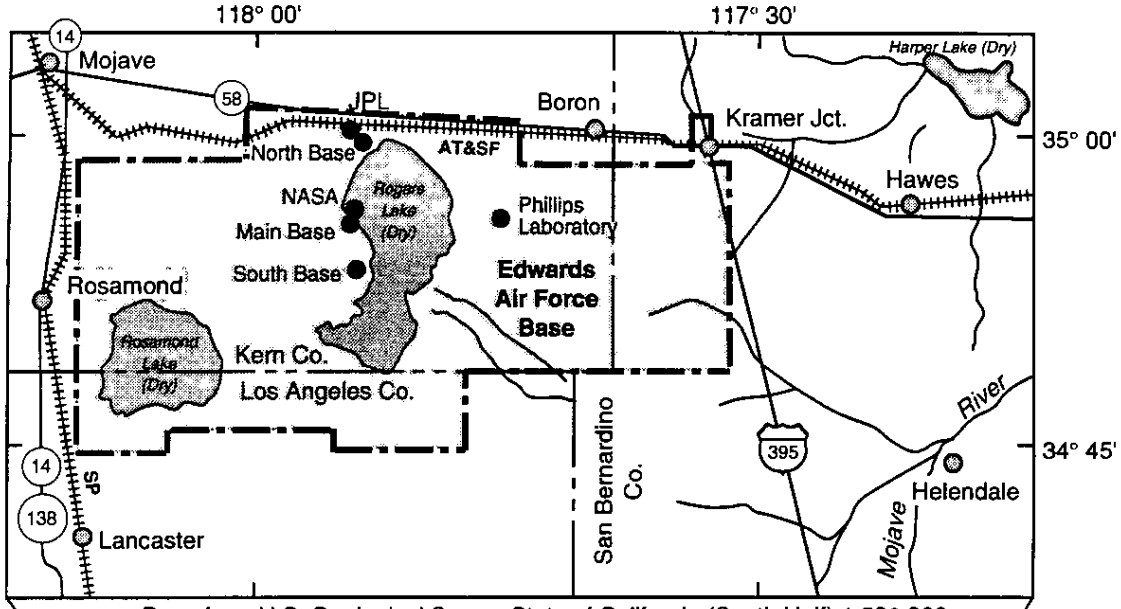
Between March 1991 and September 1993, the Earth Technology Corporation (Earth Technology) conducted a Base-Wide ESI/RFA at Edwards AFB under the United States Air Force Installation Restoration Program (IRP). The purpose of the Base-Wide ESI/RFA was to identify Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) in accordance with the Environmental Protection Agency (EPA) document "RCRA Facility Assessment Guidance" (U.S. EPA, 1986). A SWMU is defined as any discernible waste management unit from which hazardous constituents might migrate, irrespective of whether the unit was intended for the management of solid and/or hazardous waste. An AOC is a unit from which there may have been a release, but not on a routine basis.

The report is organized as follows: Section 1.0 provides an introduction, including descriptions of the BWM, NWMB, and NB OUs and environmental setting; Section 2.0 describes project activities, including site reconnaissance, interviews, and literature search; Section 3.0 presents the project findings, including facility descriptions and a listing of SWMUs and AOCs; Section 4.0 provides recommendations for further investigation; and Section 5.0 lists the references used in preparing this document.

1.1 OU DESCRIPTIONS

Originally, the BWM OU encompassed the Main Base cantonment area north and west of the Main Base Flight Line, the North Base, and outlying regions of the base not included in one of the six other OUs (i.e., the Main Base Flight Line, South Base, Historic Wells, Phillips Laboratory, Jet Propulsion Laboratory, and NASA/Ames-Dryden) identified in 1991 (Figure 1-2). In 1993, the Edwards AFB IRP was reorganized into 10 OUs (Figure 1-3). The main base cantonment area was reassigned from the BWM OU (OU 7) to the new NWMB OU (OU 8) and the North Base was reassigned to the new NB OU (OU 10).

Environmental Management Library
Building 2650A
Edwards AFB Ca. 93524



Base from U.S. Geological Survey State of California (South Half) 1:500,000

0 10 20 miles

0 10 20 30 km

Scale

North

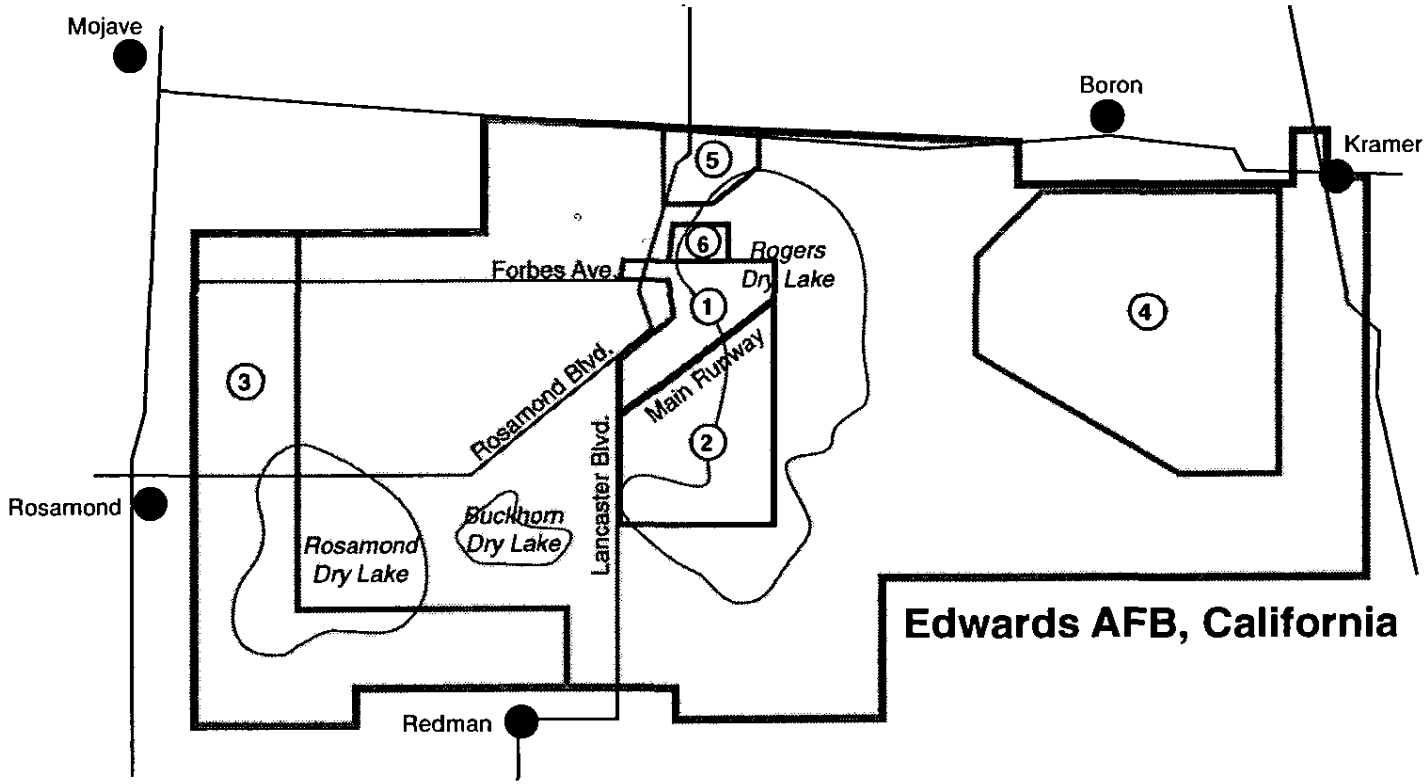


The Earth Technology Corporation	Project No. 91-1006 Base Wide Miscellaneous ESI/RFA

Location Map

9-93 Figure 1-1

91-1006-21 B Wide Mis ESI/RFA



Operable Unit Identification

1. Main Base Flight Line
2. South Base
3. Homestead Wells
4. Phillips Laboratory
5. JPL
6. NASA
7. Base-Wide Miscellaneous

North

0 5

Scale in Miles

The Earth Technology Corporation

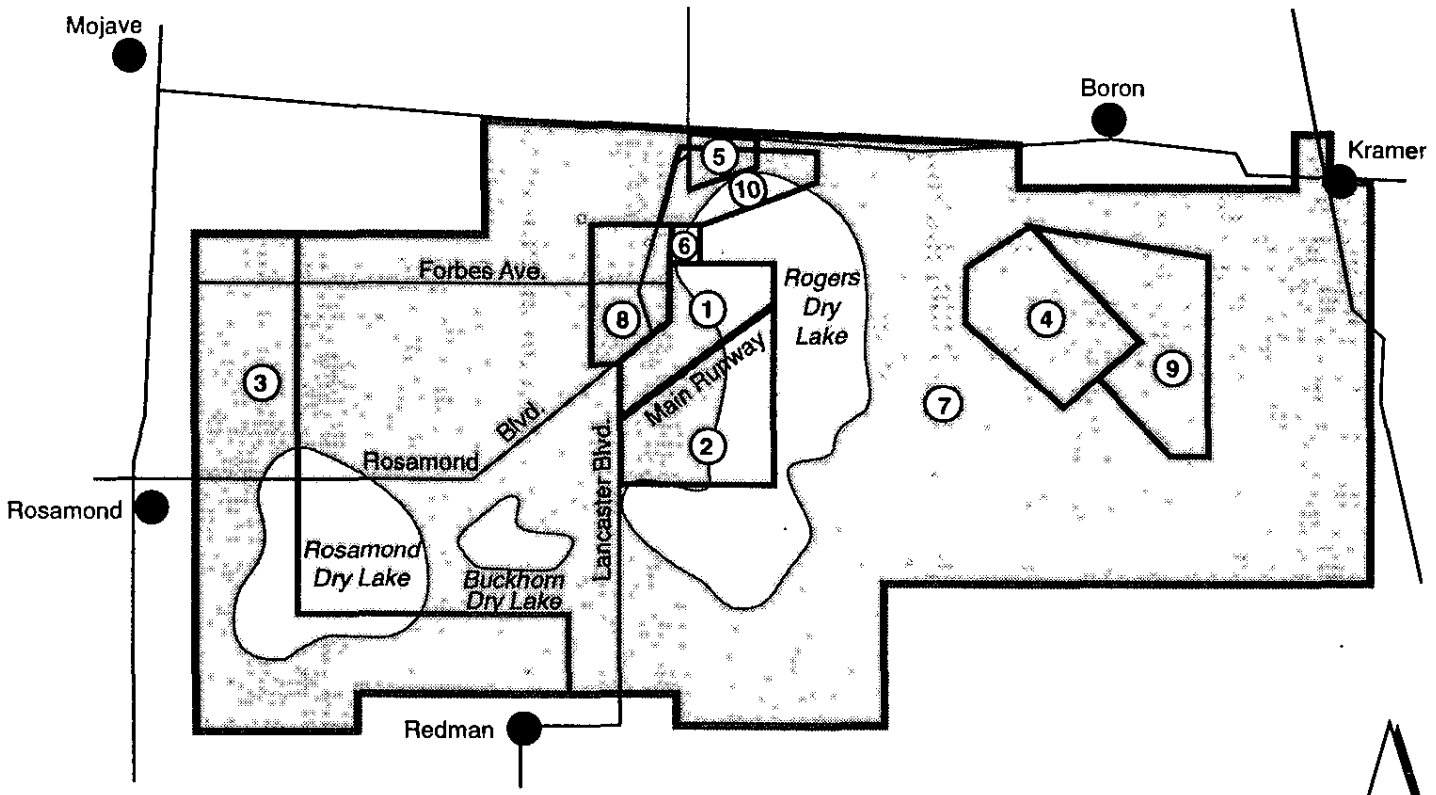
Project No 91-1006

Base Wide Miscellaneous ESI/RFA

Installation Restoration Program Operable Units-1991

9-93

Figure 1-2



Legend

1. Main Base Flight Line
2. South Base
3. Base Wide Water Wells
4. Phillips Laboratory-West
5. JPL
6. NASA
7. Base-Wide Miscellaneous
8. Northwest Main Base
9. Phillips Laboratory-East
10. North Base

North

0 5

Scale in Miles

The Earth Technology Corporation

Project No. 91-1006

Base Wide Miscellaneous
ESI/RFA

Installation Restoration Program Operable Units-1993

9-93

Figure 1-3

91-1006-21 B Wid /RFA

1.1.1 Base-wide Miscellaneous

The current BWM OU includes outlying regions in the western portion of the base; the area east of Rogers Dry Lake (excluding the Phillips Laboratory), and the area south of the South Base. There are a number of abandoned facilities (East Camp, airfields, Mojave Corporation, Federal Aviation Administration stations, etc.) in these regions. A large portion of the outlying regions is occupied by the Precision Impact Range Area (PIRA), where aircraft weapons and systems are tested.

The BMW OU is comprised of IRP Areas LF-30, LF-40, WP-190, and OT-230. Previous studies have been conducted at LF-30 (Site 3), LF-40 (Site 4), and OT-230 (Site 34). Field investigations at these sites included drilling and sampling soil boreholes, and the installation and sampling of groundwater monitoring wells.

Analysis of soil samples from IRP Areas LF-30 and LF-40 identified pesticide and metal contamination at IRP Area LF-30 and metal contamination at IRP Area LF-40. Analysis of samples collected during Air Solid Waste Assessment Tests (Air SWATs) identified detectable levels of organic vapors from both sites based on integrated surface sampling and fixed sampling locations. No groundwater samples were collected or analyzed during Phase I Groundwater SWATs; however, Phase II SWAT activities conducted during 1992 at LF-40 included the installation and sampling of four groundwater monitoring wells (40-MW1 to 40-MW4). Sampling during the Phase II Water SWAT investigation showed soils to contain low levels of total petroleum hydrocarbons (TPH). Low levels of two chlorinated herbicides were also detected in soil from Well 40-MW4. Metals in soils were found to be well below California Title 22 disposal limits. In groundwater, Freons were detected in Well 40-MW1. Trichloroethene was detected in Well 40-MW1 in two of three sampling rounds and in Well 40-MW4 in one sampling round. TPH was detected at low concentrations in Well 40-MW1 in all three sampling rounds and in Well 40-MW2 in one sampling round (Earth Technology 1991b and 1992b).

Analysis of surface soil samples from IRP Area OT-230 (Site 34) identified metal and dioxin/furan contamination. One surface water sample taken from Piute Ponds was analyzed for dioxins, but none were detected. A remedial action plan was implemented in February and March 1991. Poststabilization surface soil analysis indicated that some samples still had metal concentrations above the Total Threshold Limit Concentration (TTLC) values (Earth Technology, 1991b).

No previous studies have been conducted in IRP Areas WP-190 (PRL 28). Suspected contaminants in IRP Area WP-190 are petroleum products and additives, solvents, metals, and acids.

1.1.2 Northwest Main Base

The NWMB OU includes the Main Base Cantonment area that was originally in OU 7, and also the Bulk Fuel Storage Facility (Buildings 4924 to 4939); Hazardous Waste Storage Facility (Buildings 4916 and 4917); Waste POL facility (Tanks 4702 to 4706); initial mile of the JP-4 pipeline; and Asphaltic Pond at Building 4919, that were originally in the MBFL OU (OU 1). Facilities reassigned to OU 8 from OU 1 are described in Appendix A.

The Main Base cantonment area contains facilities associated with vehicle and aircraft maintenance, in addition to housing and recreation areas. Original IRP Areas DP-20 (Site 2) and ST-80 (PRL 25) were reassigned to the NWMB OU from the BWM OU (IRP Areas ST-90 and ST-100 were reassigned from the MBFL OU and are described in Appendix A). A field investigation was conducted at Site 2 that included drilling and sampling soil boreholes. Analytical results indicated that subsurface soils at Site 2 were contaminated with nitrate and metals. In 1985, a removal action was implemented for Site 2 that was specified in a Phase IV Removal Action Plan (Engineering-Science, 1984). No previous studies have been conducted in IRP Area ST-80 (PRL 25). Potential contaminants suspected to be present at PRL 25 include petroleum products and additives, solvents, and exotic fuels.

1.1.3 North Base

The NB OU includes facilities at North Base and the area bordering the northern part of Rogers Dry Lake. The North Base includes a number of aircraft maintenance facilities that date from the 1940s; an area of demolished, former support buildings; an old, but still active, sewage treatment plant; and a number of former disposal areas. IRP Area DP-10 (Site 1) is in the NB OU. A field investigation was conducted at Site 1 that included drilling and sampling soil boreholes. Analytical results indicated that subsurface soils at Site 1 were contaminated with chlorinated organics. In 1985, a removal action was implemented at Site 1 that was specified in a Phase IV Removal Action Plan (Engineering-Science, 1984).

1.2 ENVIRONMENTAL SETTING

Edwards AFB is located east of Rosamond, 60 miles north-northeast of Los Angeles, in the Antelope Valley on the western edge of the Mojave Desert (Figure 1-1). The base occupies about 470 square miles of high desert, including three dry lake beds (Rogers, Rosamond, and Buckhorn), and contains runways up to 7.5 miles in length. The lake bed playas form a dry hard pan surface most of the year, well suited for landing aircraft. Climate in the Edwards AFB area is arid, with hot dry summers and mild winters.

The following subsections contain information, derived from various investigations, that was previously summarized in the Base-Wide Consolidated Planning Report (Earth Technology, 1991b).

1.2.1 Drainage and Surface Water Hydrology

The Antelope Valley is a closed basin, rimmed by the San Gabriel Mountains to the south, the Tehachapi Mountains to the west, low lying hills to the east, and higher elevation areas to the north and northeast just beyond the town of Mojave. The low points of the drainage system on Edwards AFB are the Rogers, Rosamond, and Buckhorn dry lake playas. These dry lakes receive most runoff originating on the base, as well as significant amounts of runoff from off-base areas. Surface runoff from the easternmost portions of the base drain to off-base areas.

Surface drainage from the base occurs either as sheet flow across gently sloping terrain, or as channeled flow if it is not caught in small depressions in the low lying areas near the playas. Channeled flow can be found in natural, ephemeral stream courses or engineered drainage ditches along roads, between buildings or around runways and taxiways. All of the water caught in depressions, and some of the surface runoff, either evaporates or infiltrates into the ground. The remaining runoff water drains into one of the three on-base playas, where it evaporates.

In the northwestern region of the base, surface water running off the northern side of the Rosamond Hills eventually drains east and to Rogers Dry Lake. Rosamond Dry Lake in the southwestern portion of the base receives runoff from the southern side of these hills, as well as from most of the southwestern portion of the base. Buckhorn Dry Lake receives a smaller portion of runoff from the southwestern areas. The Piute Ponds (SWMU No. BW-SW/1), also located in the southwestern corner of the base, are effluent impoundments for the County Sanitation Districts of Los Angeles County, and do not receive surface drainage from the base.

In the central section of the base, surface water drainage is toward Rogers Dry Lake from lands surrounding it. Some drainage from the Main Base cantonment area in the NWMB OU may eventually flow into drainage ditches and the underground storm drain system which discharge to the Stormwater Retention Pond (SWMU No. M-SRP/1) or Rogers Dry Lake Bed Discharge Points 1 or 2 (SWMU Nos. M-RDLB/1 and M-RDLB/2) (see Appendix A).

In the eastern areas of the base, surface runoff from the northwestern side of Leuhman Ridge runs on to a relatively flat area at the base of the alluvial fan/bajada surface, where it evaporates or soaks into the ground. Areas to the southwest and south of Leuhman Ridge drain toward Rogers Dry Lake. Runoff from the northeastern corner of the base drains off-base to the northeast toward Harper Lake. Runoff from the southeastern corner of the base drains to the southeast toward Buckthorn Canyon (Envirodyne Engineers, Inc., 1981).

1.2.2 Geology

To simplify the discussion below, Edwards AFB has been divided into three geographic regions. The eastern base region is located east of Rogers Dry Lake and includes the Phillips Laboratory. The central base region includes Rogers Dry Lake and portions of the North Base, Main Base, and South Base. The western base region is located west of the Main Base Flight Line and South Base, and includes the Northwest Main Base OU.

EASTERN BASE REGION

The geology of the eastern base region has been little studied but generally consists of a granitic bedrock overlain by a thin zone of weathered bedrock. Alluvium overlies the weathered bedrock and is composed of sands, sandy silt and sandy clay. This region includes several topographic highs (Leuhman Ridge, Haystack Butte, and Kramer Hills) resulting from outcropping intrusive and extrusive bedrock. These areas of topographic relief are surrounded by broad sloping alluvial fans. Very little stratigraphic data have been collected for the eastern base region. However, data available from geotechnical investigations for construction projects on Leuhman Ridge suggest that bedrock occurs at shallow depths (generally much less than 15 feet) where it does not outcrop on the surface. Away from the topographic highs in the area of the alluvial fan deposits, depth to bedrock is not known.

CENTRAL BASE REGION

The central base region consists largely of Rogers Dry Lake playa and the North Base, Main Base, and South Base areas, which are located near the northwestern and western edges of the playa. The North Base, Main Base, and South Base areas have similar geology; however, the lithology and the depth to bedrock are variable within each area.

The North Base area is located on the northwestern edge of Rogers Dry Lake. Its geology consists of an upper layer of younger (recent) alluvial deposits composed of unconsolidated sand, boulders, cobbles and gravel with small quantities of silt and clay underlain by older alluvial deposits. The younger alluvium is variable in thickness, and is reportedly from 80 feet to 100 feet thick. The underlying older alluvium reportedly extends from the bottom of the younger alluvium to about 400 feet below ground surface. The older alluvium is reportedly composed of poorly sorted, highly weathered arkosic gravel and sand. Depth to the granitic bedrock in the North Base area is not known. However, in boreholes drilled in IRP Site 1 at the northern end of the playa, bedrock was encountered at depths between 172 feet and 192 feet. Two wells (N-1 and N-2, formerly known as NB-3 and NB-5) located near Rogers Dry Lake did not encounter bedrock at depths of 500 feet.

The Main Base area is located on the western edge of Rogers Dry Lake in the playa boundary zone where granitic bedrock, which outcrops to the west, borders on and underlies the extensive playa deposits to the east. The lacustrine and alluvial deposits overlying bedrock in the Main Base area vary considerably both laterally and vertically. The predominant lithologies are sand, silt, and clay with variable amounts of gravel to cobble-sized clasts. A zone of in-place, weathered granite, which is high in clay content and of variable thickness, typically overlies the granitic bedrock. Depth to granitic bedrock increases to greater than 80 feet in the playa deposits on the eastern edge of the Main Base area (Earth Technology, 1993).

The South Base area includes the facilities identified as the South Base (formerly Muroc Army Air Field) as well as the South Base well field and the South Track well field. The South Base area is located on the southwestern edge of Rogers Dry Lake on the margin of the playa

deposits. Young alluvial deposits composed of interfingering clays and sands are underlain by weathered bedrock and granitic bedrock in this area. Granitic bedrock occurs at depths ranging from 100 feet in the northwest to over 250 feet in the southeast. Available data indicates the bedrock surface dips to the south and east, toward the playa. Bedrock was not encountered in wells drilled to a depth of approximately 700 feet in the South Base well field, and older alluvial deposits were reportedly encountered from approximately 200 feet below ground surface to total depth of the wells (Earth Technology, 1993).

WESTERN BASE REGION

With the exception of the Main Base Active Sanitary Landfill (Site 4), the geology of the Western Base Region has been little studied. Four wells (40-MW1 to 40-MW4) were installed at the Main Base Active Sanitary Landfill in 1992. Surface alluvial deposits, chiefly silty and gravelly sands, were found to vary in thickness from 38 feet at Well 40-MW1 in the southern end of Site 4 to 1.5 feet at Well 40-MW3 in the western end of the site. Deposits thicken from north to south and from west to east. Weathered granitic bedrock underlies the alluvial deposits, at thicknesses ranging from 63 feet at Well 40-MW1 to 13.5 feet at Well 40-MW4. This bedrock is highly fractured, with weaker zones in the rock coinciding at deeper depths with the presence of groundwater (Earth Technology, 1992b).

1.2.3 Hydrology

Edwards AFB overlies portions of two primary groundwater subunits, the North Muroc Basin and the Lancaster Basin. The North Muroc Basin underlies the north central portion of the base, including the North Base area and the northern part of the Main Base area. Depth to groundwater in the North Base well field, which has one active water supply well (N-2, formerly known as NB-5), ranges from 100 feet to 125 feet (Earth Technology, 1993).

The Lancaster Basin underlies the south central and southwestern portions of the base. With the exception of Well N-2 at the North Base well field, all other active water supply wells (a total of 12) on base are located within the Lancaster Basin. These wells are in the South Base, South Track, Branch Park, Golf Course, and Phillips Laboratory well fields. Depths to groundwater in the principal aquifer of this basin range from 175 feet to 325 feet, and in the deep aquifer from 250 feet to 900 feet. Perched water has been found discontinuously across most of the Lancaster Basin.

Part of one minor subunit, the Gloster Basin, underlies the extreme northwestern corner of the base. There are no on-base production wells within the Gloster Basin (Earth Technology, 1993).

The remainder of the base overlies three areas of shallow bedrock and low groundwater yield. The Rosamond-Bissell Area underlies most of the northwestern portion of the base; the Randsburg-Castle Butte Area underlies the northeastern corner, and the Hi Vista Area underlies the southeastern corner. There are no on-base water supply wells within these areas.

1.2.4 Migration Pathways

Potential migration pathways for contaminants coming from the BWM, NWMB, and NB OUs include the atmosphere, surface runoff, and subsurface migration through soil and groundwater. There are no known sources of significant, continuous release to the atmosphere in these OUs. Surface runoff is a concern mainly because potential contaminants might eventually infiltrate the subsurface. There are no permanent surface water bodies other than the Piute Ponds in the BWM OU, and they do not receive runoff from the base. The Evaporation Pond (SWMU No. N4331/1) at the North Base sewage treatment facility does not regularly contain standing water. Potential receptors of surface water would likely be limited to desert wildlife.

Subsurface migration through soil and groundwater is likely to be the pathway of most concern. Groundwater is used for domestic, maintenance, and industrial purposes throughout Edwards AFB. There are a number of water supply wells within the water-bearing units under portions of the NB and BWM OUs. Although there is no known contamination of these sources, perched water above the South Base wells has been shown to contain petroleum products and organic compounds such as chlorinated solvents.

2.0 PROJECT ACTIVITIES

Project activities for the investigation of the Base-Wide Miscellaneous, Northwest Main Base and North Base OUs included site reconnaissance visits, personnel interviews, and literature searches.

2.1 SITE RECONNAISSANCE AND INTERVIEWS

Information was gathered during several Visual Site Inspections (VSI), conducted between April 1991 and December 1992. The VSIs were conducted during the following periods:

- o April 22-26, 1991
- o May 13-24, 1991
- o June 1-12, 1992
- o December 15, 1992.

The VSI of a facility or test area typically began with an introductory telephone call to the facility manager, in which an appointment was made for an interview and site reconnaissance. The interview included a discussion of overall operations at the facility, with emphasis on hazardous waste management. If possible, a historical overview of the facility was obtained, including the names of "old timers" who had worked at the facility for a long time. After the interview, in which potential SWMUs and AOCs were identified, a tour of the facility was conducted. Operations were viewed and, where possible, SWMUs and AOCs previously discussed were visited. Other SWMUs and AOCs were also identified. For the VSI of remote sections of the base (e.g., the range, and the northwestern and southwestern areas), the Earth Technology teams were usually accompanied by base personnel familiar with the territory and the SWMUs or AOCs anticipated to be seen.

Information obtained from the VSI is contained in site files designated SF B-XXXX where:

SF	Stands for Site File
B	Stands for Base-wide Miscellaneous (other letters are used for other areas)
XXXX	Provides either a building number, or other descriptor of the facility (e.g., SF B-2110 includes the field notes collected during a tour of Building 2110).

2.2 LITERATURE SEARCH

Literature searches consisted of visits to sources located on base and to various local, state, and federal regulatory agencies. Map and engineering drawing files at the Main Base, as well as at the National Archives in Laguna Niguel, were also searched. In addition, historical photographs and previous documents were reviewed. A list of map file numbers and aerial photos reviewed for each facility is included in the site file.

3.0 FACILITY AND SWMU DESCRIPTIONS

This section provides an overview of operations at Base-Wide Miscellaneous facilities (including North Base), with emphasis on hazardous waste management, followed by associated SWMU and AOC descriptions. Where possible, individual buildings are described separately. For other areas, such as the Main Base Exotic Fuels Storage Area (Buildings 4946 to 4965), which include many facilities, the associated buildings are described in an overall discussion of the operation.

SWMUs and AOCs are assigned a number relating to their location near a building or other facility. The SWMU numbering system is as follows, for a typical SWMU number BWxxxx/y or Nxxxx/y:

BW	Stands for Base-Wide
N	Stands for North Base (other letters are used for other areas of the base)
xxxx	Provides either a building number, or other descriptor of where the unit is located
y	Provides the individual SWMU or AOC number associated with a particular building or facility.

The SWMU and AOC description format is typical of that used in an RFA report. Each description contains a summary of information used, including site files, photographs from Appendix G, reference material, and other documents (letters, memos, etc.).

The buildings and facilities visited, along with their associated SWMUs and AOCs, are listed in Table 3-1. Also in Table 3-1 is a listing of the potential for release from each unit. The release potential to soils and groundwater is assessed as being the same, since in most of the areas covered by this ITIR, the depth to groundwater has not been extensively investigated. The potential for release to the atmosphere and for generation of explosive subsurface gas (methane) is also addressed. There are no permanent surface water bodies (except for wastewater ponds) in the vicinity for which release potential is assessed.

Release potential is classified as high, moderate, or low, using the following guidelines:

High Potential	-	Units with documented or visual evidence of release, or for which the design allows for release.
Moderate Potential	-	Units for which a release may have occurred, or where the volume released was small.
Low Potential	-	Units which are indoors or have good release controls, and are in good condition.

TABLE 3-1. BWM SWMUs, AOCs, AND RELEASE POTENTIALS

(Page 1 of 8)

Facility	SWMUs & AOCs		Operable Unit[B]	Figure No.	Plate No./ Sheet No. (BCP)[A]	Release Potential			
						Low	Mod.	High	Unknown
Building 210	SWMU No. BW210/1	Trap/Skeet Range	7	3-1	1/1 (-)	A,S		CG,PG	
Building 227	SWMU No. BW227/1	Small Arms Firing Range	7	3-1	1/1 (-)	A,S		CG,PG	
Building 2110	SWMU No. BW2110/1	Parts Cleaner	8	3-2	2/11(4c)	CG,PG,A,S			
	SWMU No. BW2110/2	Grease Traps	8	3-2	2/11(4c)	A,S			CG,PG
	SWMU No. BW2110/3	Accumulation Point	8	3-2	2/11(4c)	A,S	CG, PG		
	SWMU No. BW2110/4	Removed Waste Oil UST	8	3-2	2/11(4c)	CG,A,S		PG	
	SWMU No. BW2110/5	Wash Rack/Grease Trap	8	3-2	2/11(4c)	A,S			CG,PG
	AOC No. BW2110/1	Exterior Lube Bay Drain	8	3-2	2/11(4c)	A,S	PG		CG
	AOC No. BW2110/2	Storage Area Drain	8	3-2	2/11(4c)	A,S	PG		CG
	AOC No. BW2110/3	Building 2110 Active UST	8	3-2	2/11(4c)	CG,PG,A,S			
	AOC No. BW2110/4	Building 2110 Inactive USTs	8	3-2	2/11(4c)	CG,A,S			PG
Building 2340	AOC No. BW2340/1	Active USTs	8	3-3	2/9(4a)	CG,A,S		PG	
	AOC No. BW2340/2	Inactive Diesel UST	8	3-3	2/9(4a)	CG,A,S		PG	
	AOC No. BW2340/3	Removed Waste Oil UST	8	3-3	2/9(4a)	CG,A,S			PG
Building 2450	SWMU No. BW2450/1	Parts Cleaner	8	3-4	2/11(4c)	CG,PG,A,S			
	SWMU No. BW2450/2	Waste Oil Disposal Sink	8	3-4	2/11(4c)	CG,S	A	PG	
	SWMU No. BW2450/3	Removed Waste Oil UST	8	3-4	2/11(4c)	CG,A,S		PG	
	SWMU No. BW2450/4	Oil/Water Separator	8	3-4	2/11(4c)	A,S			CG,PG
	SWMU No. BW2450/5	Used Battery Storage Area	8	3-4	2/11(4c)	CG,PG,A,S			
	SWMU No. BW2450/6	Paint Booth Exhaust System	8	3-4	2/11(4c)	CG,PG,S	A		
	SWMU No. BW2450/7	Accumulation Point	8	3-4	2/11(4c)	A,S	CG,PG		
Building 3500	SWMU No. BW3500/1	Common Yard	8	3-5	2/9(4a)	A,S	CG	PG	
	SWMU No. BW3500/2	Freon Reclamation Unit	8	3-5	2/9(4a)	CG,PG,A,S			
	SWMU No. BW3500/3	Heavy Equipment Shop Satellite Accumulation Point	8	3-5	2/9(4a)	A,S	CG,PG		
	SWMU No. BW3500/4	Paint Booth Air Filter	8	3-5	2/9(4a)	CG,PG,S	A	A	
	SWMU No. BW3500/5	Paint Shop Accumulation Point	8	3-5	2/9(4a)	S	CG,PG		CG,PG
	SWMU No. BW3500/6	Oil/Water Separator	8	3-5	2/9(4a)	A,S			
	SWMU No. BW3500/7	Small Engine Repair Shop Parts Cleaner	8	3-5	2/9(4a)	CG,PG,A,S			
	SWMU No. BW3500/8	Power Production Accumulation Point	8	3-5	2/9(4a)	CG,PG,A,S			
	SWMU No. BW3500/9	Removed Waste Oil Tank	8	3-5	2/9(4a)	CG,PG,A,S			
	SWMU No. BW3500/10	Heavy Equipment Shop Parts Cleaners	8	3-5	2/9(4a)	CG,PG,A,S		PG	
	AOC No. BW3500/1	Painted Desert	8	3-5	2/9(4a)	CG,S	A		

[A] - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)

[B] - Some units originally in OU 7 were reassigned to OU 8 or OU 10

A - Potential for release to air

CG - Current potential for release to soils and groundwater

PG - Past potential for release to soils and groundwater

S - Potential for generation of subsurface gas

TABLE 3-1. BWM SWMUs, AOCs, AND RELEASE POTENTIALS
(Page 2 of 8)

Facility	SWMUs & AOCs		Operable Unit[B]	Figure No.	Plate No./ Sheet No. (BCP)[A]	Release Potential			
						Low	Mod.	High	Unknown
Building 3510	SWMU No. BW3510/1	Hydraulic Lift Pits	8	3-5	2/9(4a)	A,S			CG,PG
	SWMU No. BW3510/2	Solvent Tanks	8	3-5	2/9(4a)	CG,PG,A,S			
	SWMU No. BW3510/3	Paint Booth Exhaust Systems	8	3-5	2/9(4a)	CG,PG,S	A		
	SWMU No. BW3510/4	Paint Booth Satellite Accumulation Point	8	3-5	2/9(4a)	CG,PG,A,S			
	SWMU No. BW3510/5	Steam Cleaning Oil/Water Separator	8	3-5	2/9(4a)	A,S			CG,PG
	SWMU No. BW3510/6	Wash Rack Oil/Water Separator	8	3-5	2/9(4a)	A,S			CG,PG
	SWMU No. BW3510/7	Removed Waste Oil Tank	8	3-5	2/9(4a)	CG,A,S		PG	
	SWMU No. BW3510/8	Waste Oil Accumulation Point	8	3-5	2/9(4a)	CG,PG,A,S			
	SWMU No. BW3510/9	Former Battery Storage Area	8	3-5	2/9(4a)	CG,A,S	PG		
	SWMU No. BW3510/10	Refueling Vehicle Sump	8	3-5	2/9(4a)	A,S			CG,PG
	AOC No. BW3510/1	Sludge Disposal Area	8	3-5	2/9(4a)	A,S	CG,PG		
	AOC No. BW3510/2	Former Gasoline Station	8	3-5	2/9(4a)	CG,A,S	PG		
Building 3514	AOC No. BW3514/1	Former Gasoline Station	8	3-3	2/9(4a)	CG,A,S		PG	
Building 3735	AOC No. BW3735/1	Supply Yard	8	3-6	2/10(4b)	A,S	CG,PG		
	AOC No. BW3735/2	Exterior Drains	8	3-6	2/10(4b)	A,S			CG,PG
Building 3739	AOC No. BW3739/1	Concrete Pad	8	3-6	2/10(4b)	CG,A,S	PG		
Building 3900	AOC No. BW3900/1	Former Substation	8	3-6	2/10(4b)	CG,A,S			PG
Building 4301	SWMU No. N4301/1	Evaporation Pond	10	3-7	2/1(1d)	S	CG,PG,A		
Building 4305	SWMU No. N4305/1	Storm Drain System	10	3-7	2/1(1d)	CG,A,S			PG
	SWMU No. N4305/2	Sump Pit	10	3-7	2/1(1d)	CG,A,S			PG
	SWMU No. N4305/3	Former Drainage System	10	3-7	2/1(1d)	CG,A,S			PG
	AOC No. N4305/1	Removed UST	10	3-7	2/1(1d)	CG,A,S		PG	
	AOC No. N4305/2	Fallen Asbestos Shingles	10	3-7	2/1(1d)	CG,PG,S	A		
Building 4315	AOC No. N4315/1	Active UST	10	3-7	2/1(1d)	CG,PG,A,S			
	AOC No. N4315/2	Inactive UST	10	3-7	2/1(1d)	CG,A,S			PG
Building 4316	AOC No. N4316/1	Fallen Asbestos Shingles	10	3-7	2/1(1d)	CG,PG,S	A		
	AOC No. N4316/2	Removed Transformer Unit	10	3-7	2/1(1d)	CG,PG,A,S			
Building 4317	SWMU No. N4317/1	Battery Waste Area	10	3-7	2/1(1d)	CG,A,S		PG	
Building 4318	AOC No. N4318/1	Former Motor Pool	10	3-7	2/1(1d)	CG,A,S			PG

[A] - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)
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A - Potential for release to air
CG - Current potential for release to soils and groundwater
PG - Past potential for release to soils and groundwater
S - Potential for generation of subsurface gas

TABLE 3-1. BWM SWMUs, AOCs, AND RELEASE POTENTIALS
(Page 3 of 8)

Facility	SWMUs & AOCs		Operable Unit[B]	Figure No.	Plate No./ Sheet No. (BCP)[A]	Release Potential			
						Low	Mod.	High	Unknown
Building 4331	SWMU No. N4331/1	Imhoff Tank	10	3-8	2/1(1d)	A			CG,PG,S
	SWMU No. N4331/2	Evaporation Pond	10	3-8	2/1(1d)	CG,A	PG,S		
	SWMU No. N4331/3	Sludge Drying Beds	10	3-8	2/1(1d)	A	CG,PG,S		
	SWMU No. N4331/4	Sewer Lines	10	-	2/1(1d)	CG,A			PG, S
Building 4389	SWMU No. N4389/1	Accumulation Point	10	3-9	2/3(2b)	A,S	CG,PG		
	AOC No. N4389/1	Aboveground Fuel Tanks	10	3-9	2/3(2b)	A,S	CG,PG		
	AOC No. N4389/2	Removed Underground Fuel Tank	10	3-9	2/3(2b)	CG,A,S			PG
	AOC No. N4389/3	Engine Test Cell	10	3-9	2/3(2b)	S	A	CG,PG	
Building 4400	AOC No. N4400/1	Removed UST	10	3-7	2/1(1d)	CG,S	PG,A		
Building 4401	SWMU No. N4401/1	Floor Drain	10	3-7	2/1(1d)	CG,A,S			PG
	SWMU No. N4401/2	Satellite Accumulation Point	10	-	2/1(1d)	S			CG,PG,A
	AOC No. N4401/1	Removed UST	10	3-7	2/1(1d)	CG,A,S		PG	
Building 4402	SWMU No. N4402/1	Dark Room Sinks	10	3-7	2/1(1d)	CG,A,S			PG
	SWMU No. N4402/2	Dark Room Floor Vault	10	3-7	2/1(1d)	CG,A,S	PG		
	SWMU No. N4402/3	Floor Drain	10	3-7	2/1(1d)	CG,A,S			PG
	SWMU No. N4402/4	Former Sanitary Sump	10	3-7	2/1(1d)	CG,PG,A,S			
	AOC No. N4402/1	Removed UST	10	3-7	2/1(1d)	CG,A,S		PG	
Building 4410	SWMU No. N4410/1	Drainage System	10	3-7	2/1(1d)	A, S	CG,PG		
	SWMU No. N4410/2	Accumulation Point	10	3-7	2/1(1d)	S	CG,PG	A	
Building 4444	SWMU No. N4444/1	Satellite Accumulation Point	10	3-7	2/1(1d)	CG,PG,A,S			
Building 4505	SWMU No. N4505/1	Dark Room Sink	10	3-10	2/1(1d)	CG,A,S			PG
	SWMU No. N4505/2	Clean Line	10	3-10	2/1(1d)	CG,PG,A,S			
	SWMU No. N4505/3	Floor Drain	10	3-10	2/1(1d)	CG,A,S			PG
	SWMU No. N4505/4	Accumulation Point	10	3-10	2/1(1d)	CG,PG,A,S			
	SWMU No. N4505/5	Former Sump	10	3-10	2/1(1d)	CG,A,S			PG
	SWMU No. N4505/6	Former Leach Field	10	3-10	2/1(1d)	CG,A			PG, S
	AOC No. N4505/1	Removed Hangar UST	10	3-10	2/1(1d)	CG,A,S		PG	
	AOC No. N4505/2	Removed NW Wing UST	10	3-10	2/1(1d)	CG,A,S		PG	
	AOC No. N4505/3	Air Compressor and Coolant Radiator	10	3-10	2/1(1d)	A,S	CG,PG		
	AOC No. N4505/4	Former Leaking Transformer Unit	10	3-10	2/1(1d)	CG,A,S	PG		

[A] - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)
[B] - Some units originally in OU 7 were reassigned to OU 8 or OU 10
A - Potential for release to air
CG - Current potential for release to soils and groundwater
PG - Past potential for release to soils and groundwater
S - Potential for generation of subsurface gas

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TABLE 3-1. BWM SWMUs, AOCs, AND RELEASE POTENTIALS
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Facility	SWMUs & AOCs		Operable Unit[B]	Figure No.	Plate No./ Sheet No. (BCP)[A]	Release Potential			
						Low	Mod.	High	Unknown
Building 4511	SWMU No. N4511/1	Filter Separator	10	3-10	2/1(1d)	CG,PG,A,S			
	SWMU No. N4511/2	Floor Drains	10	3-10	2/1(1d)	CG,PG,A,S			
	SWMU No. N4511/3	Pit and Sump	10	3-10	2/1(1d)	CG,PG,A,S			
	SWMU No. N4511/4	Oil/Water Separator	10	3-10	2/1(1d)	CG,PG,A,S			
	SWMU No. N4511/5	Underground Fuel Recovery Tank	10	3-10	2/1(1d)	CG,PG,A,S			
	AOC No. N4511/1	Tank Farm	10	3-10	2/1(1d)	CG,A,S			PG
Building 4515	AOC No. N4515/1	Removed UST	10	3-10	2/1(1d)	CG,PG,A,S			
Old North Base	AOC No. N-ON/1	Former Special Fuels Storage	10	3-8	2/1(1d)	CG,A,S			PG
	AOC No. N-ON/2	Former Motor Repair Shop	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-ON/3	Former Utility Shop 1	10	3-7	2/1(1d)	CG,A,S			PG
	AOC No. N-ON/4	Former Utility Shop 2	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-ON/5	Former Inflammable Storage Shed	10	3-7	2/1(1d)	CG,A,S			PG
	AOC No. N-ON/6	Former Fire Station	10	3-7	2/1(1d)	CG,A,S			PG
	AOC No. N-ON/7	Potential Former Garage	10	3-11	2/1(1d)	A,S	CG		PG
	AOC No. N-ON/8	Equipment Burial Pit	10	3-11	2/1(1d)	A,S			CG,PG
Old North Base USTs	AOC No. N-UST/1	Former Gasoline Station	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/2	Former Aircraft Fuel Storage	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/3	Former Mess Hall Inactive UST	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/4	Former Lavatory Inactive UST1	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/5	Former Lavatory Inactive UST2	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/6	Former Infirmary Inactive UST	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/7	Former Field Distribution Inactive UST1	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/8	Former Field Distribution Inactive UST2	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/9	Former Officers' Quarters Inactive UST1	10	3-12	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/10	Former Officers' Quarters Inactive UST2	10	3-12	2/1(1d)	S	A	CG,PG	
	AOC No. N-UST/11	Abandoned UST	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/12	Inactive UST	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/13	Inactive Oil UST	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/14	Former Utility Shop UST1	10	3-11	2/1(1d)	CG,A,S			PG
	AOC No. N-UST/15	Former Utility Shop UST2	10	3-11	2/1(1d)	CG,A,S			PG
North Base Storm Drainage System	SWMU No. N-SD/1	East Drainage Endpoint	10	3-10	2/1(1d)	CG,A,S	PG		
Building 4790	AOC No. BW4790/1	Building 4790 Removed UST	7	3-13	1/1(-)	CG,A,S	PG		

[A] - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)
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TABLE 3-1. BWM SWMUs, AOCs, AND RELEASE POTENTIALS
(Page 5 of 8)

Facility	SWMUs & AOCs		Operable Unit[B]	Figure No.	Plate No./ Sheet No. (BCP)[A]	Release Potential			
						Low	Mod.	High	Unknown
Building 4946	SWMU No. BW4946/1	Scrubber Unit	8	3-14	2/2(2a)	CG,PG,A,S			
	SWMU No. BW4946/2	Accumulation Point	8	3-14	2/2(2a)	CG,PG,A,S			
Building 4948	SWMU No. BW4948/1	Underground Pipe and Discharge Area	8	3-14	2/2(2a)	CG,A,S	PG		
Building 4949	AOC No. BW4949/1	TCE Storage Area	8	3-14	2/2(2a)	CG,A,S	PG		
Building 4951	SWMU No. BW4951/1	Catch Tank 1	8	3-14	2/2(2a)	CG,A,S			PG
Building 4959	SWMU No. BW4959/1	Underground Sump	8	3-14	2/2(2a)	A,S			CG,PG
	AOC No. BW4959/1	Drainage Area 1	8	3-14	2/2(2a)	CG,A,S	PG		
Building 4961	SWMU No. BW4961/1	Earthen Basin	8	3-14	2/2(2a)	CG,A,S	PG		
	AOC No. BW4961/1	Drainage Area 2	8	3-14	2/2(2a)	CG,A,S	PG		
Building 4962	SWMU No. BW4962/1	Wash Rack and Oil/Water Separator	8	3-14	2/2(2a)	A,S			CG,PG
Building 4964	AOC No. BW4964/1	Chemical Disposal Trench	8	3-14	2/2(2a)	A			CG,PG,S
Building 4965	SWMU No. BW4965/1	Catch Tank 2	8	3-14	2/2(2a)	S	A		CG,PG
Building 4970	AOC No. BW4970/1	Building 4970 Removed UST	8	3-15	2/4(2c)	CG,A,S	PG		
Building 4976	SWMU No. BW4976/1	Photochemical Discharge Area	8	3-16	2/2(2a)	CG,A,S		PG	
Building 5500	SWMU No. BW5500/1	Boiler Blowdown Flash Tank and Leach Field	7	3-17	2/8(3c/6a)	A,S	CG,PG		
	SWMU No. BW5500/2	Satellite Accumulation Point	7	3-17	2/8(3c/6a)	CG,PG,A,S			
	SWMU No. BW5500/3	Former Infectious Waste Incinerator	7	3-17	2/8(3c/6a)	CG,PG,A,S			
	SWMU No. BW5500/4	Infectious Waste Dumpsters	7	3-17	2/8(3c/6a)	CG,PG,A,S			
	AOC No. BW5500/1	Abandoned UST	7	3-17	2/8(3c/6a)	CG,A,S			PG
	AOC No. BW5500/2	Sump	7	3-17	2/8(3c/6a)	S	A	CG,PG	
	AOC No. BW5500/3	Removed UST	7	3-17	2/8(3c/6a)	CG,A,S			PG
	AOC No. BW5500/4	Diesel UST	7	3-17	2/8(3c/6a)	CG,A,S			PG
Building 5560	SWMU No. BW5560/1	Oil/Water Separator	7	3-18	2/8(3c/6a)	A,S			CG,PG
Building 5613	SWMU No. BW5613/1	Accumulation Point	7	3-19	2/12(6b)	S	A	CG,PG	
	AOC No. BW5613/1	Product Oil Drum	7	3-19	2/12(6b)	S	A	CG,PG	

[A] - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)
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A - Potential for release to air
CG - Current potential for release to soils and groundwater
PG - Past potential for release to soils and groundwater
S - Potential for generation of subsurface gas

TABLE 3-1. BWM SWMUs, AOCs, AND RELEASE POTENTIALS
(Page 6 of 8)

Facility	SWMUs & AOCs		Operable Unit[B]	Figure No.	Plate No./ Sheet No. (BCP)[A]	Release Potential			
						Low	Mod.	High	Unknown
Building 5780	AOC No. BW5780/1	Removed UST	7	3-20	2/13(6wd)	CG,A, S		PG	
Building 5790	SWMU No. BW5790/1	Septic System	7	3-21	1/1(57)	CG,A	PG	S	
Building 7992	SWMU No. BW7992/1	Oil/Water Separator	7	3-22	2/7(2wb)	S	A	CG,PG	
	AOC No. BW7992/1	Aboveground Storage Tanks	7	3-22	2/7(2wb)	S	A	CG,PG	
Building 8020	AOC No. BW8020/1	Removed UST	7	3-23	3/2(39)	CG,PG,A,S			
Building 8025	AOC No. BW8025/1	Removed UST	7	3-23	3/2(39)	CG,PG,A,S			PG
	AOC No. BW8025/2	Rubble Pile	7	3-23	3/2(39)	CG,A,S			
Building 8030	AOC No. BW8030/1	Removed UST	7	3-23	3/4(51)	CG,PG,A,S			
Building 8035	AOC No. BW8035/1	Removed UST	7	3-23	3/5(52)	CG,PG,A,S			
Building 8040	AOC No. BW8040/1	Active UST	7	3-23	3/5(52)	CG,PG,A,S			
Building 9500	SWMU No. BW9500/1	Satellite Accumulation Point	7	3-24	2/15(35a)	S	CG,PG,A		
Building 9501	SWMU No. BW9501/1	Dry Well	7	3-24	2/15(35a)	CG,A			PG,S
Building 9505	SWMU No. BW9505/1	Dry Well	7	3-24	2/15(35a)	CG,A,S		PG	
Building 9506	AOC No. BW9506/1	Fuel Station	7	3-24	2/15(35a)	A,S			CG,PG
Building 9511	SWMU No. BW9511/1	Wash Rack	7	3-24	2/15(35a)	A,S	CG,PG		
	SWMU No. BW9511/2	Earthen Pit	7	3-24	2/15(35a)	A,S		CG, PG	
	SWMU No. BW9511/3	Battery and Drum Storage Area	7	3-24	2/15(35a)	S	CG,PG,A		
	AOC No. BW9511/1	Oil Storage Sheds	7	3-24	2/15(35a)	S	CG,PG,A		
Downfall	SWMU No. BW-MRBS/1	Munitions Residue Burial Site	7	3-24	2/15(35a)	A,S	CG,PG		
Avenue A	SWMU No. BW-AA/1	Avenue A Unauthorized Disposal Site	7	3-25	1/1(-)	CG,A,S		PG	
CALNEV JP-4 Fuel Pipeline	AOC No. BW-CNP/1	CALNEV JP-4 Fuel Pipeline	7	-	1/1(-)	A,S			CG,PG

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S - Potential for generation of subsurface gas

TABLE 3-1. BWM SWMUs, AOCs, AND RELEASE POTENTIALS
(Page 7 of 8)

Facility	SWMUs & AOCs		Operable Unit[B]	Figure No.	Plate No./ Sheet No. (BCP)[A]	Release Potential			
						Low	Mod.	High	Unknown
Contractors Hill	SWMU No. BW-CH/1	Satellite Accumulation Point	8	3-26	2/4(2c)	A,S	CG,PG		
	SWMU No. BW-CH/2	Decontamination Pad	8	3-26	2/4(2c)	CG,PG,A,S			
	SWMU No. BW-CH/3	Drum Storage Area	8	3-26	2/4(2c)	CG,PG,A,S			
	AOC No. BW-CH/1	Painters' Compound	8	3-26	2/4(2c)	S	CG,PG	A	
	AOC No. BW-CH/2	Inactive UST	8	3-26	2/4(2c)	A,S			CG,PG
East Camp	SWMU No. BW-EC/1	Rifle Range	7	3-23	3/2(39)	A,S		CG,PG	
	AOC No. BW-EC/1	Abandoned UST	7	3-23	3/2(39)	CG,A,S			PG
	AOC No. BW-EC/2	Moving Target Machine Gun Range	7	-	3/3(45)	CG,A,S			PG
EOD Range	SWMU No. BW-EOD/1	Thermal Treatment Unit	7	3-27	1/1(-)	CG,S	PG	A	
	SWMU No. BW-EOD/2	Satellite Accumulation Point	7	3-27	1/1(-)	CG,PG,A,S			
	SWMU No. BW-EOD/3	Residue Pits	7	3-27	1/1(-)	A,S	CG,PG		
	SWMU No. BW-EOD/4	Disposal Area	7	3-27	1/1(-)	CG,PG,S		A	
Forbes Avenue	SWMU No. BW-FA/1	Uncontrolled Borrow Pit	8	3-28	2/5(2d)	A,S			CG,PG
Former Construction Staging Area	AOC No. BW-CSA/1	Drain Outfall	7	3-29	2/14(34b)	CG,A,S			PG
	AOC No. BW-CSA/2	Grease Pits	7	3-29	2/14(34b)	CG,A,S			PG
	AOC No. BW-CSA/3	Abandoned UST	7	3-29	2/14(34b)	CG,A,S			PG
	AOC No. BW-CSA/4	Debris Areas	7	3-29	2/14(34b)	CG,A,S			PG
Former Mojave Corporation Facility	AOC No. BW-MC/1	Grease Pits	7	3-23	3/3(45)	CG,A,S			PG
	AOC No. BW-MC/2	Abandoned UST	7	3-23	3/3(45)	CG,A,S			PG
Main Base Landfills	SWMU No. BW-LF/1	Abandoned Sanitary Landfill	7	3-22	2/7(2wb)			CG,PG,A,S	
	SWMU No. BW-LF/2	Active Sanitary Landfill	7	3-30	2/6(2wa)		CG,PG,A	S	
North Base Miscellaneous Areas	SWMU No. BW-NBM/1	North Asbestos Waste Pile	10	3-31	1/1(-)	CG,PG,A,S			
	SWMU No. BW-NBM/2	South Asbestos Waste Pile	10	3-31	1/1(-)	CG,PG,S	A		
	SWMU No. BW-NBM/3	Drum Disposal Area	10	3-31	1/1(-)	CG,A		PG	S
	SWMU No. BW-NBM/4	Dump Site	10	3-31	1/1(-)	CG,A			PG,S
	AOC No. BW-NBM/1	Drum Disposal Pit	10	3-31	1/1(-)	CG,A,S			PG
	AOC No. BW-NBM/2	Automobile Disposal Area	10	3-31	1/1(-)	CG,A,S			PG
	AOC No. BW-NBM/3	Former Missile Launch Site	10	3-31	1/1(-)	CG,A,S	PG		
	AOC No. BW-NBM/4	Former Leaking Transformer	10	3-31	1/1(-)	CG,A,S		PG	
North Gate Railroad Area	SWMU No. BW-NG/1	Tar Pit	10	3-31	1/1(-)	S	A	CG,PG	
	AOC No. BW-NG/1	Debris Site	10	3-31	1/1(-)	CG,A,S			PG

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CG - Current potential for release to soils and groundwater
PG - Past potential for release to soils and groundwater
S - Potential for generation of subsurface gas

TABLE 3-1. BWM SWMUs, AOCs, AND RELEASE POTENTIALS

(Page 8 of 8)

Facility	SWMUs & AOCs		Operable Unit[B]	Figure No.	Plate No./ Sheet No. (BCP)[A]	Release Potential			
						Low	Mod.	High	Unknown
Northwest Area	SWMU No. BW-NW/1	Former Rosamond Burning Dump	7	3-32	1/1(-)	CG,A,S	PG		
	SWMU No. BW-NW/2	Drum Disposal Site	7	3-32	1/1(-)	A,S		CG,PG	
Precision Impact Range Area	SWMU No. BW-PIRA/1	Burial Pits	7	-	-	CG,A,S			PG
	AOC No. BW-PIRA/1	PB1	7	3-33	-	CG,A,S			PG
	AOC No. BW-PIRA/2	PB8	7	3-33	-	CG,A,S			PG
	AOC No. BW-PIRA/3	PB10	7	3-33	-	A,S			CG,PG
	AOC No. BW-PIRA/4	PB6	7	3-34	-	CG,A,S			PG
	AOC No. BW-PIRA/5	HiX-4 Target	7	3-29	-	CG,A,S			PG
	AOC No. BW-PIRA/6	HiX-12 Target	7	3-35	-	CG,A,S			PG
	AOC No. BW-PIRA/7	West Gunnery Range	7	3-33	-	CG,PG,A,S			
	AOC No. BW-PIRA/8	East Gunnery Range	7	3-36	-	CG,PG,A,S			
	AOC No. BW-PIRA/9	Small Dry Lake Disposal Site	7	3-36	-	CG,A,S			PG
Rogers Dry Lake Drum Disposal Site	SWMU No. BW-DDS/1	IRP Subsites 1A, 1E	10	3-31	1/1(-)	CG,A,S	PG		
	SWMU No. BW-DDS/2	IRP Subsites 1B, 1C, 1D	10	3-31	1/1(-)	CG,A,S	PG		
South Base Rocket Sled Track	AOC No. BW-RS/1	Possible Disposal Area	7	3-37	3/1(17)	CG,A,S	PG		
	AOC No. BW-RS/2	Midpoint Service Area	7	3-37	3/1(17)	CG,A,S	PG		
	AOC No. BW-RS/3	Eastern Service Area	7	3-38	3/1(17)	CG,A,S			PG
	AOC No. BW-RS/4	Building 533 UST	7	3-38	3/1(17)	CG,S			PG,A
	AOC No. BW-RS/5	Building 545 UST	7	3-38	3/1(17)	CG,A,S			PG
	AOC No. BW-RS/6	Building 540 UST	7	3-38	3/1(17)	CG,S			PG,A
Southern Lancaster Boulevard Area	SWMU No. BW-LB/1	Tar Pit	7	3-39	1/1(-)	S	A	CG,PG	
	SWMU No. BW-LB/2	Dump	7	3-39	1/1(-)	CG,A,S	PG		
	SWMU No. BW-LB/3	Former Skeet Shooting Range	7	3-39	1/1(-)	A,S		CG,PG	
	AOC No. BW-LB/1	Former Gas Station	7	3-40	1/1(-)	CG,A,S			PG
	AOC No. BW-LB/2	Asphalt Dump	7	-	1/1(-)	CG,PG,A,S			
Southwest Area	SWMU No. BW-SW/1	Piute Ponds	7	3-40	1/1(-)	CG,A	S		PG
	SWMU No. BW-SW/2	Abandoned Landfill	7	-	1/1(-)				CG,PG,A,S
	AOC No. BW-SW/1	Sand Pit	7	-	1/1(-)	A,S		CG,PG	
Toxic Waste Disposal Site	SWMU No. BW-TW/1	Toxic Waste Disposal Site	8	3-41	2/9(4a)	CG,A,S		PG	

[A] - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)

[B] - Some units originally in OU 7 were reassigned to OU 8 or OU 10

A - Potential for release to air

CG - Current potential for release to soils and groundwater

PG - Past potential for release to soils and groundwater

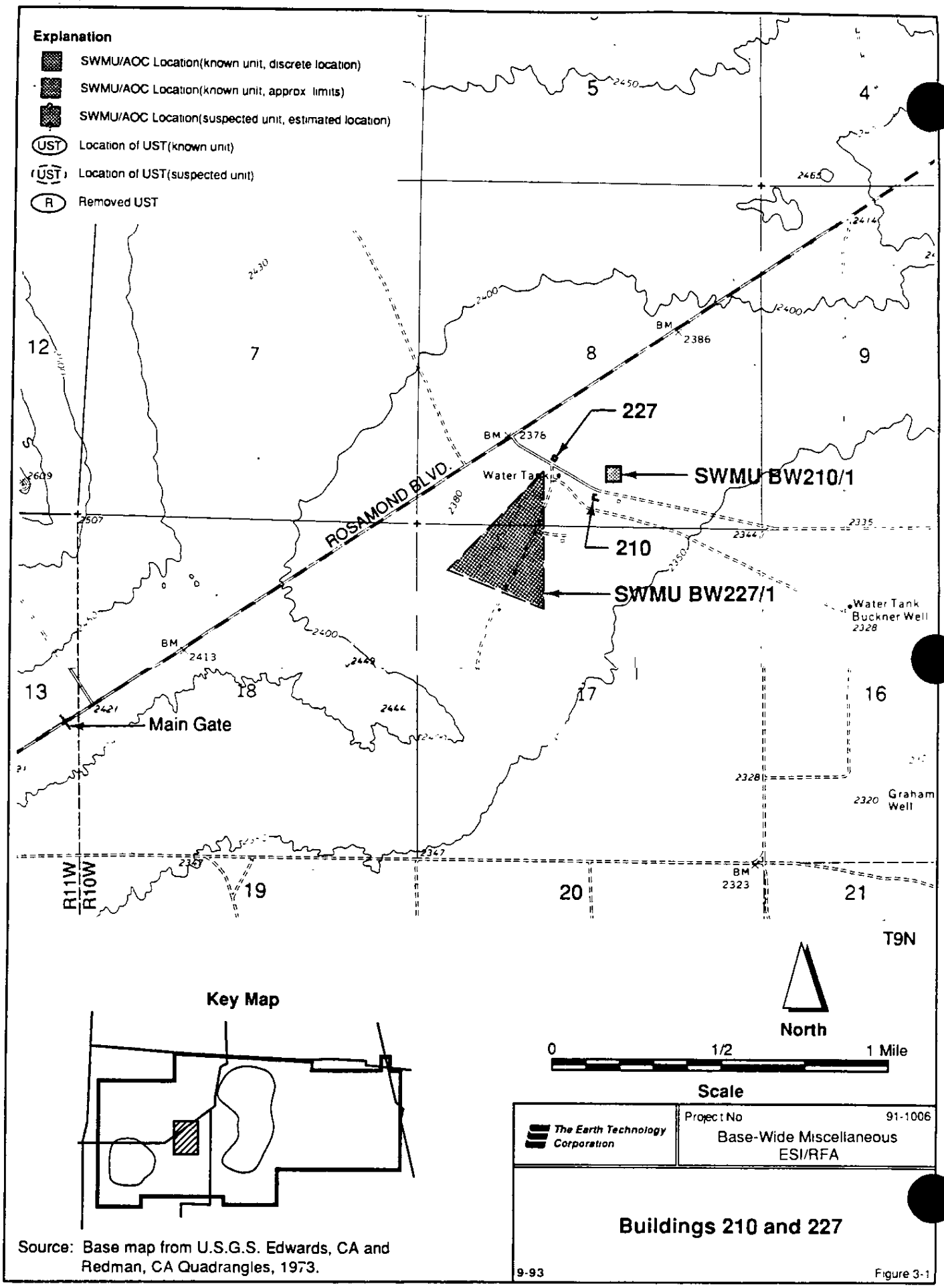
S - Potential for generation of subsurface gas

It should be noted that for some units there are only anecdotal reports of release. In these cases, for which there is no documented release, the release potential is assessed as moderate. Therefore, some units which appear in Table 3-1 as having a moderate release potential may in fact be serious problems. Such assessments are discussed further in the SWMU and AOC descriptions.

BUILDING 210

Building 210 is the control station for the Rod and Gun Club (Photo BW-95). It is located about 0.3 mile south of Rosamond Boulevard, 1.7 miles northeast of the main gate. The club has been at this location since the early 1950s. The club owns only one gun, which when cleaned does not generate waste. The building has an indoor pistol range. There is a Trap/Skeet Range (SWMU No. BW210/1) northeast of the building, across the access road. Lead from rounds fired at the airborne targets is scattered throughout the area (SF B-210).

The SWMU at Building 210 is shown in Figure 3-1 and described on the following page.



Source: Base map from U.S.G.S. Edwards, CA and Redman, CA Quadrangles, 1973.

The Earth Technology Corporation

Project No 91-1006

Base-Wide Miscellaneous ESI/RFA

Buildings 210 and 227

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Figure 3-1

SWMU No. BW210/1 Building 210 Trap/Skeet Range

INFORMATION SUMMARY: Site File B-210

LOCATION: The Trap/Skeet Range is located just northeast of Building 210, across the access road to the facility.

SIZE: The unit occupies an area of several acres.

MATERIALS: The unit consists of a parcel of land.

CONNECTIONS: None.

PURPOSE: The area is used by the Rod and Gun Club for trap and skeet shooting. Lead shot is scattered throughout the unit when the shots are fired at airborne targets.

START UP: Early 1950s. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages lead shot from rounds fired at airborne targets. The area is reportedly mined for lead (the top 2 inches to 4 inches of soil are run through a sieve) approximately once every 7 years.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Lead is in direct contact with the surrounding soils. It is not known if the lead is solubilized and released to groundwater.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high since lead is in direct contact with soils in the area.

Air - The potential for release to the atmosphere is low since the waste managed is not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since organic wastes are not handled.

RECOMMENDATION: Further investigation. Sample (PRL 296).

BUILDING 227

Building 227, located approximately 1.5 miles northeast of the main gate and less than 0.2 mile south of Rosamond Boulevard, is the control station for the small arms range. It is run by the 6500th SPS/SPC. At Building 227, small arms are cleaned using PD-680, a petroleum distillate. The product solvent is contained in small cans; solvent is allowed to evaporate from the arms, resulting in no liquid hazardous wastes. The Small Arms Firing Range (SWMU No. BW227/1), used for target practice, is southwest of the building. Lead from rounds fired at targets is not collected from the range (SF B-227).

The SWMU at Building 227 is shown in Figure 3-1 and described on the following page.

SWMU No. BW227/1 Building 227 Small Arms Firing Range

INFORMATION SUMMARY: Site File B-227

LOCATION: The Small Arms Firing Range is located southwest of Building 227, across the access road.

SIZE: Maps show the bullet impact area as covering approximately 120 acres, extending to the southwest from the firing area near Building 227. However, most bullets are probably concentrated in the target areas near the firing area.

MATERIALS: The unit consists of a parcel of land. Some native soils have been piled up behind the targets.

CONNECTIONS: None.

PURPOSE: The unit is used for firing small arms at targets.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages lead from bullets used in target practice. Lead is probably concentrated around the targets, but small amounts may be widely dispersed in the area. Reportedly, lead is not periodically collected from the ground.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Lead is in direct contact with the surrounding soils. It is not known if the lead is solubilized and released to groundwater.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high since lead is in direct contact with soils in the area.

Air - The potential for release to the atmosphere is low since the waste managed is not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since organic wastes are not handled by the unit.

RECOMMENDATION: Further investigation. Sample (PRL 296).

BUILDING 2110

Building 2110, the Army and Air Force Exchange Service (AAFES) gas station, is located on the southwestern corner of Fitzgerald Boulevard and Lancaster Avenue. The gas station is a government-owned, contractor-operated facility. The pump islands and original underground storage tanks (USTs) were installed around 1960; Building 2110 was added in 1964 (SF B-2110).

The inside of Building 2110 is partitioned into office/shop space and a garage area containing two service bays. The larger bay has a self-contained Parts Cleaner (SWMU No. BW2110/1), which is emptied on an as-needed basis. There is also a hydraulic jack with an associated tank containing compressed air and hydraulic fluid. The entire system is self-contained and has no history of release. However, staining was observed on the floor around the tank and hydraulic lift. There are two floor drains in the larger bay, each connected to one of two Grease Traps (SWMU No. BW2110/2). The floors are washed at least twice per week, with all rinsewater emptying into the floor drains. At the time of the VSI, one of the floor drains contained a very oily substance and debris. The other drain was not inspected (SF B-2110).

The smaller lube bay has no interior floor drains. Rinsewater apparently runs out the garage doors and into the Exterior Lube Bay Drain (AOC No. BW2110/1). One storage locker containing product paints and oils is located in the lube bay. A former service bay, located on the southeastern side of the station, is used today as storage space. Reportedly, the Storage Area Drain (AOC No. BW2110/2) often overflowed (SF B-2110).

On the northern side of the facility, facing the intersection of Fitzgerald Boulevard and Lancaster Avenue, are three fuel islands for pumping gas. The pump islands are supplied by four Fiberglas USTs installed in 1983, and one steel Active UST (AOC No. BW2110/3) installed earlier (circa 1960). Two steel Inactive USTs (AOC No. BW2110/4), installed around 1960, were emptied and filled with sand when the Fiberglas USTs were installed. These two tanks and the Active UST are slated to be removed under the base USTI program (SF B-2110; Earth Technology, 1991a).

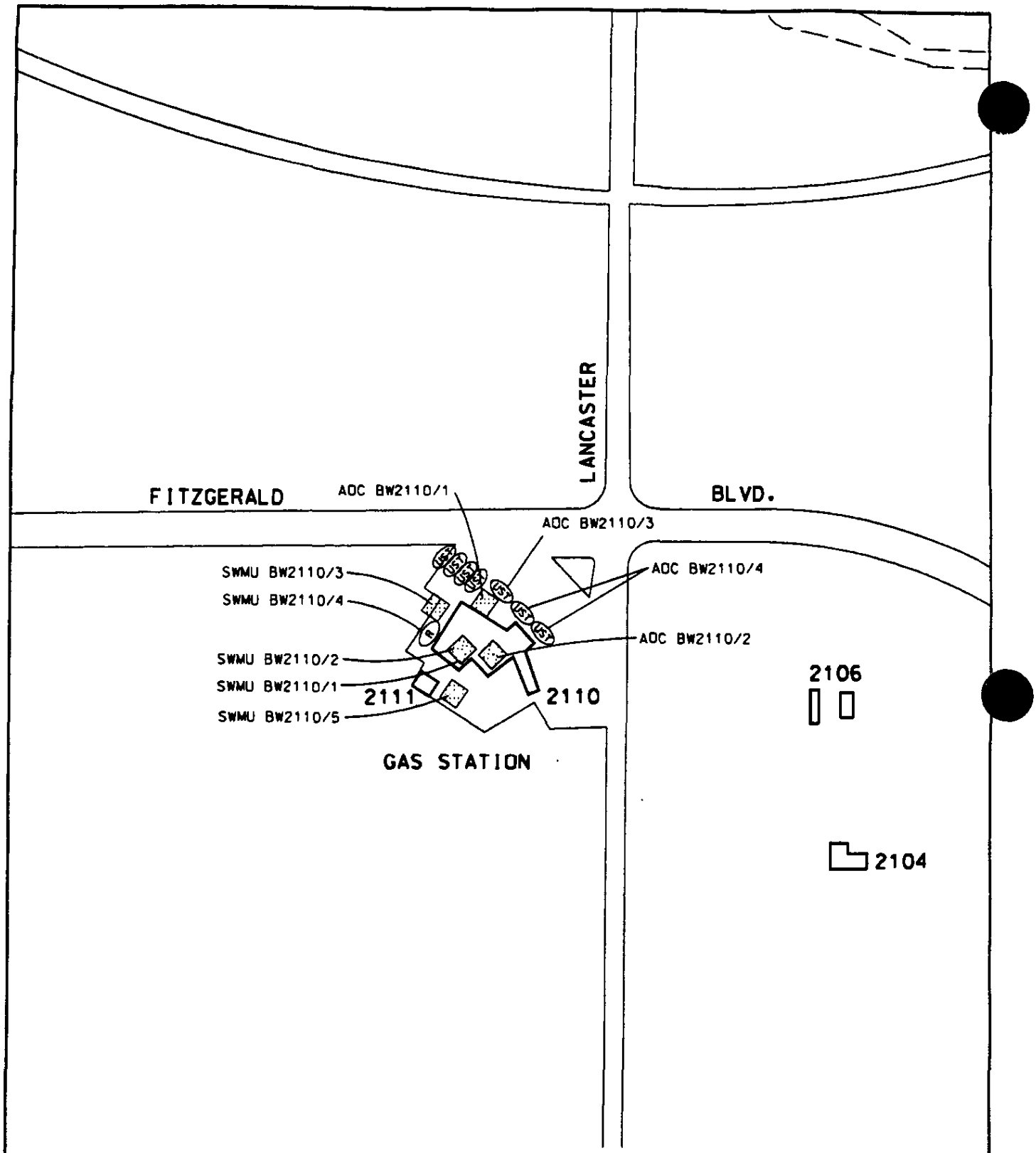
From west to east, the Fiberglas tanks are identified as Tank Nos. M048 (6,000 gallons diesel), M049 (10,000 gallons regular gasoline), M050 (10,000 gallons super unleaded gasoline) and M051 (10,000 gallons unleaded gasoline). These double-walled tanks provide secondary containment and are thus not identified as AOCs in this document. The steel 10,000-gallon Active UST (Tank No. M052) containing unleaded gasoline is located east of the four Fiberglas tanks. Tank Nos. M051 and M052 are manifolded together. Three of the 10,000-gallon-capacity tanks (Tank Nos. M049, M050 and M051) are permitted both by Kern County Department of Environmental Health and the Kern County Air Pollution Control District. Tank No. M048 passed a full system integrity test in November 1990, and Tank Nos. M050 through M052 passed leak detection tests in January 1991 (EAFB-D-114). Tank No. M049 failed four, full-system integrity tests in February 1991 (EAFB-D-114). The reason for the failures was

determined to be a vapor leak resulting from a faulty cap on the top of the tank. The cap was reportedly repaired, and the tank passed an integrity test after the repair was completed. Reportedly, no liquid fuel leaked from the tank. All the pipes leading from the tanks to the pump islands were replaced with double-walled pipes in late 1991 (SF B-2110; Earth Technology, 1991a). All five tanks passed integrity tests in 1993 (EAFB-D-117).

AAFES manages an Accumulation Point (SWMU No. BW2110/3) located on the northwestern side of the facility. It consists of one drum of waste petroleum, oils, and lubricants (POL). The 55-gallon drum replaced a formerly leaking, removed waste oil UST (SWMU No. BW2110/4) that was removed from the northwestern side of the building in April 1991 (SF B-2110; Earth Technology, 1992a).

Building 2111 also falls under AAFES jurisdiction. The building is used as a storage facility for waste batteries, which are collected by an independent contractor. Acid-filled batteries sit on wooden pallets or on the concrete floor while dry batteries are stored on metal shelves. Adjacent to Building 2111 is a Wash Rack/Grease Trap (SWMU No. BW2110/5) which is currently in use. There is one floor drain associated with this unit (SF B-2110).

The SWMUs and AOCs associated with Building 2110 are shown in Figure 3-2 and described on the following pages.



SWMU/AOC LOCATION (known unit, discrete location)

SWMU/AOC LOCATION (known unit, approx. limits)

SWMU/AOC LOCATION (suspected unit, estimated location)

(UST) LOCATION OF UST (known unit)

(UST) LOCATION OF UST (suspected unit)

(R) REMOVED UST

The Earth Technology Corporation

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BASE WIDE MISCELLANEOUS ESI / RFA

Building 2110

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Figure 3-2

EDWARDS\9100621\A0228MPB.A03

SWMU No. BW2110/1 Building 2110 Parts Cleaner

INFORMATION SUMMARY: Site File B-2110; Photo BW-1

LOCATION: The unit is located in the service bay area of the AAFES gas station.

SIZE: The unit is approximately 3 feet square and 3 feet high.

MATERIAL: The unit consists of a metal sink which sits on a 55-gallon drum.

CONNECTIONS: None; the unit is self-contained.

PURPOSE: The unit is used to remove oil and grease from equipment and parts used by the gas station.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages solvent containing waste oil, grease, and hydraulic fluids. It is serviced by Safety-Kleen.

RELEASE CONTROLS: The unit is located indoors and sits on a concrete floor.

HISTORY OR EVIDENCE OF RELEASE: None.

VSI COMMENTS: The area surrounding the unit appeared heavily stained. Spillage from use of the unit may be rinsed into the Grease Traps (SWMU No. BW2110/2) when the floor is cleaned.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since the unit is located indoors on a concrete floor. Heavy staining that was observed surrounding the unit may indicate a release through the grease traps (see SWMU No. BW2110/2).

Air - The potential for release to the atmosphere is low since the unit is covered.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit is above ground and wastes that might generate such gases are not handled.

RECOMMENDATION: No further investigation.

SWMU No. BW2110/2 Building 2110 Grease Traps

INFORMATION SUMMARY: Site File B-2110; Photos BW-2 and BW-3

LOCATION: The units are located in the center of the service bay area of the AAFES gas station.

SIZE: Each unit measures approximately 2 feet by 4 feet.

MATERIAL: Each two-chambered unit is flush with the concrete floor and consists of a floor drain and a self-contained chamber for waste material.

CONNECTIONS: Rinsewater drains into the units, which separate the heavy oils from water. Water is discharged to the sewer main, while sludge and oils are retained.

PURPOSE: The purpose of the units is to collect rinsewater from the floor of the service area. Oils and heavy sludge are retained by the two-partition system.

START UP: 1964. **DEACTIVATED:** Currently active.

WASTES MANAGED: The units manage waste oils and sludge generated from daily activities. Reportedly, the units have not been cleaned since at least 1978.

RELEASE CONTROLS: The units are designed to prevent oil and grease from entering the sewer main.

HISTORY OR EVIDENCE OF RELEASE: None.

VSI COMMENTS: At the time of the VSI, the second partition of one grease trap was filled with a yellow, oily liquid and debris. The other grease trap was not inspected.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the units and sewer lines is unknown. It seems likely that some oils and sludge overflow into the sewer main, based on the infrequency of cleanout for the unit.

Air - The potential for release to the atmosphere is low since wastes managed are not highly volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since heavy oils and grease are not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Check integrity of unit.

SWMU No. BW2110/3 Building 2110 Accumulation Point

INFORMATION SUMMARY: Site File B-2110; Photo BW-4

LOCATION: The 90-day unit is located on the northwestern side of the AAFES gas station.

SIZE: The unit occupies an area of approximately 5 square feet.

MATERIAL: The unit consists of one 55-gallon drum.

CONNECTIONS: None.

PURPOSE: The unit is used as a storage area for waste materials generated at the AAFES gas station.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages waste oils, lubricants, hydraulic fluids and grease.

RELEASE CONTROLS: None, the unit sits on bare ground.

HISTORY OR EVIDENCE OF RELEASE: Heavily stained soils were observed surrounding the drum, probably due to a formerly leaking but now removed UST (SWMU No. BW2110/4) in the same area.

VSI COMMENTS: At the time of the VSI, the soils surrounding the Accumulation Point appeared heavily stained, probably due to leaking or overfill of the Removed UST in the same area.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate since the unit does not have adequate containment.

Air - The release potential to the atmosphere is low since the drum is closed when not in use.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the wastes handled are not expected to degrade significantly to methane gas.

RECOMMENDATION: No further investigation. Provide secondary containment.

SWMU No. BW2110/4 Building 2110 Removed Waste Oil UST

INFORMATION SUMMARY: Site File B-2110; Photo BW-4; Earth Technology (1992a)

LOCATION: The unit (Tank No. M040) was located approximately 15 feet northwest of the northwestern wall of the AAFES gas station.

SIZE: The unit had a capacity of 450 gallons.

MATERIAL: The unit was constructed of single-walled steel.

CONNECTIONS: A pipeline running from a waste oil drain inside the building discharged to the waste oil tank.

PURPOSE: The unit was used to store waste oils generated at the AAFES gas station.

START UP: 1959. **DEACTIVATED:** 1991.

WASTES MANAGED: The unit managed waste oils. It was reportedly emptied approximately once a month by AFFTC/EM.

RELEASE CONTROLS: The unit was an underground, steel tank under an asphalt cover.

HISTORY OR EVIDENCE OF RELEASE: At the time of tank removal, the UST was observed to have holes from 1/8 inch to 1/4 inch in diameter. The soil around the tank was stained black and had a strong hydrocarbon odor. Soil samples were obtained from 1 foot and 6 feet below the tank (7 feet and 12 feet below grade) and analyzed for oil and grease (EPA Method 413.1), organic lead (CDHS/SW7420), and chlorinated organic solvents (EPA Method 8010). Oil and grease ranged from 498 mg/kg in the 6-foot sample to 21,160 mg/kg in the 1-foot sample. Dichloromethane, 1,1,1-trichloroethane, tetrachloroethene, and 2-chlorotoluene were detected at respective concentrations of 0.30 mg/kg, 0.23 mg/kg, 4.76 mg/kg, and 2.86 mg/kg in the sample obtained from 1 foot below the tank. Organic lead was not detected.

VSI COMMENTS: The soils surrounding the UST appeared heavily stained.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high since the unit is known to have leaked into the surrounding soils. The current release potential is low since the unit was removed.

Air - The potential for release to the atmosphere is low since contamination is subsurface beneath clean backfill.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since waste oil is not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (Site 297).

SWMU No. BW2110/5 Building 2110 Wash Rack/Grease Trap

INFORMATION SUMMARY: Site File B-2110; Photo BW-5

LOCATION: The unit is located 50 feet southwest of Building 2110.

SIZE: The unit is approximately 36 feet by 23 feet.

MATERIAL: The base of the Wash Rack is concrete.

CONNECTIONS: The Wash Rack slopes to a central floor drain which discharges to a Grease Trap. Wastewater is channeled to the sewer main and the grease is contained until cleanout is arranged through AFFTC/EM.

PURPOSE: The unit is used to wash vehicles, in particular, Ryder trucks.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages rinsewater, possibly contaminated with POL, from vehicle washing.

RELEASE CONTROLS: The Wash Rack is constructed on a concrete pad which slopes to a floor drain connected to a Grease Trap.

VSI COMMENTS: The unit appeared to be well managed although slight staining was observed in an area surrounding the floor drain.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current release potential to soils and groundwater is unknown since the integrity of the Grease Trap and frequency of cleanout are unknown.

Air - The release potential to the atmosphere is low since wastes handled are not very volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since waste POL is not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Check unit integrity.

AOC No. BW2110/1 **Building 2110 Exterior Lube Bay Drain**

INFORMATION SUMMARY: Site File B-2110

LOCATION: The unit is located outside the lube bay area in the AAFES gas station (Building 2110).

SIZE: The unit measures approximately 2 feet square.

PROBABLE WASTES: The unit manages waste oils, grease, and hydraulic fluids generated in the lube bay area.

CONCERN: Because the lube bay area does not have any interior floor drains, rinsewater and other possibly contaminated liquids are released into the unit. According to the facility manager, the unit sometimes clogs and, at least once, a green liquid overflowed from the unit.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since the unit has reportedly overflowed at least once. The current release potential is unknown since the integrity of the unit is unknown.

Air - The potential for release to the atmosphere is low since wastes handled are not very volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Sample (Site 297).

AOC No. BW2110/2 Building 2110 Storage Area Drain

INFORMATION SUMMARY: Site File B-2110

LOCATION: The unit is located in a former service bay area inside of the AAFES gas station. The area is today used as a storage room.

SIZE: The unit measures approximately 2 feet square.

PROBABLE WASTES: The unit may have managed waste oil and grease generated from activities in the former service bay area.

CONCERN: According to the facility manager, the unit often overflowed in the past, when the area was used as a service bay. At the time of the VSI, the concrete surrounding the unit appeared heavily stained, although vehicles have not been serviced in the area since 1982.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since the unit has reportedly overflowed at least once. The current potential is unknown since the integrity of the unit is unknown.

Air - The potential for release to the atmosphere is low since the unit no longer handles hazardous waste.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Sample (Site 297).

AOC No. BW2110/3 **Building 2110 Active UST**

INFORMATION SUMMARY: (Site File B-2110; Photos BW-6 and BW-7; Document EAFB-D-79, EAFB-D-114, and EAFB-D-117)

LOCATION: The unit (Tank No. M052) is located approximately 15 feet north of Building 2110, and is underneath a concrete ground cover.

SIZE: The steel UST has a capacity of 10,000 gallons.

PROBABLE WASTES: The tank currently contains unleaded gasoline. Its contents prior to 1983 are unknown.

CONCERN: The tank was installed in 1960 and is constructed of single-walled steel. The unit passed integrity tests in 1991 and 1993.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the tank passed tank integrity tests in 1991 and 1993.

Air - The potential for release to the atmosphere is low since the unit is below ground.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since gasoline is not expected to degrade to a significant extent to methane gas.

RECOMMENDATION: No further investigation. Continue routine integrity tests.

AOC No. BW2110/4 **Building 2110 Inactive USTs**

INFORMATION SUMMARY: (Site File B-2110; Photos BW-6 and BW-7; Document EAFB-D-79)

LOCATION: The units (Tank Nos. M079 and M088) are located approximately 15 feet north of Building 2110, underneath a concrete ground cover.

SIZE: The two steel USTs each have a capacity of 10,000 gallons.

PROBABLE WASTES: The past contents of the tanks are unknown; the tanks are now filled with sand.

CONCERN: The two tanks were installed in 1960. They are constructed of steel.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the integrity of the tanks when is use is unknown. The current potential for release is low since the tanks are now filled with sand.

Air - The potential for release to the atmosphere is low since the units are below ground and are filled with sand.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since petroleum products are not expected to degrade to a significant extent to methane gas.

RECOMMENDATION: Further investigation. Sample (Site 297).

BUILDING 2340

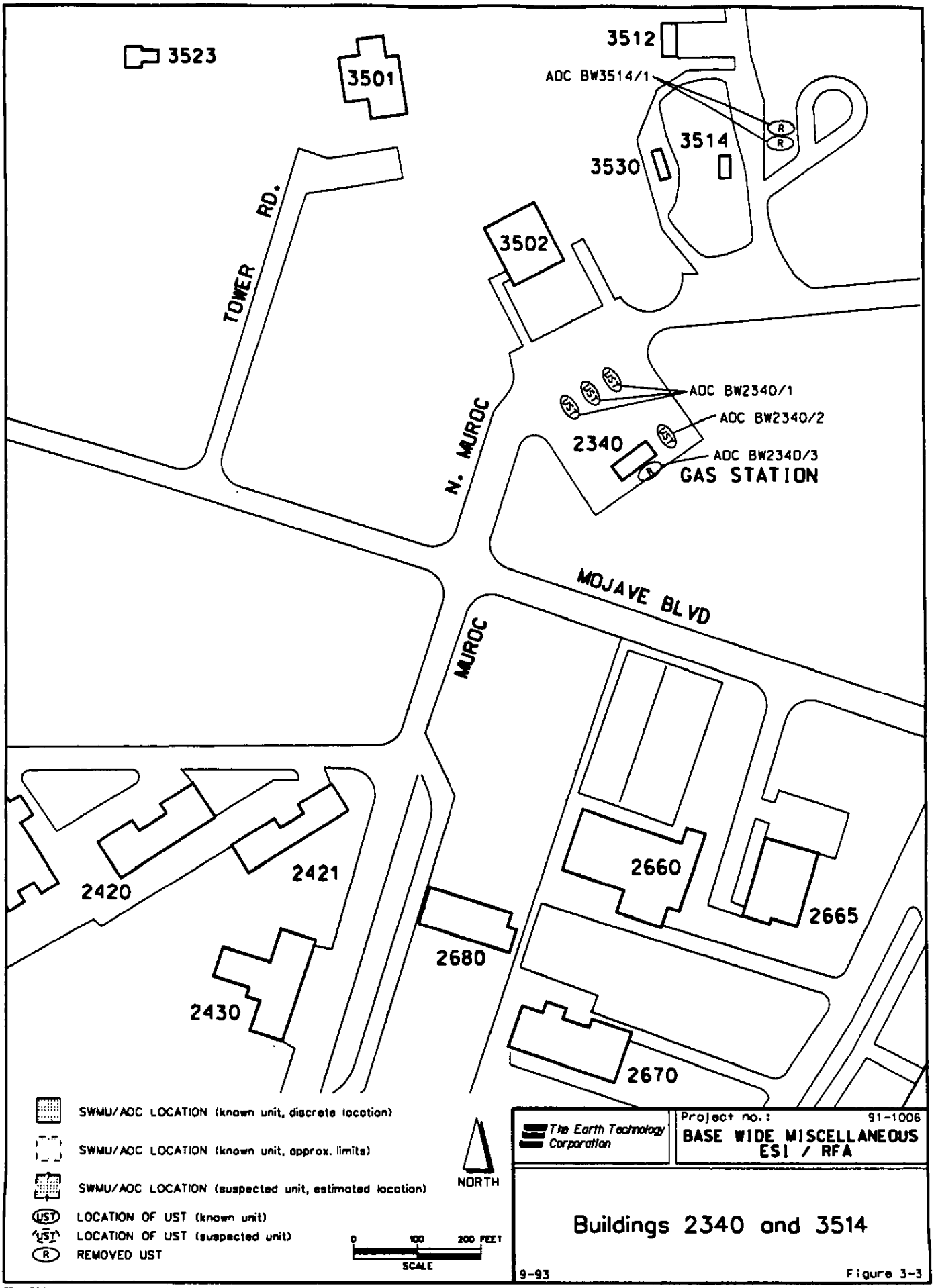
Building 2340 is a garage associated with a military gas station located on North Muroc Drive north of Mojave Boulevard. The garage was reportedly constructed in 1956, and is under the jurisdiction of the 6500th Supply Squadron. Before 1971, the gas station consisted of two pump islands located northwest of Building 2340, supplied by two USTs, presumably containing leaded gasoline. As-built drawings show that a third UST was installed adjacent to and east of the existing tanks in 1971. The three Active USTs (AOC No. BW2340/1) each have a 10,000-gallon capacity. Today, the two older tanks (Tank Nos. M018 and M019) contain unleaded gasoline and the third tank (Tank No. M020) contains leaded gasoline (Mogas). In September 1990, leakage was found associated with the turbine pumps for the two unleaded tanks. The leaks were repaired and all three tanks subsequently passed leak integrity (pressure) tests in September 1990 and March/April 1993 (EAFB-D-114 and EAFB-D-117).

A removed pump island and an Inactive Diesel UST (AOC No. BW2340/2) are located east of Building 2340. The Fiberglas diesel tank (Tank No. M021) has been variously reported to have a capacity of 8,000, 10,000 or 12,000 gallons. It failed a leak test in September 1990 (EAFB-D-114), and was immediately taken out of service. The associated fuel pump was removed. The tank is scheduled for removal under the base USTI program. Two aboveground storage tanks (AGTs) were installed southwest of the garage facility to replace the diesel UST (SF B-2340; Earth Technology 1991a).

In October 1990, the entire gas station was temporarily closed for renovation and cable maintenance along the facility's northern boundary. At the time of the VSI in May 1991, the security police were using the garage bays in Building 2340 as storage areas. Normally, minor automobile repair work is conducted in these bays. The gas station was reopened in July 1991 (SF B-2340).

A 100-gallon Removed Waste Oil UST (AOC No. BW2340/3) was formerly located adjacent to the building's southern wall. The tank was removed by the Air Force in 1986. Reportedly, soil samples were taken; however Earth Technology was unable to obtain sampling results. Presumably the tank had been installed when the facility was built in 1956 (EAFB-D-79).

The AOCs at Building 2340 are shown in Figure 3-3 and described on the following pages.



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AOC No. BW2340/1 **Building 2340 Active USTs**

INFORMATION SUMMARY: Site File B-2340; Photo BW-111; Earth Technology (1991a); Documents EAFB-D-114 and EAFB-D-117

LOCATION: The units (Tank Nos. M018, M019, and M020) are located approximately 100 feet northwest of Building 2340. The ground surface surrounding the tanks is asphalt, and the associated pump islands are on a concrete pad.

SIZE: The three steel USTs each have a capacity of 10,000 gallons.

PROBABLE WASTES: Two USTs store unleaded gasoline. The third, easternmost tank (Tank No. M020) formerly stored Mogas, but now stores unleaded gasoline. All three tanks hold a Kern County Air Pollution Control District Permit to Operate.

CONCERN: The two unleaded gasoline tanks were installed before 1971, possibly as early as 1956. The Mogas tank was installed in 1971. All three area single-walled. In September 1990, leakage was found at the turbine pumps associated with the two unleaded gasoline USTs. The leaks were repaired and all three tanks subsequently passed leak integrity tests in 1990 and 1993.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high since leakage was detected at the underground turbine pumps associated with the two unleaded tanks in 1990. The current potential for release is low since the leaks were repaired and all three tanks subsequently passed leak integrity tests.

Air - The potential for release to the atmosphere is low since the units are below ground and passed leak integrity tests.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since gasoline is not expected to degrade to a significant extent to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 298).

AOC No. BW2340/2 Building 2340 Inactive Diesel UST

INFORMATION SUMMARY: Site File B-2340; Earth Technology (1991a)

LOCATION: The unit (Tank No. M021) is located approximately 50 feet east of Building 2340. The tank and associated pump island are located on a concrete pad.

SIZE: The UST capacity has variously been reported at 8,000, 10,000, or 12,000 gallons.

PROBABLE WASTES: The Fiberglas UST stored product diesel fuel.

CONCERN: It is unknown when the diesel tank was installed, but it does not appear in a 1971 as-built drawing showing the Active USTs (AOC No. BW2340/1). The Inactive Diesel UST failed a leak test in September 1990; the fluid level in the tank kept falling despite the addition of approximately 200 gallons of fuel. The tank was immediately taken out of service and replaced by two AGTs. The unit remains in place, but is scheduled for removal under the base USTI program.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high since the unit failed a leak test conducted in September 1990. The current potential for release is low since the unit has been taken out of service.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since diesel fuel is not expected to degrade to a significant extent to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 298).

AOC No. BW2340/3 Building 2340 Removed Waste Oil UST

INFORMATION SUMMARY: Document EAFB-D-79

LOCATION: The unit (Tank No. M100) was located adjacent to the building's southern wall. The ground surface surrounding the tank was asphalt.

SIZE: The unit had a capacity of 100 gallons.

PROBABLE WASTES: The unit was used to store waste oil and, presumably, other waste petroleum products such as lubricants and grease.

CONCERN: The unit was possibly installed in 1956 and was probably constructed of single-walled steel. Based on past experience with other USTs the tank may have corroded. Since the tank was removed in 1986 and no records are available of samples collected, it is unknown whether the soil surrounding the tank was contaminated or stained.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since waste disposal practices and the integrity of the unit are unknown. The current potential for release is low since the tank was removed.

Air - The potential for release to the atmosphere is low since the unit was below ground.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since waste oil is not expected to degrade to a significant extent to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 298).

BUILDING 2450

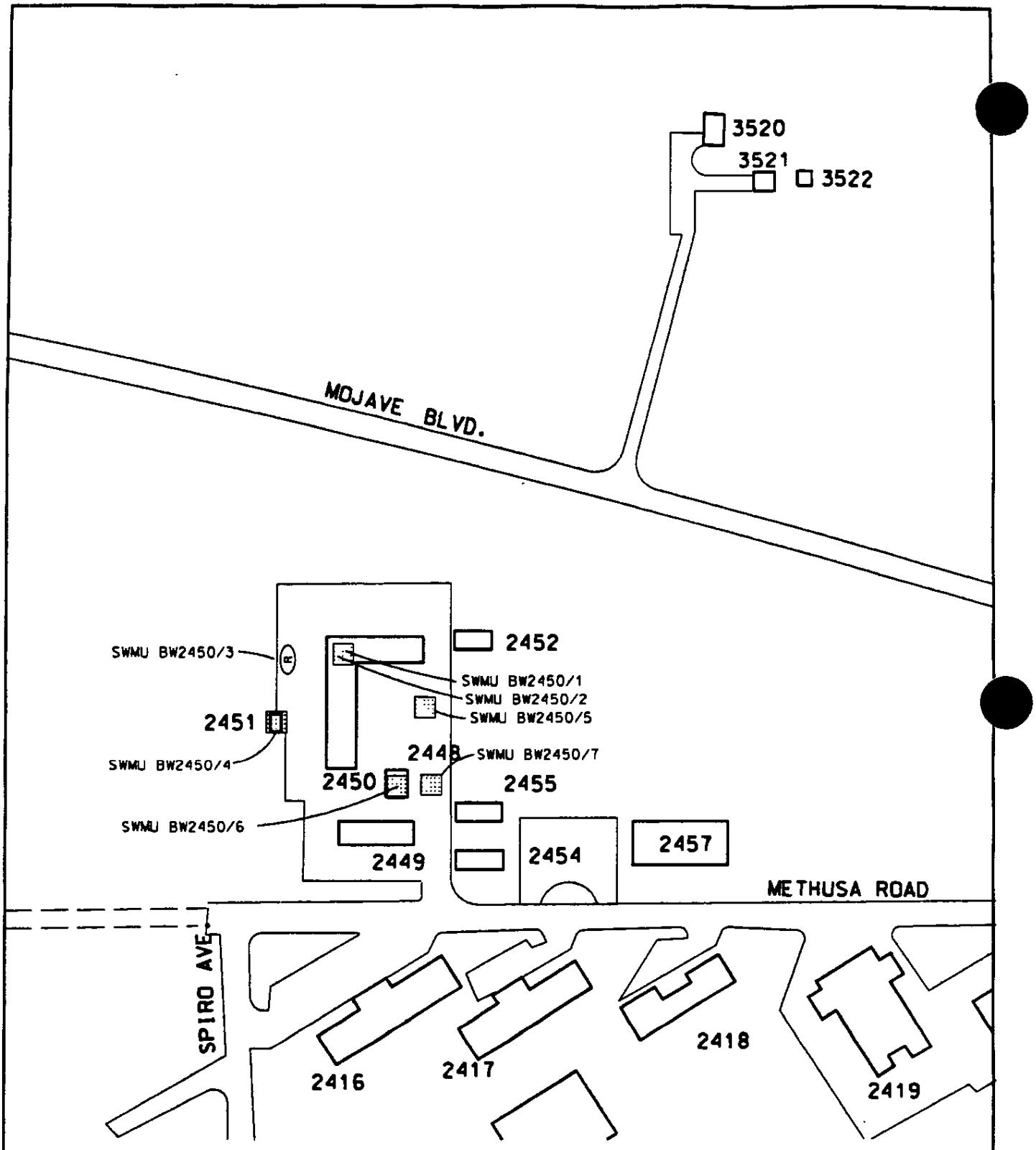
Building 2450, the Auto Hobby Shop, is under the jurisdiction of the 650th Air Base Wing/Morale, Welfare and Recreation Division (ABW/MWR) (formerly the 6500th SW/SSRA). It is located on Methusa Road. The Auto Hobby Shop has been in existence for at least 20 years. It was first established to provide airmen with an area where they could work on their vehicles while off duty. It has since been opened to civilian employees and Air Force family members. The southern portion of Building 2450 houses specialty shops, including ceramics and wood working areas, and a Recycling Center for newspapers and aluminum cans (SF B-2450).

Auto Hobby Shop personnel are tasked with providing maintenance on Morale, Welfare, and Recreation (MWR) vehicles. Auto repair work is conducted in the northern portion of the building in a large service area equipped with hydraulic jacks, a tool and parts crib, and other vehicle maintenance equipment. The facility manages a self-contained Parts Cleaner (SWMU No. BW2450/1) that uses a solvent which is changed out approximately monthly. There is also a Waste Oil Disposal Sink (SWMU No. BW2450/2) which was connected to a Removed Waste Oil UST (SWMU No. BW2450/3) located on the far northwestern side of the parking area around Building 2450. At the time of the VSI in April 1991, the ground surrounding the Waste Oil UST was heavily stained and appeared to be saturated. Personnel indicated that the unit was not routinely drained in the past and had overflowed on at least one occasion. The tank was removed in August 1992 (SF B-2450).

The Auto Hobby Shop manages a car wash (Building 2451) south of the Removed Waste Oil UST. Rinsewater generated during vehicle washing drains to an Oil/Water Separator (SWMU No. BW2450/4) from which liquid is discharged to the main sewage system. A Used Battery Storage Area (SWMU No. BW2450/5) is located east of the Auto Hobby Shop. The used batteries are stored on wooden pallets until picked up by the recycling contractor. West of the Used Battery Storage Area, three metal cabinets are used to store product hydraulic fluid and oils (in 1-pint bottles) for use by Special Projects personnel (SF B-2450).

Building 2448, located southeast of the Auto Hobby Shop, also falls under the jurisdiction of the 650th ABW/MWR. This facility, constructed on a concrete pad, is used as a paint shop for vehicles and other large-scale items. It has a Paint Booth Exhaust System (SWMU No. BW2450/6) that is permitted by the Kern County Air Pollution Control District. A hazardous waste Accumulation Point (SWMU No. BW2450/7) for recoverable waste oils is located east of Building 2448. Some product oils, paints and solvents are also stored in this area.

The SWMUs associated with Building 2450 are shown in Figure 3-4 and described on the following pages.



The Earth Technology Corporation

Project no.: 91-1006

BASE WIDE MISCELLANEOUS ESI / RFA

Building 2450

9-93

Figure 3-4

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SWMU No. BW2450/1 Building 2450 Parts Cleaner

INFORMATION SUMMARY: Site File B-2450; Photo BW-9

LOCATION: The unit is located in the garage bay area of Building 2450, against the northwest wall.

SIZE: The unit is approximately 2 feet by 4 feet by 4 feet high.

MATERIAL: The unit is constructed of stainless steel.

CONNECTIONS: None.

PURPOSE: The Parts Cleaner is used to remove oil and grease from equipment and auto parts.

START UP: Estimated 1970. **DEACTIVATED:** Currently active.

WASTES MANAGED: A solvent is used to remove waste motor oil, lube oil and grease from auto parts. The solvent is changed out once per month by Safety-Kleen.

RELEASE CONTROLS: The unit sits on a concrete floor.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release associated with this unit.

VSI COMMENTS: The unit appeared well managed.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the unit is located indoors and appears to be well maintained.

Air - The potential for release to the atmosphere is low since the lid to the unit is normally kept closed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation.

SWMU No. BW2450/2 Building 2450 Waste Oil Disposal Sink

INFORMATION SUMMARY: Site File B-2450; Photo BW-10; Document EAFB-D-97

LOCATION: The unit is located in the garage bay area of Building 2450, against the northwestern wall.

SIZE: The unit is approximately 4 square feet and 4 feet above the ground.

MATERIAL: The unit is made of stainless steel.

CONNECTIONS: Until August 1992, a pipe led from the unit to the Removed Waste Oil UST (SWMU No. BW2450/3).

PURPOSE: Until recently, the unit was used to collect waste oil generated through daily operations in the garage.

START UP: 1973. **DEACTIVATED:** 1992.

WASTES MANAGED: Waste motor oil, lube oil, and grease were disposed down the unit.

RELEASE CONTROLS: The unit is located indoors on a concrete floor. Until August 1992, a pipe led from the sink to the Removed Waste Oil UST. The UST and pipe outside Building 2450 were removed in 1992, and the remaining pipe was plugged at the building wall.

HISTORY OR EVIDENCE OF RELEASE: At the time of the VSI, the floor beneath the unit was observed to be heavily stained, indicating a history of release.

VSI COMMENTS: At the time of the VSI, the floor surrounding the sink was observed to be very dirty and heavily stained. A metal pan on the floor was filled with oil. It is unclear whether the staining was due to a leak in the drain pipe leading from the sink or due to spillage in the area.

When the UST and underground pipeline were removed in August 1992, a subsurface soil sample was obtained at a depth of 3 feet just outside the building wall behind the sink. Diesel was detected at a concentration of 720 mg/kg and oil and grease were detected at a concentration of 3,970 mg/kg.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high since soil contamination was found associated with the pipe from the sink where it exited the western wall of Building 2450. The current potential for release is low since the pipe

has now been plugged at the building wall and the sink is no longer used for waste disposal.

Air - The potential for release to the atmosphere is moderate since volatile organics are exposed to the air.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Sample (Site 299).

SWMU No. BW2450/3 Building 2450 Removed Waste Oil UST

INFORMATION SUMMARY: Site File B-2450; Photo BW-11; Document EAFB-D-97

LOCATION: The unit (Tank No. M022) was located approximately 50 feet west of the northwestern corner of Building 2450.

SIZE: The unit had a capacity of 2,000 gallons.

MATERIAL: The unit was made of steel.

CONNECTIONS: Until August 1992, the unit was connected to the Waste Oil Disposal Sink (SWMU No. BW2450/2) located inside Building 2450. It also had a fill pipe which was sometimes used for disposal of waste automotive liquids.

PURPOSE: Until recently, the unit was used to manage waste oil generated in daily operations inside the Auto Hobby Shop.

START UP: 1974. **DEACTIVATED:** August 1992.

WASTES MANAGED: The unit managed waste oils, and possibly also brake fluid, antifreeze, and other automotive liquids. Reportedly, the UST was regularly pumped out by AFFTC/EM; however, in the past it sometimes overflowed.

RELEASE CONTROLS: The tank was constructed of steel and was underground.

HISTORY OR EVIDENCE OF RELEASE: There are anecdotal reports that the unit overflowed at least once in the past, when it was not drained on a regular schedule. Reportedly once or twice in the past, waste oils collected at the Accumulation Point (SWMU No. BW2450/7) were poured directly down the unit's fill pipe, resulting in significant spillage. According to one source, public motorists also had access to the unit's fill pipe for disposal of waste automotive liquids. The UST passed a leak integrity test in September 1990. The tank and associated piping were removed under the USTI program in August 1992.

At the time of tank removal, soil samples were collected from a depth of 2 feet below the bottom of the southern end of the tank (15 feet below grade) and from depths of 2 feet to 6 feet below the pipeline leading from the Waste Oil Disposal Sink in Building 2450. Diesel fuel was detected at concentrations ranging from 27 mg/kg to 790 mg/kg and oil and grease were detected at concentrations ranging from 519 mg/kg to 3,350 mg/kg in soil samples obtained from within 20 feet of the tank. No contaminants were detected in soil samples collected along the midpoint of the pipeline, but diesel and oil and grease were detected at respective concentrations of 720 mg/kg and 3,970 mg/kg in a subsurface soil sample taken at a depth of 3 feet from adjacent to Building 2450 (at the Waste Oil Disposal Sink end of the pipeline).

VSI COMMENTS: A VSI was conducted prior to tank removal. The soils surrounding the unit appeared heavily stained and saturated. A strong product odor was present in the area of the unit. At the time of the VSI, a 55-gallon drum of waste oil was observed sitting on a wooden pallet approximately 2 feet north of the Removed Waste Oil UST. Reportedly, this drum is ordinarily kept at the Accumulation Point (SWMU No. BW2450/7).

RELEASE POTENTIAL:

Soil/groundwater: The past potential for release to soils and groundwater is high based on anecdotal reports of overflowing and spillage near the fill pipe, visual evidence of heavy staining in the area, and laboratory results of soil samples collected after tank removal. The current potential for release is low since the tank was removed.

Air: The release potential to the atmosphere is low since the contamination is subsurface beneath clean backfill.

Subsurface Gas: The potential for generation of subsurface gas (methane) is low since waste oil is not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (Site 299).

SWMU No. BW2450/4 Building 2450 Oil/Water Separator

INFORMATION SUMMARY: Site File B-2450

LOCATION: The unit is located approximately 50 feet west of Building 2450 and at the center of the facility's wash rack (Building 2451).

SIZE: The unit is approximately 4 feet by 3 feet.

MATERIAL: The unit is a concrete vault with a steel grate cover.

CONNECTIONS: The unit discharges to the sanitary sewer system.

PURPOSE: The purpose of the unit is to separate oil and water drained into the system. Oil is retained and water is discharged to the sanitary sewer system.

START UP: Estimated 1970. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages waste oils and other automotive liquids. Liquid wastes are discharged to the sewer system while retained sludge is reportedly pumped out periodically by a contractor. In the past, the sludge may sometimes have been disposed of in a garbage dumpster.

RELEASE CONTROLS: The unit is constructed of concrete and is below grade.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release associated with this unit.

VSI COMMENTS: The unit appeared to be well managed, with only slight staining observed on the concrete surrounding the unit.

RELEASE POTENTIAL:

Soil/groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the unit is unknown.

Air - The release potential to the atmosphere is low since the unit is below grade and retains only heavy oils.

Subsurface gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. BW2450/5 Building 2450 Used Battery Storage Area

INFORMATION SUMMARY: Site File B-2450; Photo BW-12

LOCATION: The unit is located in an asphalt parking area east of Building 2450.

SIZE: The unit occupies an area approximately 10 feet by 20 feet.

MATERIAL: The unit consists of several used batteries stacked on top of wooden pallets.

CONNECTIONS: None.

PURPOSE: The unit is used as a storage area for used batteries. A contractor periodically picks up the batteries for recycling.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages recyclable batteries.

RELEASE CONTROLS: The unit is on asphalt.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release at this unit.

VSI COMMENTS: The ground surface surrounding the unit appeared somewhat stained.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since batteries are stored on wooden pallets on an asphalt surface.

Air - The potential for release to the atmosphere is low since volatile wastes are not handled.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation.

SWMU No. BW2450/6 Building 2450 Paint Booth Exhaust System

INFORMATION SUMMARY: Site File B-2450

LOCATION: The Paint Booth Exhaust System is located inside Building 2448.

SIZE: The unit consists of an exhaust fan and associated ducting.

MATERIAL: The unit is constructed of metal.

CONNECTIONS: The Paint Booth Exhaust System discharges to the atmosphere via a dry filter.

PURPOSE: The unit contains a dry filter system used to filter paint overspray out of air exhausted from the paint booth.

START UP: 1973. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages waste paint and vapors. Waste filters from the unit are dried and disposed as nonhazardous material. The filters are changed approximately monthly, or as needed.

RELEASE CONTROLS: The unit uses a dry filter system to remove overspray from exhausted air.

HISTORY OR EVIDENCE OF RELEASE: The unit may release volatile organic compounds to the atmosphere when used.

VSI COMMENTS: The unit is permitted by the Kern County Air Pollution Control District.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the unit manages only gaseous and particulate wastes.

Air - The potential for release to the atmosphere is moderate since particulate waste is filtered out, but volatile compounds may be released.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit is above ground and gaseous wastes are vented to the atmosphere.

RECOMMENDATION: No further investigation.

SWMU No. BW2450/7 Building 2450 Accumulation Point

INFORMATION SUMMARY: Site File B-2450; Photo BW-92; Earth Technology (1988)

LOCATION: The 90-day unit is located east of and adjacent to Building 2448.

SIZE: The unit occupies an area approximately 8 feet square.

MATERIAL: The unit consists of several 55-gallon drums, some of which are stored on wooden pallets on an asphalt parking area and others of which were observed sitting directly on the pavement or stacked on top of upright drums.

CONNECTIONS: None.

PURPOSE: The unit is used as a storage area for recoverable waste oils generated in Building 2450. Waste oils were also stored in the Removed Waste Oil UST (SWMU No. BW2450/3) until August 1992.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages recoverable lube oil and motor oil.

RELEASE CONTROLS: For the most part, drums sit on wooden pallets on an asphalt surface without a berm.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release at this unit.

VSI COMMENTS: Some product motor oil, paints and solvents were observed in the same area as the drums of waste oil. At the time of the VSI, one drum of waste oil was observed approximately 2 feet north of the Removed Waste Oil UST.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate, since the unit is on an unbermed asphalt surface.

Air - The potential for release to the atmosphere is low since drums are closed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation. Provide secondary containment.

BUILDING 3500

Building 3500 is the Base Civil Engineering building and is under the jurisdiction of the 650th Air Base Wing/Civil Engineering (ABW/CE), formerly 6500 CE. It is located on Rosamond Boulevard south of Forbes Avenue. The older, southwestern portion of the building (A.I.O. Shop) was constructed in the early 1950s, and houses a variety of shops which are described in greater detail below. Environmental Management (6500 AFFTC/EM), formerly Environmental Management and Compliance (6500 SW/DEV), also occupied offices in the older section of Building 3500 until early 1992. These offices are now occupied by Simplified Acquisitions Base Engineering Requirements (SABER), which plans, designs and negotiates the rent, repair, and renovation of real estate on Edwards Air Force Base. The northeastern wing of the building was completed in 1973. It provides engineering and construction management offices for CE, and a drafting room where construction drawings are filed (SF B-3500/3514).

The following shops are located in the older portion of Building 3500, from north to south along the eastern wall: Exterior Electric, Interior Electric, Control Systems, Refrigeration, Heat, SMART Team, Protective Coating (Paint), Carpentry, and Materials Control Holding Area. From north to south along the western wall are Plumbing, Pavement and Grounds Maintenance, Small Engine Repair, Power Production, Sheet Metal, Materials Control, and Heavy Equipment (SF B-3500/3514).

The Exterior Electric Shop is charged with operation, maintenance, and repair of the electrical distribution system on base. The only hazardous wastes generated by this shop are PCB oils associated with older transformer units. The base began a transformer retrofill program in 1985, under which transformers throughout the base have been tested for PCB oils. Table 3-2 lists the location and current status of PCB transformer units on base. All transformer units containing PCB oils are scheduled either for replacement or retrofilling by 1995. Replacement of the larger units will be handled by outside contractors, who are responsible for disposing of the replaced units off base. The Exterior Electric shop is replacing the smaller units as they are received from suppliers (all replacement units are on order). When the units are removed, their PCB oils are tested to ascertain whether the transformers are required to be disposed as hazardous waste. Those units that are designated hazardous waste are transported to Building 4917 (SWMU No. M4917/1) at the base HWSF, until disposal off base. Those units that are not designated hazardous waste are sometimes stored in the Building 3500 Common Yard (SWMU No. BW3500/1) until transferred to DRMO. Transformer units that are considered high priority for an electrical upgrade due to their location are being retrofilled (SF B-3500/3514).

The Interior Electric Shop provides electrical services to facilities on base. According to a 1990 audit, ballast from fluorescent lights was observed stacked up on a small pallet inside the shop. The audit recommended that ballast contents be determined and disposed of properly (EAFB-D-100).

TABLE 3-2. PCB TRANSFORMER UNITS AT EDWARDS AFB

(Page 1 of 2)

Facility Location	Manufacturer	Serial Number	KVA	PCB Content (ppm)	Status
1623 eastside	Standard	PFJ-5180	1,000	226,465	Contract
1623 eastside	Standard	PFJ-5181	1,000	387,097	Contract
1623 on the roof	Standard	PFJ-5200	750	204,057	Contract
1630 mechanical room	Westinghouse	56H36047	100	PCB*	Contract
1630 mechanical room	Westinghouse	56H36045	100	PCB	Contract
1630 mechanical room	Westinghouse	56H36046	100	PCB	Contract
1718 outside	GE	E688729	1,000	580	Retrofill
1065 outside	GE	C856893	750	471,098	Contract
1871 outside	GE	C856894	750	278,638	Contract
1874 outside	GE	C856895	750	1,000,000	Contract
1882 outside	GE	C856892	750	278,561	Contract
1931 inside	GE	C861576	750	430,000	Retrofill
2810 on h-frame	Westinghouse	66A7115	50	617	Replace
2810 on h-frame	Westinghouse	66A740	50	637	Replace
3900 Elect. Substation	GE	F-960034	5,000	906	Contract
1403 outside	Westinghouse	6948760	300	101	Retrofill
1809 fenced in area	Westinghouse	6933593	333	120	Contract
1910 outside	Marcus	81045	75	69	Replace
1914 outside	Marcus	81042	100	143	Replace
1914 outside	Marcus	81044	100	166	Replace
2416 on h-frame	GE	B331428	75	186	Contract
2670 on pole	GE	9845661	25	63	Contract
3805 next to tank	GE	C505265	1,000	115	Retrofill
4928 on pole	Central	2385-7	25	289	Replace
4934 on pole	Westinghouse	64D1946	15	69	Replace
4937 on pole	Westinghouse	64E5550	30	260	Replace
4960 on pole	Central	1807-2	5	160	Replace
4960 on pole	Central	1807-3	5	180	Replace
4987 on pole	GE	7089492	50	257	Replace
4987 on pole	GE	7092404	50	260	Replace
6692 on pole	Hill	141115	15	160	Contract
P-4 housing on pole	Hill	141113	15	150	Remove
P-9 housing on pole	Hill	141117	15	70	Remove
4504	GE	7266967	1,000	29,000	Retrofill

*PCB Transformer - contains >500 ppm PCBs

TABLE 3-2. PCB TRANSFORMER UNITS AT EDWARDS AFB
(Page 2 of 2)

Facility Location	Manufacturer	Serial Number	KVA	PCB Content (ppm)	Status
B Area			CAP		DRMO
5204 on pole	GE	9583164	25	410	Replace
5204 on pole	GE	9583169	25	460	Replace
5204 on pole	GE	9583150	25	490	Replace
5208 on pole	Hill	141118	15	550	DRMO
Family Camp Housing	GE	87614327	25	140	Replace
1220	GE	F123733-63P	500	106	Contract
1220	GE	F123735-63P	150	92.9	Contract
8477 inside	GE	E-686667	300	441-940	Replace
8696 inside	ESCO	1079810	112.5	Askarel[b]	Replace
8696 inside	GE	Transfer	OFC#1	2000	Replace
8696 inside	GE	Generator	OFC#1	1200	Replace
8622 Elect. substation	GE	7266968	1000	1275	Replace
8622 Elect. substation	GE	7266969	1000	73140	Retrofill
9625 Elect. substation	GE	E-6914401	5000	1210	Contract
8359 on pole	Hill	141114	15	231	Replace
8359 on pole	Hill	141121	15	239	Replace
8550 outside	Marcus	84215	250	52	Retrofill
8753 outside	GE	C-863063	300	82	Retrofill
8530 outside	GE	C-502145	500	113	Retrofill
8460 outside			37.5	250	Replace
8460 outside			37.5	145	Replace
8460 outside			37.5	157	Replace
Range			37.5	260	Replace
Range			37.5	130	Replace

[b]Askarel indicates 100% PCBs oil

Source: Msgt. Vaughan, Exterior Electric Shop, Civil Engineering.

The Control Systems Shop maintains motor control systems. Around 1987, this shop replaced all the smoke detectors on base and disposed of the old smoke detectors in the Active Sanitary Landfill (SWMU No. BW-LF/2) (SF B-3500/3514).

The Refrigeration Shop maintains refrigerators, air conditioning units, ice machines, and drinking fountains on base. Materials used by the Refrigeration Shop include water treatment chemicals such as algicides and descalers, Freons, cleaning compounds, adhesives, lubricants, silver solder, and batteries. The shop has a Freon Reclamation Unit (SWMU No. BW3500/2) and routinely reclaims Freon for reuse. The shop generates a maximum 50 gallons of waste oil per year. The waste oil is taken to the Heavy Equipment Shop Satellite Accumulation Point (SWMU No. BW3500/3) located on the southern end of Building 3500 (SF B-3500/3514).

The Heat Shop is responsible for maintaining heating units and boiler rooms on base. Heating units around base primarily use either fuel oil (diesel) or propane. To maintain boiler units, personnel use Betz-Entec water treatment chemicals (descalers). Reportedly, water with low concentrations of chemical constituents is disposed of down storm drains (SF B-3500/3514).

The SMART Team is composed of experts from each of the other shops. The SMART Team performs emergency services on a timely basis (SF B-3500/3514).

The Protective Coating Shop is responsible for painting the interiors of all base facilities, for painting the exteriors of some smaller facilities, and for parking lot striping. The latter operation involves sand blasting to remove paint from the pavement. Afterwards, the waste paint and sand blast grit are collected to the extent possible, and a street sweeper cleans up any residue. The Protective Coating Shop primarily uses latex (water-based) paints, mineral spirits, and small quantities of oil-based enamels. Primers are occasionally oil-based with zinc chromates; however the shop has been using less and less of these materials. The shop's Paint Booth Air Filter (SWMU No. BW3500/4) is used primarily to collect dust during surface lacquering. The Paint Shop Accumulation Point (SWMU No. BW3500/5) is adjacent to a Quonset storage hut located at the top of a hill north of Building 3500 (SF B-3500/3514).

The Carpentry Shop is responsible for framing small structures on base, for masonry, for roofing, and for interior woodwork. The roofing crew generates approximately 10 to 20 empty barrels of elastomeric roofing compound per month. The 55-gallon drums are allowed to air dry at the Paint Shop Accumulation Point before being transported to the base Hazardous Waste Storage Facility at Building 4916 (SF B-3500/3514).

The Plumbing Shop maintains water mains, sewer mains and gas mains on base. Materials used by this shop include cutting oils, polyvinyl chloride (PVC) glue, PVC primer, aerosol spray paint cans, charcoal lighter fluid, and grease. Empty cans are disposed in the garbage dumpster (SF B-3500/3514).

The Pavement and Grounds Maintenance Shop is responsible for road repairs and grounds maintenance. No pesticides are used. Dump trucks and lawn mowers are cleaned at the wash

rack northwest of the building, which has an Oil/Water Separator (SWMU No. BW3500/6). Grounds Maintenance personnel run a Small Engine Repair Shop which performs minor maintenance of its vehicles, such as oil changing. The waste oil is taken to the Heavy Equipment Shop Satellite Accumulation Point (SWMU No. BW3500/3). The Small Engine Repair Shop Parts Cleaner (SWMU No. BW3500/7) is a Safety-Kleen unit. Its solvent is cleaned out approximately every 8 weeks. A 5-gallon can of carburetor cleaner is used in the shop; it generates no liquid wastes (SF B-3500/3514).

The Power Production Shop performs maintenance of emergency generators on base, both fixed and mobile. This shop operates approximately 20 USTs and several AGTs around the base. Hazardous wastes generated in this shop include oils, diesel fuels and antifreeze coolants, which are taken directly to the Power Production Accumulation Point (SWMU No. BW3500/8), consisting of two ChemStor sheds outside Building 3498 in the Common Yard. Until 1991, batteries were taken to the Building 3510 Former Battery Storage Area (SWMU No. BW3510/9). Now, batteries are turned in to the Transportation Squadron in Building 3510 and exchanged one-for-one through a local recycling contractor (SF B-3500/3514).

Hazardous materials used in the Sheet Metal Shop include cutting oils and tin-lead solder. Simple Green, a biodegradable solvent, is also used. An air filter is used during welding, primarily to capture dust particles. Any hazardous wastes generated at this shop are taken to the Power Production Accumulation Point for disposal (SF B-3500/3514).

The Materials Control Shop is responsible for ordering materials for the other shops in Civil Engineering, and for maintaining a bench stock of supplies. The bench stock contains over 3,800 line items. Items procured for a customer by a work order or job order are shipped directly to the customer. The Materials Control Shop also maintains a "residue" stock of materials left over from a job order but not normally in the bench stock. Expired materials are sent directly to the DRMO for disposal. The Materials Control Shop has two other storage areas: a paint shed (Building 3506) on the southwestern side of Building 3500 and an outdoor supply storage area just southwest of the fenced yard behind Building 3500. Materials Control is also responsible for a "Self Help Store" in Building 3502, where office managers and other base personnel can come to procure bench stock items (SF B-3500/3514).

The Heavy Equipment Shop is under the jurisdiction of the 6500th Transportation Squadron, which also operates a garage in Building 3510. Graders, bulldozers, Caterpillars, dump trucks, and sweepers are serviced in the Heavy Equipment Shop. Waste oils were previously disposed of in the Removed Waste Oil Tank (SWMU No. BW3500/9). Now waste oils, fuel filters, and hydraulic fluids are stored at the Heavy Equipment Shop Satellite Accumulation Point (SWMU No. BW3500/3). The Heavy Equipment Shop Parts Cleaners (SWMU No. BW3500/10) are serviced by Safety-Kleen (SF B-3500/3514).

Two USTs located outside Building 3500 were removed in April 1991: a 550-gallon diesel fuel tank (Tank No. M058) for the generator at Building 3503, and the Removed Waste Oil Tank (SWMU No. BW3500/9) outside the Heavy Equipment Shop. Soil samples obtained from 1.6

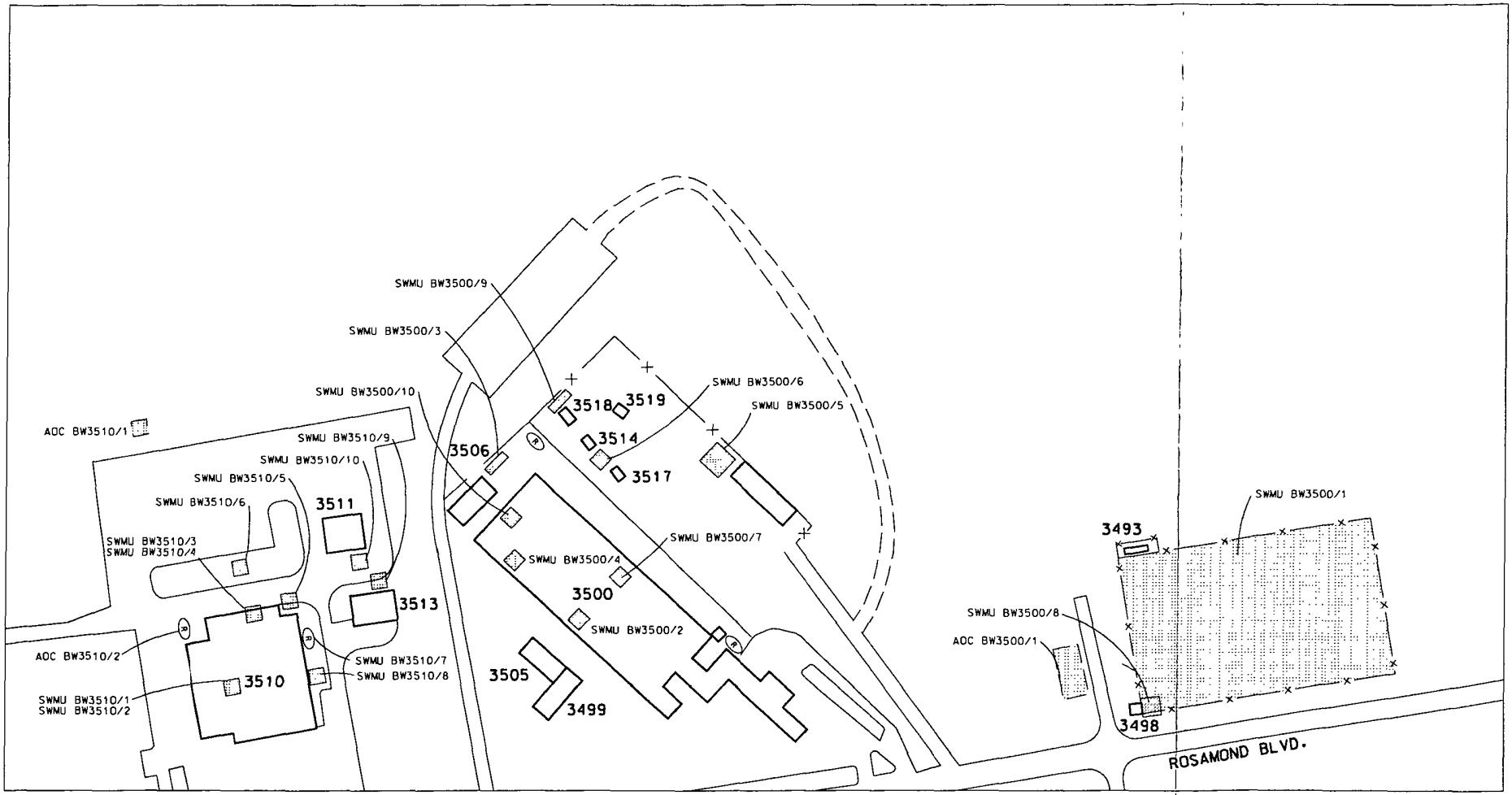
feet and 4.6 feet below the diesel tank (6.6 feet and 9.6 feet below grade) were analyzed for diesel fuel and for BTEX; a soil sample obtained from 2 feet below the Removed Waste Oil Tank (8 feet below grade) was analyzed for total organic lead, oil and grease, and by EPA Method 8010 for volatile halocarbons. None of the analytes were detected in any soil sample (Earth Technology, 1992a).

Northwest of Building 3500 is a fenced yard common to all the shops but managed by the Heavy Equipment Shop. Three small buildings are located approximately 100 feet northwest of Building 3500: Building 3514, a tool and dispatch shed; Building 3517, used to store tools, parts and miscellaneous equipment; and Building 3518, used to store patching material for roadwork. A wash rack, which has an Oil/Water Separator (SWMU No. BW3500/6), is located between Buildings 3514 and 3517. A dirt island northeast of Building 3514 contains product engine oil in drums mounted horizontally on a metal rack; this area is used to service vehicles (SF B-3500/3514).

The Common Yard (SWMU No. BW3500/1), also known as the "The Boneyard," is used as another Civil Engineering storage yard and has been in existence for more than 25 years. The yard is used to store oversized items that cannot be stored inside the shops of the Civil Engineering building. The Common Yard is located approximately 800 feet north of Building 3500 and 50 feet west of Rosamond Boulevard. The yard is fenced and is approximately 500 feet long and 300 feet wide (SF B-3500/3514).

Located adjacent to the Common Yard entrance is an area where paint was deposited directly onto the unpaved soil. The area has been nicknamed the Painted Desert (AOC No. BW3500/1) (SF B-3500/3514).

The SWMUs and AOC associated with Building 3500 are shown in Figure 3-5 and described on the following pages.



The Earth Technology Corporation

Project no.: 91-1006

Base-Wide Miscellaneous ESI/RFA

Buildings 3500 and 3510

9-93

Figure 3-5

EDWARDS/91100621/A0229MPB A03

SWMU No. BW3500/1 Building 3500 Common Yard

INFORMATION SUMMARY: Site File B-3500/3514; Photos BW-28, 29, and 30; Earth Technology (1988)

LOCATION: The unit is associated with Building 3500 and is located approximately 800 feet north of the building.

SIZE: The Common Yard is approximately 500 feet long and 300 feet wide. Adjacent to and west of the Common Yard's western boundary is a propane tank (Building 3493), which is enclosed in a 25-foot by 80-foot chain link fence.

MATERIAL: The unit is enclosed by a chain link fence and is unpaved.

CONNECTIONS: None.

PURPOSE: The Common Yard is used to store oversized items for Civil Engineering shops.

START UP: 1965 or earlier. **DEACTIVATED:** Currently active.

WASTES MANAGED: Paints, transformers, asbestos, and waste oils were observed in the yard.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: A 1988 audit indicated that several drums in the yard were visibly leaking and/or overpressurized. The ground surface appeared to be stained by oils, paints, and other unidentified material (Earth Technology, 1988).

VSI COMMENTS: At the time of the VSI in March 1991, some of the items stored in the Common Yard included 55-gallon drums labelled waste oil, waste petroleum, and lubricating oil. Some minor oily staining was observed. One drum containing paint was marked hazardous waste. Other containers storing asbestos from various buildings were also in the yard. Also observed were some transformer units, one of which was found open and filled with oil. According to personnel, all PCB-containing transformers were hauled away in 1987. However, during the site visit some transformers were found labelled as containing PCBs. Several creosote-soaked telephone poles were also observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high, since heavy staining was reported in 1988. The current potential for release is moderate since only minor oily staining was observed in 1991.

Air - The potential for release to the atmosphere is low, since most drums containing volatile material are kept closed..

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since nothing was buried in the yard.

RECOMMENDATION: Further investigation. Sample (PRL 300).

SWMU No. BW3500/2 Building 3500 Freon Reclamation Unit

INFORMATION SUMMARY: Site File B-3500/3514; Earth Technology (1988)

LOCATION: The unit is located in the Refrigeration Shop's tool room in Building 3500.

SIZE: The unit is approximately 3 feet by 2 feet by 3 feet high.

MATERIAL: The unit is constructed of metal, and is mounted on wheels. It is located inside on a concrete floor.

CONNECTIONS: None.

PURPOSE: The unit is used to reclaim Freon for reuse.

START UP: Circa 1989. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages gaseous and liquid Freon. A 1988 audit reported that shop personnel dispose of approximately 500 pounds of recyclable Freon per year. The Freon Reclamation Unit was procured to minimize generation of waste Freon.

RELEASE CONTROLS: The unit is metal and sits on a concrete floor.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release associated with this unit.

VSI COMMENTS: The unit appeared clean and well maintained. According to the shop manager, the unit may soon be replaced by a larger model.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since the unit is relatively new and is located indoors on a concrete floor.

Air - The potential for release to the atmosphere is low, since the unit is a closed system.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate methane gas are not handled.

RECOMMENDATION: No further investigation.

SWMU No. BW3500/3 **Building 3500 Heavy Equipment Shop Satellite Accumulation Point**

INFORMATION SUMMARY: Site File B-3500/3514

LOCATION: The unit is divided into two areas: a larger area located southwest of Building 3500, northwest of Building 3506; and a second area southwest of Building 3518.

SIZE: The area northwest of Building 3506 measures approximately 20 feet by 50 feet. The area southwest of Building 3518 measures approximately 10 feet square.

MATERIAL: The area northwest of Building 3506 is on a paved surface; the second area is on a dirt surface. The area northwest of Building 3506 consists of waste drums sitting on wooden pallets in plastic drip pans. Product drums of transmission fluid are also stored on wooden pallets in this area. The area southwest of Building 3518 consists of several drums of asphalt slurry and drums of waste lubricants stored on wooden pallets.

CONNECTIONS: None.

PURPOSE: The unit is used as a Satellite Accumulation Point for the Heavy Equipment Shop in Building 3500. Filled drums are taken to the Building 3510 Waste Oil Accumulation Point (SWMU No. BW3510/8) for storage until transport to the base Hazardous Waste Storage Facility at Building 4916.

START UP: Estimated late 1980s. **DEACTIVATED:** Currently active.

WASTES MANAGED: The area northwest of Building 3506 manages drums of waste oil and hydraulic fluids generated by the Heavy Equipment and Small Engine Repair (Grounds Maintenance) Shops, a drum of waste oil contaminated with Freon generated by the Refrigeration Shop, and drums of solid wastes (oil filters, fuel filters). The area southwest of Building 3518 manages drums of waste lubricants and asphalt slurry.

RELEASE CONTROLS: Wastes are stored in closed 55-gallon metal drums on wooden pallets. Drums in the area northwest of Building 3506 are stored inside 85-gallon plastic drip containers.

HISTORY OR EVIDENCE OF RELEASE: The unit has no known history of release.

VSI COMMENTS: No staining was observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater in the area northwest of Building 3506 is low, since the unit provides adequate containment for wastes. The past and current potential for release in the area southwest of Building 3518 is moderate, since drums are stored without secondary containment. However no staining was noted.

Air - The potential for release to the atmosphere is low, since the drums are closed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes are stored above ground in drums.

RECOMMENDATION: No further investigation. Provide secondary containment.

SWMU No. BW3500/4 Building 3500 Paint Booth Air Filter

INFORMATION SUMMARY: Site File B-3500/3514

LOCATION: The unit is located inside the Protective Coating Shop in Building 3500.

SIZE: The paint booth measures approximately 10 feet by 10 feet.

MATERIAL: The paint booth consists of a small room constructed inside the Protective Coating Shop. The Air Filter covers a ventilating exhaust on the back wall.

CONNECTIONS: None.

PURPOSE: The paint booth is not used for spray painting, but rather for lacquering surfaces. The Air Filter is used to collect dust, not to collect overspray particulates.

START UP: Approximately 1986. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit primarily manages dust. Used air filters are disposed as nonhazardous wastes.

RELEASE CONTROLS: The unit prevents dust and other particulates from exhausting to the atmosphere.

HISTORY OR EVIDENCE OF RELEASE: The unit may release volatiles to the atmosphere every time the paint booth is used.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since the unit is located indoors on a concrete floor.

Air - The potential for release to the atmosphere is moderate since particulate waste is filtered out, but volatile compounds may be released.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since the unit does not handle wastes which might generate methane gas.

RECOMMENDATION: No further investigation.

SWMU No. BW3500/5 Building 3500 Paint Shop Accumulation Point

INFORMATION SUMMARY: Site File B-3500/3514

LOCATION: The 90-day unit is located on a hill approximately 250 feet northwest of Building 3500, southwest of a Quonset hut used for storage. On the other side of the unit, tractors and other heavy equipment vehicles are parked.

SIZE: The unit measures approximately 50 feet by 50 feet.

MATERIAL: The unit consists of 55-gallon drums of waste liquids stored on wooden pallets on top of broken asphalt, and open, empty paint cans and 55-gallon drums of elastomeric roofing compound stored on bare ground. Some product paints are also stored in this area.

CONNECTIONS: None.

PURPOSE: The unit is used to store hazardous wastes generated by the Protective Coating Shop and the Carpentry Shop.

START UP: 1984. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages 55-gallon drums of waste mineral spirits, waste latex paints and waste oil-based paints (varnish). Reportedly, approximately four to six drums are filled and transported to the base Hazardous Waste Storage Facility at Building 4916 every 6 months. Open 1- and 5-gallon cans of waste paint are stored outside the unit on bare ground. The empty paint cans are allowed to air dry and taken to the Main Base Active Sanitary Landfill (SWMU No. BW-LF/2). Also, open 55-gallon drums of elastomeric roofing compound are allowed to air dry at the unit before being transported to the base Hazardous Waste Storage Facility. Reportedly, approximately 10 to 20 empty drums of roofing compound are generated per month.

RELEASE CONTROLS: Drums of liquid wastes are stored on wooden pallets on broken asphalt. However, numerous empty paint cans are stored on bare ground.

HISTORY OR EVIDENCE OF RELEASE: At the time of the VSI in March 1991, paint stains were observed on the bare ground surrounding the unit.

VSI COMMENTS: At the time of an initial VSI in March 1991, the unit did not appear to be well managed. Numerous open paint cans were stacked outside the concrete structure, and paint stains were observed on the bare ground. However, the unit appeared to have been considerably cleaned up when revisited in March 1992.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate, since paint stains were observed on bare ground outside the unit.

Air - The potential for release to the atmosphere is high, since empty paint cans and drums of elastomeric roofing compound are routinely allowed to air dry outside the unit.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since the unit does not handle wastes that might generate methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 301).

SWMU No. BW3500/6 Building 3500 Oil/Water Separator

INFORMATION SUMMARY: Site File B-3500/3514; Earth Technology (1988)

LOCATION: The unit is located approximately 100 feet northwest of Building 3500, at the center of the wash rack between Buildings 3514 and 3517.

SIZE: The unit is approximately 3 feet by 4 feet by 4 feet deep.

MATERIAL: The unit is a concrete vault with a steel grate cover.

CONNECTIONS: The unit discharges to the main sewer system.

PURPOSE: The purpose of the unit is to separate oil and water drained into the system. Oil is retained and water is discharged to the main sewer system. The wash rack is used daily to wash heavy equipment and grounds maintenance vehicles.

START UP: Estimated 1965. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages waste oils and other automotive liquids. In the past, soapy wastes from a steam cleaner at Building 3517 were also discharged to the unit. Liquid wastes are discharged to the sewer system while retained sludge is pumped out periodically by a contractor. As recently as 1988, the sludge was being disposed as a nonhazardous waste (Earth Technology, 1988).

RELEASE CONTROLS: The unit is constructed of concrete and is below grade.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release associated with this unit.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soil/groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the unit is unknown.

Air - The release potential to the atmosphere is low since the unit is below grade and retains only heavy oils.

Subsurface gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. BW3500/7 Building 3500 Small Engine Repair Shop Parts Cleaner

INFORMATION SUMMARY: Site File B-3500/3514

LOCATION: The unit is located inside the Grounds Shop in Building 3500.

SIZE: The unit consists of a Safety-Kleen unit, with a capacity of 15 gallons.

MATERIAL: The sink is metal and sits on a concrete floor.

CONNECTIONS: None.

PURPOSE: The unit is used to clean parts from Grounds Maintenance vehicles.

START UP: Estimated 1986. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages small quantities of solvent (Safety-Kleen 105). Safety-Kleen replaces spent solvent approximately every 8 weeks.

RELEASE CONTROLS: The parts sink is a closed system. The solvent is recirculated between a metal drum and the covered sink.

HISTORY OR EVIDENCE OF RELEASE: The unit has no known history of release.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since the unit is located indoors on a concrete floor.

Air - The potential for release to the atmosphere is low, since the unit is closed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since the waste is stored above a concrete floor.

RECOMMENDATION: No further investigation.

SWMU No. BW3500/8 Building 3500 Power Production Accumulation Point

INFORMATION SUMMARY: Site File B-3500/3514

LOCATION: The 90-day unit is located in the southeastern corner of the Common Yard (SWMU No. BW3500/1), outside Building 3498.

SIZE: The unit consists of two ChemStor sheds, each of which is approximately 8 feet high by 12 feet wide by 5 feet deep.

MATERIAL: The sheds are constructed of metal. Drums are stored inside on a metal grate with a subfloor underneath to catch spills.

CONNECTIONS: None.

PURPOSE: The units are used to store hazardous wastes generated by the Power Production Shop.

START UP: Unknown, estimated 1989. **DEACTIVATED:** Currently active.

WASTES MANAGED: Waste oils, antifreeze, and solid wastes (oil filters, saturated rags) are stored at the unit.

RELEASE CONTROLS: Closed 55-gallon drums are stored on a metal grate with a subfloor underneath to catch spills.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release.

VSI COMMENTS: Reportedly, unauthorized users sometimes leave drums with unidentified wastes in the area.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since release controls are used.

Air - The potential for release to the atmosphere is low, since drums are closed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since nothing is buried.

RECOMMENDATION: No further investigation.

SWMU No. BW3500/9 Building 3500 Removed Waste Oil Tank

INFORMATION SUMMARY: Site File B-3500/3514; Earth Technology (1992a)

LOCATION: The unit (Tank No. M057) was located under soil cover west of the southern end of Building 3500.

SIZE: The capacity of the unit was 1,000 gallons.

MATERIAL: The unit was made of single-walled steel.

CONNECTIONS: None.

PURPOSE: The unit was used to collect waste oils from vehicles serviced by the Heavy Equipment Shop. It was removed in April 1991. Waste oils are now stored at the Heavy Equipment Shop Satellite Accumulation Point (SWMU No. BW3500/3).

START UP: 1968. **DEACTIVATED:** Spring 1991.

WASTES MANAGED: The unit managed waste oils. The contents were reportedly pumped out by AFFTC/EM and taken to the base Waste POL Facility. The tank passed a leak test in November 1990. No holes were observed at the time of tank removal, and no contaminants (oil and grease, organic lead, and EPA Method 8010 compounds) were detected in a soil sample obtained 2 feet below the tank (8 feet below grade) following removal.

RELEASE CONTROLS: The unit was underground and constructed of steel.

HISTORY OR EVIDENCE OF RELEASE: The area surrounding the fill pipe was stained, indicating a history of spillage. However, no soil contamination was detected below the tank and the tank passed a leak test.

VSI COMMENTS: Before the unit was removed, the ground around the port was observed to be moderately stained. No staining was noted under the tank excavation.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is low, since although spillage apparently had occurred around the tank's fill port, a soil sample analyzed from below the unit showed no contamination. The current potential is low since the unit was removed.

Air - The potential for release to the atmosphere is low since the unit was removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: No further investigation.

SWMU No. BW3500/10 Building 3500 Heavy Equipment Shop Parts Cleaners

INFORMATION SUMMARY: Site File B-3500/3514

LOCATION: The two units are located inside the Heavy Equipment Shop in Building 3500.

SIZE: Each Safety-Kleen unit has a capacity of 15 gallons.

MATERIAL: Each unit is metal and sits on a concrete floor.

CONNECTIONS: None.

PURPOSE: The units are used to clean parts from heavy equipment.

START UP: Estimated 1986. **DEACTIVATED:** Currently active.

WASTES MANAGED: Each unit manages small quantities of solvent used in maintenance of the Transportation Squadron's heavy equipment. Safety-Kleen replaces spent solvents monthly.

RELEASE CONTROLS: Each unit is a closed system. The solvent is recirculated between a metal drum and the covered sink.

HISTORY OR EVIDENCE OF RELEASE: The units have no known history of release.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since the units are located indoors on a concrete floor.

Air - The potential for release to the atmosphere is low, since the units are closed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since the waste is stored on a concrete floor.

RECOMMENDATION: No further investigation.

AOC No. BW3500/1 Building 3500 Painted Desert

INFORMATION SUMMARY: Site File B-3500/3514

LOCATION: The unit is located just south of the Common Yard (SWMU No. BW3500/1), approximately 650 feet north of Building 3500.

SIZE: The unit is approximately 100 feet by 50 feet.

PROBABLE WASTES: In the past, waste paints were emptied onto the ground here and empty paint containers left behind. It is suspected that paint contractors who used this area to clean their equipment may have left the materials.

CONCERN: The unpaved surface shows heavy paint staining indicating a history of release.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high based on the visual evidence of heavily stained soils. The current potential for release to soils and groundwater is low, since the practice of dumping paints here no longer occurs.

Air - The potential for release to the atmosphere is moderate, since paint is composed of some volatile materials.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since paint degradation is not likely to produce methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 300).

BUILDING 3510

Building 3510 is under the jurisdiction of the 6500th Transportation Squadron. The 6500th Transportation Squadron provides motor pool services for the base, and conducts maintenance on its vehicles at this location. It also services forklifts and AGE generator carts. The facility was constructed in 1955 and has always been used for motor vehicle maintenance. There are separate facilities for servicing heavy equipment at the Civil Engineering building (Building 3500), and at the Phillips Laboratory (Building 8411) (SF B-3510).

Numerous operations which generate potentially hazardous wastes are conducted at Building 3510 and its surrounding support facilities. There are hydraulic lifts for working on vehicles, which reportedly have leaked hydraulic oil into the Hydraulic Lift Pits (SWMU No. BS3510/1) in which they are constructed. Solvent Tanks (SWMU No. BW3510/2) serviced by Safety-Kleen are used for cleaning and degreasing parts, and are located throughout the facility. Two paint booths with Paint Booth Exhaust Systems (SWMU No. BW3510/3) are used for spray painting components. The Paint Booth Satellite Accumulation Point (SWMU No. BW3510/4) is used for storing waste paint and related wastes. An accumulation point for other wastes such as brake fluids and asbestos brake pads is planned (SF B-3510).

Two oil/water separators, the Steam Cleaning Oil/Water Separator (SWMU No. BW3510/5) and the Wash Rack Oil/Water Separator (SWMU No. BW3510/6), are associated with outdoor areas used for cleaning vehicles and components. As a result of a one-time incident, sludge from the Wash Rack Oil/Water Separator was disposed at the Sludge Disposal Area (AOC No. BW3510/1).

Although some standard vehicle maintenance, including oil changes and tuneups, is done by commercial garages in Lancaster, wastes such as used batteries, brake fluid, transmission fluid and engine oil are generated at Building 3510. Prior to 1991, oils changed out of vehicles were stored in the Removed Waste Oil Tank (SWMU No. BW3510/7); waste oils are now stored at the Waste Oil Accumulation Point (SWMU No. BW3510/8), which also manages used batteries from vehicles. Reportedly, from the 1950s through the 1970s, waste battery acids were drained outside on the wash rack. More recently, until approximately 1987, waste battery acid was neutralized in a tank with baking soda and water, then poured down floor drains to the base sewer. Old batteries have on occasion been stored at the Former Battery Storage Area (SWMU No. BW3510/9) before being taken to a contractor in Lancaster. In the past, antifreeze and solvents were reportedly poured down drains in the building (SF B-3510; Earth Technology, 1992a).

Adjacent to Building 3510 are several small buildings used by the Transportation Squadron. Building 3511, located near the northwestern corner, is used for maintenance of aircraft refueling vehicles. It has an adjacent Refueling Vehicle Sump (SWMU No. BW3510/10). Building 3513, in the same area, is a former tire shop, currently used for storage.

Between the western wall of Building 3510 and the wash rack is the site of a Former Gasoline Station (AOC No. BW3510/2). Two pumps and associated USTs were used between 1956 and 1970. The USTs were removed under the USTI program in August 1992 (SF B-3510; EAFB-D-97).

The SWMUs and AOCs associated with Building 3510 are shown in Figure 3-5 and are described on the following pages.

SWMU No. BW3510/1 Building 3510 Hydraulic Lift Pits

INFORMATION SUMMARY: Site File B-3510

LOCATION: The Hydraulic Lift Pits are below grade, and built into the floor of Building 3510.

SIZE: The 19 pits are each approximately 2 feet wide, 10 feet long, and 10 feet deep.

MATERIAL: The units are constructed of concrete and are built into the floor of the building.

CONNECTIONS: None.

PURPOSE: The units contain the telescoping hydraulic lifts used to raise vehicles when they are serviced. The lifts have reportedly leaked hydraulic oil for years, and the bottoms of the units contain water mixed with hydraulic fluid.

START UP: Early 1950s. **DEACTIVATED:** Currently active.

WASTES MANAGED: The Hydraulic Lift Pits manage hydraulic fluid which has leaked from the lifts. The oil is reportedly mixed with water.

RELEASE CONTROLS: The units are below grade, covered, and located indoors. The integrity of the pits is unknown.

HISTORY OR EVIDENCE OF RELEASE: The units have reportedly been collecting the leaking hydraulic fluid for years.

VSI COMMENTS: The bottoms of the units could not be seen.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the units is unknown.

Air - The potential for release to the atmosphere is low since the units are covered and the waste managed is not very volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. BW3510/2 Building 3510 Solvent Tanks

INFORMATION SUMMARY: Site File B-3510

LOCATION: There are seven units located throughout the facility.

SIZE: The Solvent Tanks are Safety-Kleen units, each containing about 5 gallons to 10 gallons of solvent.

MATERIAL: The tanks are made of metal.

CONNECTIONS: The units are self-contained, with a connection between the sink and recirculation sump.

PURPOSE: Each tank consists of a solvent recirculation sump and pump, attached to a sink in which parts are cleaned. The sink drains back to the sump. Two of the units are located at the paint booths and used for cleaning spray guns.

START UP: About 1980. **DEACTIVATED:** Currently active.

WASTES MANAGED: The Solvent Tanks manage solvent contaminated with oils, greases and paints. They are serviced by Safety-Kleen.

RELEASE CONTROLS: The units are located indoors on concrete floors, and the sumps are covered.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the units are indoors and on a concrete floor.

Air - The potential for release to the atmosphere is low since the sumps are covered.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the units have adequate containment.

RECOMMENDATION: No further investigation.

SWMU No. BW3510/3 Building 3510 Paint Booth Exhaust Systems

INFORMATION SUMMARY: Site File B-3510

LOCATION: The two Paint Booth Exhaust Systems are located indoors along the western wall of Building 3510.

SIZE: Each unit consists of an exhaust fan and associated ducting.

MATERIAL: The units are constructed of metal.

CONNECTIONS: The Paint Booth Exhaust Systems discharge to the atmosphere via dry filters.

PURPOSE: The units contain dry filter systems, used to filter paint overspray out of air exhausted from the two paint booths.

START UP: Early 1950s. **DEACTIVATED:** Currently active.

WASTES MANAGED: The units manage waste paint and vapors. Waste filters from the units are dried and disposed as nonhazardous material. The filters are changed approximately monthly, or as needed.

RELEASE CONTROLS: The units use a dry filter system to remove overspray from exhausted air.

HISTORY OR EVIDENCE OF RELEASE: The units may release volatile compounds to the atmosphere when used.

VSI COMMENTS: The units are permitted by the Kern County Air Pollution Control District.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the units manage only gaseous and particulate wastes.

Air - The potential for release to the atmosphere is moderate since, although particulate waste is filtered out, volatile compounds may be released.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the units are above ground and gaseous wastes are vented to the atmosphere.

RECOMMENDATION: No further investigation.

SWMU No. BW3510/4 Building 3510 Paint Booth Satellite Accumulation Point

INFORMATION SUMMARY: Site File B-3510

LOCATION: The Satellite Accumulation Point is located at the paint booths in Building 3510.

SIZE: The area is about 5 feet square.

MATERIAL: The unit consists of containers stored on the concrete floor of the building.

CONNECTIONS: None.

PURPOSE: The unit is used to collect waste paint and thinner from painting operations.

START UP: Before 1986. **DEACTIVATED:** Currently active.

WASTES MANAGED: Waste paint and thinner are managed by the unit. Safety-Kleen is contracted to dispose of the waste, which consists of less than one drum per month.

RELEASE CONTROLS: The unit is indoors on a concrete floor.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release.

VSI COMMENTS: There was no evidence of release.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater from the unit is low since the unit is indoors and on a concrete floor.

Air - The potential for release to the atmosphere is low since wastes are stored in closed containers.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit is above ground and there is adequate containment.

RECOMMENDATION: No further investigation.

SWMU No. BW3510/5 Building 3510 Steam Cleaning Oil/Water Separator

INFORMATION SUMMARY: Site File B-3510

LOCATION: The unit is located at the northwestern corner of Building 3510, and is part of the steam cleaning rack.

SIZE: The unit is about 2 feet wide by 4 feet long, and is of undetermined depth.

MATERIAL: The unit is constructed of concrete, and has a metal cover.

CONNECTIONS: The unit receives discharge from the steam cleaning rack, and reportedly discharges to the base sewer system.

PURPOSE: The purpose of the unit is to remove POL from wastewater generated by the associated steam cleaning rack, which is used to clean vehicle engines and other heavily soiled items.

START UP: Early 1950s. **DEACTIVATED:** Currently active.

WASTES MANAGED: Sludge collected by the unit probably contains POL. The sludge is reportedly disposed of through AFFTC/EM.

RELEASE CONTROLS: The unit is below grade, and is part of the concrete pad at the steam cleaning rack. It has a metal cover, and is in a roofed area.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release to the sewer system. However, based on visual observations, some release seems likely to have occurred.

VSI COMMENTS: The concrete pad surrounding the unit was heavily stained.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the unit is unknown.

Air - The potential for release to the atmosphere is low since the unit is covered and the waste managed is not very volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. BW3510/6 Building 3510 Wash Rack Oil/Water Separator

INFORMATION SUMMARY: Site File B-3510

LOCATION: The Wash Rack Oil/Water Separator is located approximately 75 feet west of Building 3510.

SIZE: The unit is about 30 feet long, 2 feet wide, and of undetermined depth.

MATERIAL: The unit runs along the center of the wash rack. It is constructed of concrete and has a metal grate and cover.

CONNECTIONS: The unit is connected to the base sewer system.

PURPOSE: Vehicles drive onto the wash rack, straddling the Wash Rack Oil/Water Separator. Wastewater drains into the unit, which separates POL from water.

START UP: Early 1950s. **DEACTIVATED:** Currently active.

WASTES MANAGED: Sludge contaminated with POL is managed by the unit. The sludge is normally taken by the AFFTC/EM, but in early 1991 was disposed of at the Sludge Disposal Area (AOC No. BW3510/1). From the 1950s through the 1970s, waste battery acid was reportedly poured into the wash rack drain.

RELEASE CONTROLS: The unit is below grade, and built into the concrete pad of the wash rack.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release.

VSI COMMENTS: There was no evidence of release from the unit.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the unit is unknown.

Air - The potential for release to the atmosphere is low since the waste managed is not very volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. BW3510/7 Building 3510 Removed Waste Oil Tank

INFORMATION SUMMARY: Site File B-3510; Earth Technology (1992a)

LOCATION: The unit (Tank No. M041) was located underground on the northern side of, and adjacent to, Building 3510.

SIZE: The capacity of the Removed Waste Oil Tank was 1,000 gallons.

MATERIAL: The unit was made of steel.

CONNECTIONS: A stand pipe inside Building 3510, into which wastes were poured, was connected to the unit by an underground pipe. A second underground pipe also ran from the unit into Building 3510. The port in the top of the tank was used for pumping the unit out, as well as for pouring waste into the tank.

PURPOSE: The unit was used to collect waste oils from vehicles serviced by the Transportation Squadron. It was removed in April 1991, and replaced by the Waste Oil Accumulation Point (SWMU No. BW3510/8).

START UP: Early 1950s. **DEACTIVATED:** Spring 1991.

WASTES MANAGED: Waste oils were managed by the unit. The contents were reportedly pumped out by AFFTC/EM about six times per year, and taken to the base Waste POL Facility. At the time of tank removal, six samples were obtained: two from underneath the tank and two along each of the underground pipelines running into Building 3510. Organic lead, tetrachloroethene, and 1,2-dichlorobenzene were detected in duplicate samples obtained from 2 feet below the tank (10.2 feet below grade), at maximum concentrations of 21.60 mg/kg, 0.226 mg/kg, and 0.062 mg/kg, respectively. Oil and grease (as analyzed by EPA Method 413.1) were detected in all six samples, in concentrations ranging from 117.9 mg/kg along the east pipeline to 14,400 mg/kg underneath the tank. The samples were not analyzed for BTEX.

RELEASE CONTROLS: The unit was underground and covered by concrete. A Visqueen liner was placed at the bottom of the excavation and on top of the fill after the unit was removed.

HISTORY OR EVIDENCE OF RELEASE: The area surrounding the port was stained, indicating a history of release, and soils excavated from around the unit were stained. No obvious holes were observed in the tank.

VSI COMMENTS: Before the unit was removed, the ground around the port was moderately stained. At the time of tank removal, liquid waste oil was observed on the soil surface and in

soils surrounding the tank to the total depth of excavation (10 feet below grade). Bedrock was encountered about 2 feet below the base of the tank, and was stained black.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater was high since soils around the unit were contaminated. The current potential is low since the unit was removed and a liner placed below the fill.

Air - The potential for release to the atmosphere is low since a liner now covers soils around the unit.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: Further investigation. Sample (Site 224).

SWMU No. BW3510/8 Building 3510 Waste Oil Accumulation Point

INFORMATION SUMMARY: Site File B-3510

LOCATION: The 90-day unit is located on the northern side of Building 3510.

SIZE: The unit consists of a plastic drip pan holding four 55-gallon drums.

MATERIAL: The drip pan is constructed of plastic. Metal drums sit on a wooden floor elevated above the unit.

CONNECTIONS: None.

PURPOSE: The unit is used to collect waste oil from vehicle maintenance operations. The unit replaced the Removed Waste Oil Tank (SWMU No. BW3510/7) which was removed in April 1991.

START UP: Spring 1991. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages waste oil. The drums are pumped out by AFFTC/EM.

RELEASE CONTROLS: The drums are stored in a plastic drip pan on a paved area.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release.

VSI COMMENTS: The unit was activated after the VSI was conducted.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since there is adequate secondary containment.

Air - The potential for release to the atmosphere is low since wastes are contained in covered containers.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since there is adequate containment.

RECOMMENDATION: No further investigation.

SWMU No. BW3510/9 Building 3510 Former Battery Storage Area

INFORMATION SUMMARY: Site File B-3510

LOCATION: The unit was located near the northwestern side of Building 3510, on the western side of Building 3513.

SIZE: The area was about 10 feet square.

MATERIAL: The Battery Storage Area consisted of pallets of batteries stored on a paved surface.

CONNECTIONS: None.

PURPOSE: The unit was reportedly occasionally used to store waste batteries from vehicles.

START UP: Unknown; possibly 1987. **DEACTIVATED:** 1991.

WASTES MANAGED: Waste batteries were occasionally stored on pallets at this location, prior to being taken to a contractor's facility in Lancaster. From the 1950s through the 1970s, waste battery acid was reportedly poured into the wash rack drain. Later, until 1987, waste acid was neutralized, then poured down floor drains in Building 3510. Waste batteries are now exchanged when new ones are bought.

RELEASE CONTROLS: The unit was on a paved surface without berms.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release from the unit.

VSI COMMENTS: There was no evidence of release from the unit.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since the unit was not bermed. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since the wastes managed were not very volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate methane gas were not handled.

RECOMMENDATION: No further investigation.

SWMU No. BW3510/10 Building 3510 Refueling Vehicle Sump

INFORMATION SUMMARY: Site File B-3510

LOCATION: The unit is located near the northwestern corner of Building 3510, on the eastern side of Building 3511, where aircraft refueling vehicles are serviced.

SIZE: The Refueling Vehicle Sump is approximately 6 feet square, and of unknown depth.

MATERIAL: The unit consists of a concrete vault with a metal cover.

CONNECTIONS: The unit is connected to a floor drain in Building 3511 and to the base sewer or storm drain system.

PURPOSE: The unit is used to collect wastewater when the floor of Building 3511 is washed down after servicing aircraft refueling vehicles. Its function could not be determined, but it may be an oil/water separator.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages wastewater, possibly contaminated with jet fuel, oil and grease.

RELEASE CONTROLS: The unit is covered.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release.

VSI COMMENTS: The inside of the unit could not be viewed.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the unit is unknown.

Air - The potential for release to the atmosphere is low since the unit is covered.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate methane gas are not handled.

RECOMMENDATION: Further investigation. Check unit integrity.

AOC No. BW3510/1 Building 3510 Sludge Disposal Area

INFORMATION SUMMARY: Site File B-3510

LOCATION: The Sludge Disposal Area is located west of Building 3510 on the western side of a dirt road that runs along the outside of the security fence surrounding the facility.

SIZE: The sludge was dispersed on the unpaved ground in an area approximately 30 feet long by 5 feet wide.

PROBABLE WASTES: About 40 gallons of sludge from the Wash Rack Oil/Water Separator (SWMU No. BW3510/6) were disposed of at this location. The sludge may contain POL from vehicles. Samples were reportedly collected and analyzed by Base Bio-Environmental Engineering (BEE); however, Earth Technology was unable to obtain analytical data from the BEE office.

CONCERN: The unit was used in early 1991 for the unauthorized disposal of sludge removed from the Wash Rack Oil/Water Separator. This was apparently a one-time occurrence. When observed during the VSI, the sludge appeared dry, grey in color, and non-greasy in texture.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate since the unit manages a relatively small amount of waste.

Air - The potential for release to the atmosphere is low since the waste is not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the waste is on the ground surface.

RECOMMENDATION: No further investigation. Unit received a small, one-time disposal.

AOC No. BW3510/2 **Building 3510 Former Gasoline Station**

INFORMATION SUMMARY: Site File B-3510

LOCATION: The two removed USTs (Tank Nos. M024 and M123) associated with the Former Gasoline Station were located adjacent to the western wall of Building 3510, east of the wash rack. The two removed pumps were located approximately 16 feet west of Building 3510.

SIZE: Each tank had a capacity of 1,500 gallons.

PROBABLE WASTES: Reportedly, the tanks stored Mogas and were active between 1955 and 1970. The two associated gas pumps were removed when the gas station was abandoned in 1970.

CONCERN: The tanks were installed in 1955 and actively used until 1970 when the gas pumps were removed and the tanks abandoned in place. The tanks were removed in August 1992 under the USTI program. At the time of tank removal, soil samples were obtained from the northern end and the midpoint of the easternmost tank, at 2 feet below the tank. Soil samples were obtained from the midpoint of the westernmost tank at 1 foot and 2 feet below the tank. BTEX were not detected in any of the samples, but gasoline was detected at 430 mg/kg at the 1-foot sample below the western tank. Soil samples were not analyzed for organic lead.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate based on results of soil samples obtained at the time of tank removal. The current potential for release is low, since the tanks were removed in August 1992.

Air - The potential for release to the atmosphere is low since contamination is subsurface beneath clean backfill.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since gasoline is not expected to degrade to methane gas to a significant extent.

RECOMMENDATION: Further investigation. Sample (Site 224).

BUILDING 3514

Building 3514 is the location of a Former Gasoline Station (AOC No. BW3514/1) approximately 450 feet northeast of Building 2340. Two 10,000-gallon USTs were removed from the Former Gasoline Station in August 1992. Building 3512, approximately 200 feet northwest of Building 3514, is the former Diagnostics Center, now used for storage of mobility units. Building 3530, located approximately 50 feet west of Building 3514, is the site of an old wash rack formerly used for public and government vehicles. A temporary vehicle fueling station, located east of Building 3530, across the road 20 feet north of Building 3514, consists of three 6,000-gallon AGTs which were installed for use while the gas station at Building 2340 was renovated in 1991. Apparently the fueling station is still being used by the Transportation Squadron (SF B-3500/3514).

The AOC at Building 3514 is shown in Figure 3-3 and described on the following page.

AOC No. BW3514/1 Building 3514 Former Gasoline Station

INFORMATION SUMMARY: Site File B-3500/3514; Documents EAFB-D-79 and EAFB-D-97

LOCATION: Former Gasoline Station 1 (Building 3514), which consisted of at least two USTs (Tank Nos. M067 and M068) and a dispensing island, was located approximately 200 feet southeast of Building 3512.

SIZE: Two USTs that were removed in August 1992 from the Former Gasoline Station each had a capacity of 10,000 gallons. They were each 25 feet long by 8 feet in diameter.

PROBABLE WASTES: A 1975 as-built drawing shows two existing steel USTs (which were reportedly installed as early as 1958) containing Mogas. These two USTs were removed under the USTI program in August 1992. The 1975 drawing also shows two new Fiberglas USTs, containing unleaded gasoline, installed 25 feet north of the existing tanks. Based on a 1992 geophysical survey and visual inspection, however, it is likely that the two Fiberglas USTs were never installed. An unpublished source (EAFB-D-79) indicated that a steel UST (Tank No. M025) containing unleaded gasoline was installed around 1963. A vent pipe for this UST was identified during the VSI, and a geophysical survey detected subsurface metal at the reported location of the tank; however, the location was excavated in August 1992 and no tank was found.

CONCERN: At the time of tank removal, soil samples were obtained at depths of 2 feet and 6 feet below the tanks from the eastern and western ends of each 10,000-gallon tank. Gasoline was detected in all samples, at concentrations ranging from 29 mg/kg to 1,900 mg/kg. Toluene was detected in all but one sample, at concentrations ranging from 48 mg/kg to 280 mg/kg. Xylenes were detected in all samples, at concentrations ranging from 13 mg/kg to 750 mg/kg. Ethylbenzene was detected in four samples out of eight, at a maximum concentration of 96 mg/kg. Benzene was not detected in any sample; the detection limits ranged from 2.8 mg/kg to 52 mg/kg. The soil samples were not analyzed for organic lead.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high based on the results of soil samples obtained at the time of UST removal. The current potential is low since the USTs are no longer in place.

Air - The potential for release to the atmosphere is low since the contamination is covered with clean backfill.

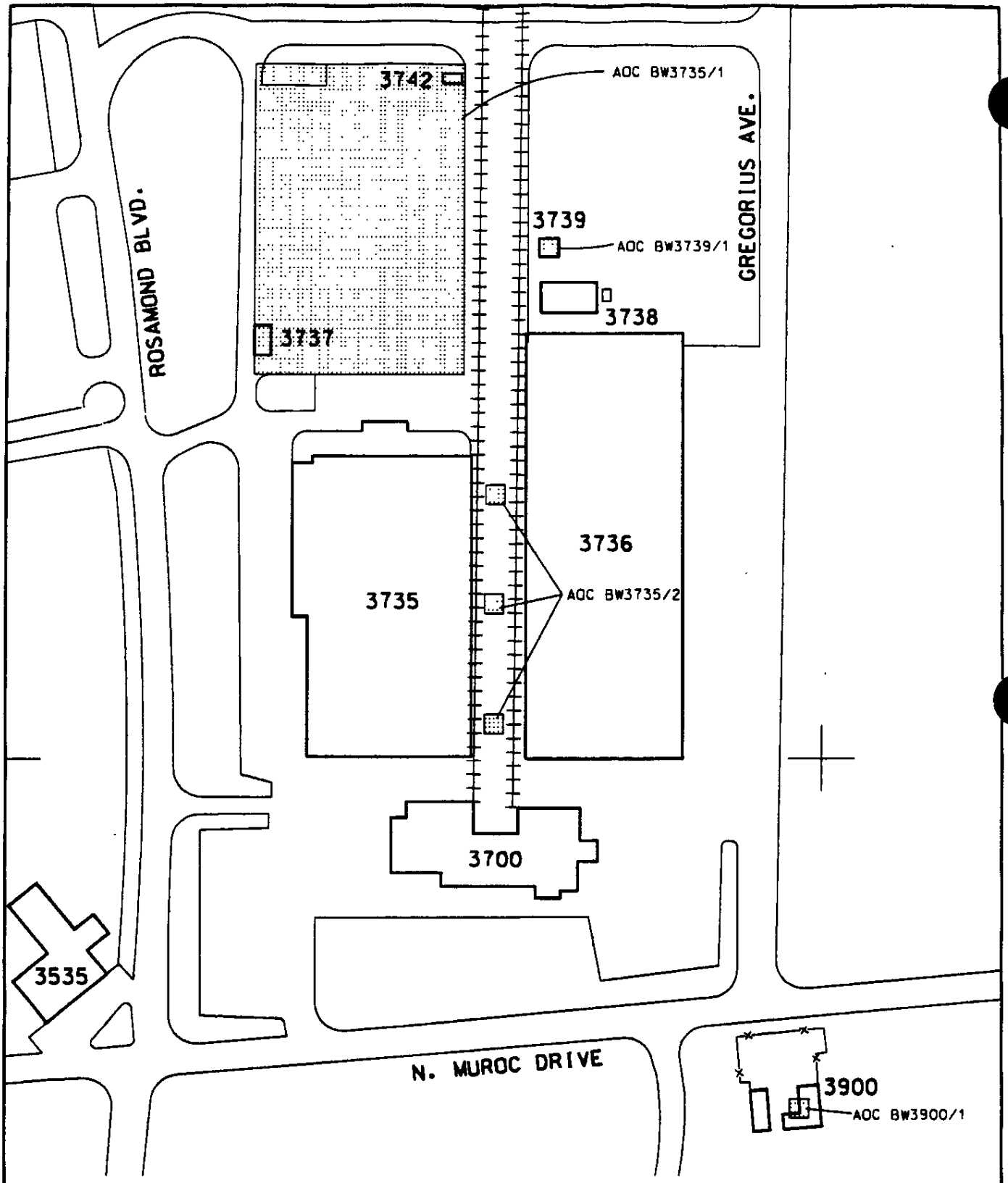
Subsurface Gas - The potential for generation of subsurface gas (methane) is low since gasoline is not expected to degrade to methane gas to a significant extent.

RECOMMENDATION: Further investigation. Sample (Site 225).

BUILDING 3535

Building 3535, located on the northwestern corner of Rosamond Boulevard and North Muroc Drive (Figure 3-6), currently houses the 6500th ABW Commander. Previously the building was a fire station. It is not clear when the building was remodeled for its current use. At present, no hazardous materials are stored at this location. It is likely that when the building was a fire station, various solvents were used to clean the fire fighting trucks. There are storm drains next to the building in an area which may have served as a wash rack. Storm drainage is routed from the southwest to the northeast around Building 3535, and into a 24-inch-diameter pipe that joins a 27-inch pipe which ultimately discharges at Rogers Dry Lake Bed Discharge Point 1 (SWMU No. M-RDLB/1, see the MBFL ITIR) (SF B-3530/3535).

No SWMUs or AOCs were identified at this facility.



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BUILDING 3735

Building 3735, under the jurisdiction of the 6505th Supply Squadron, is the warehouse for all incoming supplies used on base. It has served this function since its construction in 1954. Materials ranging from office supplies to bulk chemicals used in aircraft maintenance are stored in Building 3735, which is located approximately 400 feet northeast of the intersection of Rosamond Boulevard and North Muroc Drive (SF B-3735/3738/3739).

The floor of the warehouse is concrete. There are no floor drains. Several loading docks are located throughout the facility and loading vehicles are in continuous use. Building 3735 is connected via a tramway to Building 3736, a warehouse for contractor supplies (SF B-3735/3738/3739).

Daily operations in Building 3735 involve the receipt, inventory and distribution of bulk products to other base facilities. The entire organization is broken up into five sections: Staging and Receiving; Inspection; Storage and Issue; Bench Stock; and Pick-up and Delivery (SF B-3735/3738/3739).

The Staging and Receiving area is where supplies are unloaded from supply trucks via loading vehicles. Bulk materials are stored on wooden pallets until ready for inspection. Chemicals are always accompanied by Material Safety Data Sheets (MSDS) and arrive in the warehouse sealed and packed. Accidents occasionally occur during the unloading process. Up until 1991, minor spills were contained by Speedy Dry, an absorbent, which was then disposed of in a dumpster. Now the Fire Department is called in to take care of any spills (SF B-3735/3738/3739).

The Inspection area is where incoming supplies are inventoried. Personnel in this section are responsible for checking the quality and quantity of incoming materials, which are still in their original packaging (SF B-3735/3738/3739).

The Storage and Issue (Customer Stock) section is where supplies are segregated for use by organization. Paints and oils are stored in flammable lockers. Other bulk items, including electrolyte fluids, battery fluids, cleaning solvents and greases, are stored in drums on wooden pallets (SF B-3735/3738/3739).

The Bench Stock area handles materials used and ordered on a regular basis. For safety reasons, this area is located near a loading dock. Materials in drums are stored on wooden pallets. These include items such as sealants, hydraulic fluids, oils, greases, aerosols and primer/sealer compounds (SF B-3735/3738/3739).

The Pick-up and Delivery section is tasked with the packaging of materials to either the client or to storage in the Supply Yard (AOC No. BW3735/1) or Warehouse 08 (see the MBFL ITIR).

The Supply Yard is located about 100 feet north of Building 3735. The Supply Squadron shares this yard with the Transportation Squadron. The area, which encompasses Warehouse 06A, is used to store materials too large to accommodate in the main supply building. During the VSI, several drums of product industrial cleaners and oils were observed. Engine and aircraft parts are also stored in the yard in bulk quantities. There are two lockers containing tools and personal protective equipment, in addition to a chemical locker containing operating stock used on a daily basis. Minor spills have occurred in the yard area. Salvage drums and absorbents are used to contain such spills (SF B-3735/3738/3739).

The yard also encompasses Building 3742, a new facility constructed in the 1980s to store materials that could potentially become hazardous if exposed to extreme, constant heat. Around 1989, a drum containing engine oil (15W40) leaked onto the pavement causing it to corrode and deteriorate rapidly. This incident prompted the Supply Squadron to establish a permanent facility to house such materials. Building 3742 is a temperature-controlled facility equipped with large fans. Several 55-gallon drums of cleaning lubricants, hydraulic fluids, oils, antifreeze and polymers are stored here (SF B-3735/3738/3739).

The Supply Yard appeared to be well managed at the time of the VSI. Personnel in the Supply Squadron have established emergency response teams to handle incidents that may prove potentially hazardous. With the exception of the motor oil spill area, asphalt staining in the Supply Yard appeared to be the result of weathering (SF B-3735/3738/3739).

The asphalted area between Buildings 3735 and 3736 is occasionally used to wash vehicles. There are three Exterior Drains (AOC No. BW3735/2) located in the center of the parking lot, which discharge rinsewater into the sewer system. A railroad track, which up to late 1990 was used to unload supplies at Building 3736, runs between the two buildings (SF B-3735/3738/3739).

The AOCs associated with Building 3735 are presented in Figure 3-6 and described on the following pages.

AOC No. BW3735/1 Building 3735 Supply Yard

INFORMATION SUMMARY: Site File B-3735/3738/3739

LOCATION: The Supply Yard is located approximately 100 feet north of Building 3735.

SIZE: The unit measures approximately 300 feet by 450 feet.

PROBABLE WASTES: The unit manages product industrial cleaners, engine oils, lubricants, and hydraulic fluids.

CONCERN: There is a potential for accidents to happen during the transfer and transport of materials. Minor spills have occurred throughout the paved yard. Staining can be observed in isolated areas on the asphalt.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate since although the unit is paved, there is no berm.

Air - The potential for release to the atmosphere is low since materials are stored in closed containers.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Sample (PRL 226).

AOC No. BW3735/2 Building 3735 Exterior Drains

INFORMATION SUMMARY: Site File B-3735/3738/3739

LOCATION: The three Exterior Drains are located between Buildings 3735 and 3736.

SIZE: Each unit measures approximately 4 square feet.

PROBABLE WASTES: The units manage water, possibly containing oils and greases from washing vehicles.

CONCERN: The parking area between Buildings 3735 and 3736 is often used to wash loading vehicles and automobiles. Rinsewater drains to three Exterior Drains which connect to the main sewer system.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown, since the integrity of the sewer pipeline to which the Exterior Drains discharge is unknown.

Air - The potential for release to the atmosphere is low since rinsewater drains below the ground surface.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation. A recommendation to check sewer line integrity is made elsewhere (see SWMU No. N4331/4).

BUILDING 3738

Building 3738 is located about 30 feet north of Building 3736 adjacent to the railroad siding that runs north from Building 3700. The facility houses the base custodial contractor, including supplies and equipment. Reportedly, it has always been used for this purpose. Management Technical Services has been the custodial contractor since January 1986. No hazardous wastes are generated during custodial operations; all other wastes are drummed and removed from the base by the contractor. Materials stored in the building include waxes, detergents, and disinfectants (SF B-3735/3738/3739).

There are no SWMUs or AOCs associated with Building 3738.

BUILDING 3739

Building 3739, located approximately 100 feet north of Building 3736, is a former paper shredding and incineration facility which operated under the jurisdiction of the 6500th Civil Engineering Squadron until April 1990. The facility was then taken over by the 6505th Supply Squadron, but is currently unoccupied (SF B-3735/3738/3739).

The building's generator and aboveground diesel fuel tank were removed in 1990. The building sits on a Concrete Pad (AOC No. BW3739/1) that is heavily stained, perhaps from spillage around the removed diesel fuel tank (SF B-3735/3738/3739).

The AOC at Building 3739 is shown in Figure 3-6 and described on the following page.

AOC No. BW3739/1 **Building 3739 Concrete Pad**

INFORMATION SUMMARY: Site File B-3735/3738/3739

LOCATION: The Concrete Pad for Building 3739 is located approximately 100 feet north of Building 3736.

SIZE: The unit measures approximately 900 square feet.

PROBABLE WASTES: It is suspected that diesel fuel probably leaked or was spilled in the vicinity of a removed AGT.

CONCERN: The Concrete Pad for Building 3739 is heavily stained, possibly with diesel fuel from a removed AGT. No staining was observed on the surrounding unpaved ground.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate based on the visual evidence of heavy staining on the Concrete Pad. The current potential is low since the diesel fuel tank was removed and the building is currently unoccupied.

Air - The potential for release to the atmosphere is low since the building is no longer occupied.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further Investigation. Sample (PRL 226).

BUILDING 3900

The former Building 3900 was an electrical substation (Substation 2) located on the southeastern corner of the intersection of North Muroc Drive and Seller Avenue. The former substation (AOC No. BW3900/1) consisted of electrical transformers on a concrete foundation surrounded by a 7-foot high chain link fence. The substation was built in 1960. The transformer units and concrete pad were removed in 1992. In 1989, while the transformers at the substation were being retrofilled, a hose broke and released approximately 9 gallons of oil containing polychlorinated biphenyls (PCBs) to the concrete pad and surrounding soils. The contaminated soils were excavated. The Bio-Environmental Engineer (BEE) sampled the soils surrounding the area, and no contamination was found. The area was backfilled with clean soils (SF B-3900).

The AOC at Building 3900 is shown in Figure 3-6 and described on the following page.

AOC No. BW3900/1 Building 3900 Former Substation

INFORMATION SUMMARY: Site File B-3900; Photo BW-57

LOCATION: The Former Substation is located on the southeastern corner of the intersection of North Muroc Drive and Seller Avenue.

SIZE: The approximate size of a spill that reportedly occurred in 1989 was 3 feet square.

PROBABLE WASTES: The waste released at this area was oil contaminated with PCBs.

CONCERN: In 1989, while the transformers at the substation were being retrofilled, a hose broke and released approximately 9 gallons of oil to the concrete pad and surrounding soils at the unit. At that time, the substation was thought to have only non-PCB transformers. The oil-contaminated soil was excavated and the area surrounding the spill was sampled and analyzed by the BEE. PCBs were not detected in any sample above detection limit of 9 ppm. The oil in the transformer units was later sampled and found to contain PCBs at >1,000 ppm concentration. The entire substation, including the concrete pad, was removed in 1992.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since it is unknown if PCB-contaminated oils may have leaked through the concrete pad to underlying soils. The current potential for release is low since the entire substation has been removed.

Air - The potential for release to the atmosphere is low since PCB-oils are not highly volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the wastes are not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 227).

BUILDING 4300

Building 4300 is the location of the wellhead and pump house for Well No. 1 (USGS No. 10N/9W-7A1), a 10-inch-diameter, 200-foot-deep water supply well that was installed in 1942 at North Base. It was part of a water supply system that included two wells, located west and south of Building 4305, a 200,000-gallon reservoir (Building 4316), a 10,000-gallon water tower, and three pump houses (see Buildings 4311 and 4317). It is estimated that Well No. 1, renamed NB-1, was used at least until the early 1960s, based on the fact that groundwater samples from the well were collected for chemical analyses of water quality at least through 1958. The well is no longer in use (SF B-4300 to 4307; Earth Technology, 1991b; Dutcher, L.C., et al., 1962).

There are no SWMUs or AOCs associated with this building.

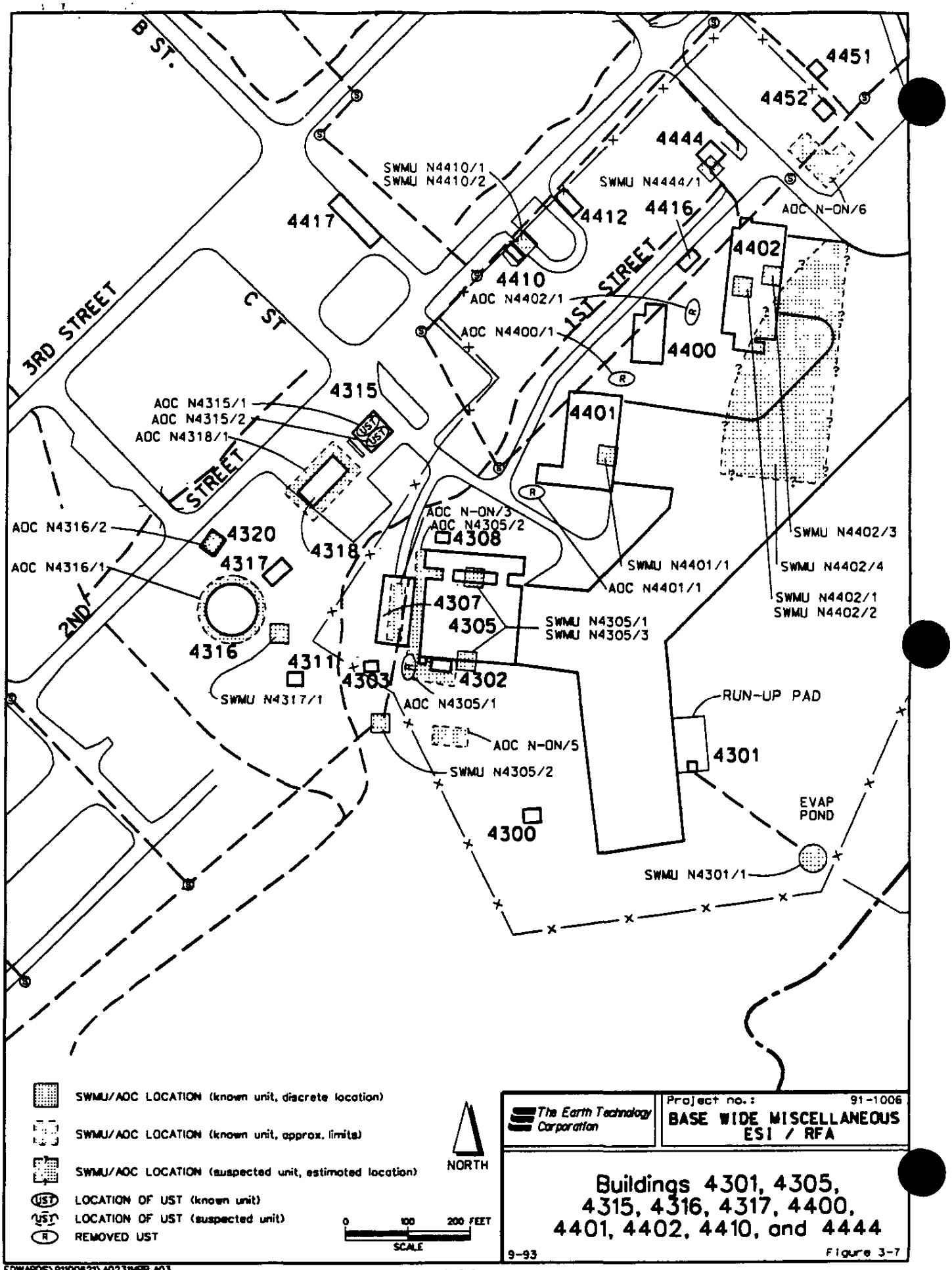
BUILDING 4301

Building 4301 and the run-up pad on which it sits were constructed in 1967, east of the concrete apron that extends east and south from Building 4305 at North Base. Building 4301 is used to store equipment for tests conducted on the run-up pad (SF B-4300 to 4307).

According to as-built drawings, modifications were made to the concrete apron adjacent to the run-up pad in 1970 to facilitate airplane washing. A drainage trench was sawcut across the southern portion of the concrete apron, discharging to a drainage ditch southeast of the run-up pad that in turn drains to an Evaporation Pond (SWMU No. N4301/1) (SF B-4300 to 4307).

The Evaporation Pond is shown in Figure 3-7 and described on the following page.

Environmental Management Library
Building 2650A
Edwards AFB Ca. 93524



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SWMU No. N4301/1 Building 4301 Evaporation Pond

INFORMATION SUMMARY: Site File B-4300 to 4307

LOCATION: The unit is located approximately 200 feet southeast of Building 4301.

SIZE: Based on a 1970 as-built drawing, the Evaporation Pond is approximately 30 feet in diameter, with sloping sides that increase to a maximum 5-foot depth.

MATERIAL: The unit is constructed of compacted soil surrounded by a 2-foot-high soil berm. There is a 4-foot-square concrete splash pad constructed of 4-inch-thick concrete on the inlet (western) side of the pond.

CONNECTIONS: A drainage trench in the concrete apron discharges southeast of Building 4301 into an unlined drainage ditch approximately 6 feet wide, 200 feet long, and 2 feet deep that in turn discharges below grade to a vitrified clay pipe and into the Evaporation Pond. The Evaporation Pond has no outlet.

PURPOSE: The Evaporation Pond is used to collect rinsewater associated with airplane washing at the southern end of the concrete pad.

START UP: 1970. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit was constructed to collect rinsewater associated with airplane washing. It is possible that solvents and POL may have been released to the unit in the past.

RELEASE CONTROLS: The pond is surrounded by a 2-foot berm and has a concrete splash pad on the inlet side, but is otherwise unlined.

HISTORY OR EVIDENCE OF RELEASE: Wastes discharged to the unit would probably be released to the underlying soils.

VSI COMMENTS: The unit contained rainwater.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate, since the pond is unlined, and it is likely that some POL from either the concrete apron or run-up pad is washed into the drainage system.

Air - The potential for release to the atmosphere is moderate, since any volatiles draining to the unit are directly exposed to the air.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate methane gas are not handled.

RECOMMENDATION: Further investigation. Sample (PRL 228).

BUILDING 4305

Building 4305 is located at North Base south of 1st Street. It was assembled as a portable hangar (T-2) in 1942, the first building to be constructed at North Base. In September 1942, the crated pieces of the XP-59A "Airacomet," the country's first jet-propelled aircraft, were shipped to the new hangar and assembled by Bell Aircraft personnel. Although the first successful test flights were conducted in October 1942, the existence of the aircraft remained a closely guarded secret until January 1944. "The aircraft's designation was actually that of a propeller-driven aircraft which had never left Bell's drawing boards. To further sustain the ruse, a dummy wooden prop was usually mounted on the aircraft's nose whenever it was out on the ramp at North Base" (EAFB-D-103).

After Bell Aircraft moved out of Building 4305 in 1944, the 412th Air Squadron occupied the building until 1946, when the Air Force moved its programs to South Base, leaving contractors to work out of North Base. Northrop worked at Building 4305 from 1949 to 1955, testing the P-89 aircraft. Earth Technology was unable to determine who occupied the facility during the 1960s and 1970s. In 1967, a new wing (the Engineering Building) was added on the northern side of Building 4305. This wing was taken over by Advanced Range Data Systems (ARDS) in 1985. In 1989, Computer Sciences Corporation moved into the hangar portion of the building, which was converted to office space. The building is used strictly as office space today; no hazardous wastes are generated (SF B-4300 to 4307).

Like the other hangars at North Base, Building 4305 is boiler-heated. A 3,000-gallon Removed UST (AOC No. N4305/1) supplied heating oil No. 2 (diesel fuel) to the boiler room until 1990, when it was emptied. The tank was removed in September 1992. One aboveground Baker Tank is temporarily being used to supply heating oil to the building until it can be replaced by a Convault unit. Emissions from the boiler room are piped through a boiler stack at a heating facility (Building 4306) before release to the atmosphere. (Note: when observed during the VSI, the heating facility was labeled 4302) (SF B-4300 to 4307).

Based on 1967 as-built drawings, the building has a Storm Drain System (SWMU No. N4305/1) consisting of two concrete drainage trenches that run along the outside of the hangar's northern and southern walls, emptying into two catch basins on the west that in turn discharge to a Sump Pit (SWMU No. N4305/2) at Building 4302. (Note: when observed during the VSI, Building 4302 had been totally demolished and only its concrete foundation remains). Water from the sump pit was formerly pumped into an unlined drainage ditch that discharges to the Evaporation Pond (SWMU No. N4331/2) south of Building 4331. The Storm Drain System described above was installed in 1967, replacing the former drainage system that had been in place since 1946 (SF B-4300 to 4307).

A number of small facilities are associated with Building 4305. Building 4303, constructed in 1967, is an air compressor plant. Building 4308, north of Building 4305, is an electric substation constructed in 1967. Building 4307, west of Building 4305, is a warehouse constructed in 1969 (SF B-4300 to 4307).

A 1991 Environmental Compliance Audit reported an area of Fallen Asbestos Shingles (AOC No. N4305/2) on the ground outside Building 4305 (SF B-4300 to 4307; EAFB-D-100).

The SWMUs and AOCs associated with Building 4305 are shown in Figure 3-7 and described on the following pages.

SWMU No. N4305/1 Building 4305 Storm Drain System

INFORMATION SUMMARY: Site File B-4300 to 4307

LOCATION: The Storm Drain System consists of two concrete drainage trenches that run outside the northern and southern walls of Building 4305, and two catch basins, one located at the western end of each drainage trench.

SIZE: According to a 1967 as-built drawing, each drainage trench is approximately 160 feet long by 8 inches wide, and increases in depth from east to west. The two catch basins are 3 feet square by 2.4 feet deep.

MATERIAL: The drainage trenches and catch basins are constructed of 6-inch-thick concrete covered with metal grating.

CONNECTIONS: The drainage trenches discharge through 8-inch vitrified clay pipes (VCP) to the catch basins, which discharge through 8-inch VCPs to the Sump Pit (SWMU No. N4305/2) at former Building 4302.

PURPOSE: The Storm Drain System is used to convey rainwater away from Building 4305.

START UP: 1967. **DEACTIVATED:** Currently active.

WASTES MANAGED: The Storm Drain System removes rainwater and runoff from the area around Building 4305. Based on reports of former practices at other hangars, hazardous wastes including solvents and POL may have been discharged to the concrete drainage trenches.

RELEASE CONTROLS: The drainage trenches and catch basins are both constructed of 6-inch concrete. Connecting pipes are constructed of vitrified clay.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the integrity of the trenches and catch basins is unknown, and former waste management practices are unknown. The current release potential is low, since Building 4305 is currently used for office space only.

Air - The potential for release to the atmosphere is low, since the unit no longer handles hazardous wastes.

Subsurface Gas - The potential for generation of subsurface gas (methane) is iow, since wastes which might generate methane gas are not handled.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. N4305/2 Building 4305 Sump Pit

INFORMATION SUMMARY: Site File B-4300 to 4307

LOCATION: The Sump Pit is located inside the storm drain pump station at former Building 4302, approximately 100 feet southwest of Building 4305.

SIZE: According to a 1967 as-built drawing, the Sump Pit is 10 feet square by approximately 7 feet deep.

MATERIAL: The unit is constructed of 8-inch concrete, with a concrete cover and a 24-inch-diameter access manhole.

CONNECTIONS: Two 8-inch vitrified clay pipes (VCP) from the Storm Drain System (SWMU No. N4305/1) catch basins discharge to the Sump Pit. The Sump Pit was equipped with pumps that discharge to a drainage ditch on the west, which conveys stormwater to the Evaporation Pond (SWMU No. N4331/2) at the North Base sewage treatment plant.

PURPOSE: The Sump Pit was used to pump rainwater and runoff away from Building 4305 toward Rogers Dry Lake.

START UP: 1967. **DEACTIVATED:** Unknown.

WASTES MANAGED: The Sump Pit collected rainwater and runoff from the area around Building 4305, and pumped the water to the Evaporation Pond. Based on reports of former practices at other hangars, hazardous wastes including solvents and POL may have been discharged to the Sump Pit in the past.

RELEASE CONTROLS: The Sump Pit is constructed of 8-inch concrete. Connecting pipes are constructed of vitrified clay.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: The unit is currently buried under a large dirt pile at the concrete foundation remains of former Building 4302.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the integrity of the Sump Pit is unknown, and former waste management practices are unknown. The current release potential is low, since Building 4305 is currently used for office space only.

Air - The potential for release to the atmosphere is low, since the unit no longer handles hazardous wastes.

Subsurface Gas - The potential for generation of subsurface gas (methane) is iow, since wastes which might generate methane gas are not handled.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. N4305/3 Building 4305 Former Drainage System

INFORMATION SUMMARY: Site File B-4300 to 4307

LOCATION: According to a 1967 as-built drawing, the Former Drainage System consisted of two concrete drainage trenches that ran outside the northern and southern walls of Building 4305, discharging to a drainage ditch immediately west of the building.

SIZE: Each drainage trench was approximately 160 feet long with an unknown width and depth.

MATERIAL: The Drainage System was constructed of concrete.

CONNECTIONS: The drainage trenches discharged on the west to a former drainage ditch that was located approximately 20 feet west of Building 4305. When the new Storm Drain System (SWMU No. N4305/1) was installed in 1967, the existing drainage trenches were removed and stormwater drainage was rerouted approximately 80 feet to the west of Building 4305.

PURPOSE: The Former Drainage System was used to convey rainwater away from Building 4305.

START UP: 1946 or earlier. **DEACTIVATED:** 1967.

WASTES MANAGED: The Former Drainage System removed rainwater and runoff from the area around Building 4305. Based on reports of former practices at other hangars, hazardous wastes including solvents and POL may have been discharged to the concrete drainage trenches.

RELEASE CONTROLS: The drainage trenches were constructed of concrete.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: The unit was removed in 1967.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the integrity of the former trenches is unknown, and former waste management practices are unknown. The current release potential is low, since the unit was removed in 1967.

Air - The potential for release to the atmosphere is low, since the unit no longer handles hazardous wastes.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate methane gas are not handled.

RECOMMENDATION: No further investigation. The unit is no longer extant.

AOC No. N4305/1 Building 4305 Removed UST

INFORMATION SUMMARY: Site File B-4300 to 4307; Photos N-28 and N-29; Document EAFB-D-97

LOCATION: The unit (Tank No. N005) was located at the southwestern corner of Building 4305.

SIZE: According to a 1946 as-built drawing, the unit was a 4,000-gallon concrete UST, with approximate dimensions of 10 feet square by 8 feet deep.

PROBABLE WASTES: The tank stored heating oil used in the building's boiler room. It was permitted by the Kern County Environmental Health Department. The tank was emptied in 1990 and removed in September 1992. One aboveground Baker tank is now used to store heating oil for the boiler.

At the time of tank removal, five soil samples were obtained from beneath the tank at depths of 8 feet to 13.5 feet below grade (0.5 feet to 6 feet below the tank bottom). Preliminary (not validated) analytical results indicate that the shallower soil samples (8-foot and 8.5-foot samples) were contaminated with diesel fuel ranging from 2,000 mg/kg to 8,000 mg/kg. Diesel ranged from non-detect (< 11 mg/kg) to 110 mg/kg in the deeper (13-foot and 13.5-foot) soil samples. Two soil samples were obtained, at depths of 2 feet and 6 feet, where the pipeline from the UST entered the boiler room (Building 4306); diesel was detected at 6,800 mg/kg and 8,500 mg/kg in these samples. Xylenes were detected in all soil samples collected from depths of 8.5 feet and shallower, at concentrations ranging from 1.2 mg/kg to 10 mg/kg. Ethylbenzene was detected in two samples, at concentrations of 1.7 mg/kg and 3.1 mg/kg. Jet fuel, benzene and toluene were not detected in any sample.

CONCERN: The concrete pad and surrounding soils were heavily stained, indicating a history of release.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high, based on the visual evidence of heavily stained soils surrounding the concrete pad and the analytical results for soil samples collected at the time of tank removal. The current potential for release is low because the UST was removed in 1992.

Air - The potential for release to the atmosphere is low, because contaminated soils were covered with clean backfill.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of heating oil is not likely to generate significant quantities of methane gas.

RECOMMENDATION: Further investigation. Sample (Site 229).

AOC No. N4305/2 **Building 4305 Fallen Asbestos Shingles**

INFORMATION SUMMARY: Site File B-4300 to 4307; Document EAFB-D-100

LOCATION: The Fallen Asbestos Shingles are located on the ground outside the western and southwestern walls of Building 4305.

SIZE: Twelve Fallen Asbestos Shingles (building siding material) were observed in the ground adjacent to Buildings 4305 and 4302.

PROBABLE WASTES: The unit contains asbestos shingles.

CONCERN: According to a 1991 Environmental Compliance Audit, broken shingles containing asbestos were observed lying on the ground outside Building 4305. This observation was confirmed during a December 1992 VSI. Friable asbestos represents an environmental health hazard.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since asbestos fibers are not mobile in the vadose zone.

Air - The potential for release to the atmosphere is moderate, because asbestos fibers may become suspended in the air.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since asbestos wastes do not generate methane gas.

RECOMMENDATION: No further investigation. Remove shingles and dispose of properly.

BUILDING 4311

Building 4311, located approximately 200 feet west of Building 4305, is the location of the wellhead and pump house for Well No. 2 (USGS No. 10N/9W-7A2), a 10-inch-diameter, 200-foot water supply well that was installed in 1943 at North Base. It was part of a water supply system that included two wells, located west and south of Building 4305, a 200,000-gallon reservoir (Building 4316), a 10,000-gallon water tower, and three pump houses (see Buildings 4300 and 4317). It is estimated that Well No. 2 was used at least until the early 1960s, based on the fact that groundwater samples from the well were collected for chemical analyses of water quality at least through 1958. The well is not in use today (SF B-4311 to 4318; Dutcher, L.C., J.S. Bader, et al., 1962).

There are no SWMUs or AOCs associated with this building.

BUILDING 4315

Building 4315 is a gasoline station/pump island installed at North Base in the late 1960s. The building is located southeast of 2nd Street and about 30 feet east of Building 4318, the former motor vehicle pool. The station consists of a hand pump and two USTs. The 3,000-gallon Active UST (AOC No. N4315/1) contains unleaded gasoline. The 1,500-gallon Inactive UST (AOC No. N4315/2) formerly contained diesel fuel (SF B-4311 to 4318).

The AOCs associated with Building 4315 are shown on Figure 3-7 and described on the following pages.

AOC No. N4315/1 **Building 4315 Active UST**

INFORMATION SUMMARY: Site File B-4311 to 4318; Documents EAFB-D-38 and EAFB-D-117

LOCATION: The unit (Tank no. N007) is located east of Building 4315 (a pump island) and north of the Inactive UST (AOC No. N4315/2).

SIZE: According to a 1969 as-built drawing, the tank capacity is 3,000 gallons.

PROBABLE WASTES: The unit stores unleaded gasoline.

CONCERN: The tank was installed in 1969, and has been in operation for over 20 years, during which time spillage may have occurred associated with tank filling and gas pumping. A soil gas sample was obtained in 1988 from a depth of 5 feet, 27 feet north of the tank. The results indicated methane at 4 parts per million (ppm), carbon dioxide at 3,700 ppm, and tetrachloroethene (PCE) at 0.006 ppm. The former motor pool at Building 4318 is a possible source for the PCE that was detected. The tank is passed an integrity test in April 1993.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low based on 1993 integrity test results.

Air - The potential for release to the atmosphere is low, since the tank is underground.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of unleaded gasoline is not likely to generate significant quantities of methane gas. It was suggested that methane gas detected in the soil gas sample may have been due to leaking sewer pipes in the vicinity of the tank (EAFB-D-38).

RECOMMENDATION: No further investigation. Continue routine integrity tests.

AOC No. N4315/2 Building 4315 Inactive UST

INFORMATION SUMMARY: Site File B-4311 to 4318; Document EAFB-D-38

LOCATION: The unit (Tank No. N006) is located east of Building 4315, and south of the Active UST (AOC No. N4315/1).

SIZE: The UST has a capacity of 1,500 gallons.

PROBABLE WASTES: The tank stored diesel gasoline for fueling vehicles.

CONCERN: The tank was installed around 1974, and was in operation for close to 20 years, during which time spillage may have occurred associated with tank filling and gas pumping. A soil gas sample obtained in 1988 at a depth of 6 feet, 27 feet north of the tank, indicated 23,000 ppm carbon dioxide and 0.07 ppm tetrachloroethene (PCE). Based on this result, it was concluded that the tank had a high probability of leakage. The tank was emptied and removed from service in 1989, but remains in place. It is scheduled for removal under the base USTI program.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since the soil gas sample does not provide conclusive evidence that the unit leaked. The current potential for release is low because the UST is empty and inactive.

Air - The potential for release to the atmosphere is low, because the hand pump is no longer used to pump the diesel fuel.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of diesel fuel is not likely to generate significant quantities of methane gas. No methane was detected in the soil gas sample.

RECOMMENDATION: Further investigation. Sample (PRL 230).

BUILDING 4316

Building 4316 is located at North Base, southeast of 2nd Street. It is a 200,000-gallon water tank that formerly served both to supply domestic water and as a reservoir for emergency fire suppression. The tank was installed before 1945. Water was piped to the reservoir from Well Nos. 1 and 2 (see Buildings 4300 and 4311), and pumped from the reservoir via Pump House No. 3 (Building 4317) into a 10,000-gallon water tower and water supply pipes. The reservoir was reportedly used until 1985 (SF B-4311 to 4318).

Two areas of concern have been identified near this facility: an area of Fallen Asbestos Shingles (AOC No. N4316/1) and a Removed Transformer Unit (AOC No. N4316/2) (SF B-4311 to 4318; EAFB-D-100; Earth Technology, 1988).

The AOCs associated with Building 4316 are shown in Figure 3-7 and described on the following pages.

AOC No. N4316/1 **Building 4316 Fallen Asbestos Shingles**

INFORMATION SUMMARY: Site File B-4311 to 4318; Document EAFB-D-100

LOCATION: The Fallen Asbestos Shingles are located on the ground outside Building 4316.

SIZE: Numerous fallen asbestos shingles (building roofing material) were observed on the ground adjacent to and completely surrounding Building 4316.

PROBABLE WASTES: The unit contains asbestos shingles.

CONCERN: According to a 1991 Environmental Compliance Audit, broken shingles containing asbestos were observed lying on the ground outside Building 4316. This observation was confirmed during a December 1992 VSI. Friable asbestos represents an environmental health hazard.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since asbestos fibers are not mobile in the vadose zone.

Air - The potential for release to the atmosphere is moderate, because asbestos fibers may become suspended in the air.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since asbestos wastes do not generate methane gas.

RECOMMENDATION: No further investigation. Remove shingles and dispose of properly.

AOC No. N4316/2 **Building 4316 Removed Transformer Unit**

INFORMATION SUMMARY: Site File B-4311 to 4318; Photo N-31; Earth Technology (1988)

LOCATION: The unit was located at Building 4320, north of Building 4316. It was removed in 1991.

SIZE: The unit consisted of an abandoned transformer unit.

PROBABLE WASTES: The transformer unit was observed to have leaked oils; however the oil contains only 2 ppm PCBs.

CONCERN: The transformer unit was observed to be leaking during a 1988 Environmental Compliance Audit. No PCB label was present. Reportedly, the PCB content of oil in the transformer was 2 ppm.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is low since the unit contained only 2 ppm PCBs. The current potential for release is low because the unit has been removed.

Air - The potential for release to the atmosphere is low, because the wastes released are not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of transformer oils is not likely to generate significant quantities of methane gas.

RECOMMENDATION: No further investigation.

BUILDING 4317

Building 4317 is located at North Base, southeast of 2nd Street, and on the northeast side of the water storage tank (Building 4316). Building 4317 was built in 1944 as Pump House No. 3 for the water supply system. According to as-built drawings, the building was connected to an elevated 10,000-gallon water tank and the 200,000-gallon water reservoir (Building 4316). The 10,000-gallon tank no longer exists. Building 4317 was in use as recently as 1985, but was deactivated prior to 1989 (SF B-4311 to 4318).

Building 4317 contained two gasoline-powered pump engines which were fueled from a 500-gallon Inactive UST (AOC No. N-UST/12). Southeast of Building 4317 is a Battery Waste Area (SWMU No. N4317/1) (SF B-4311 to 4318).

The SWMU associated with Building 4317 is shown on Figure 3-7 and described on the following page.

SWMU No. N4317/1 **Building 4317 Battery Waste Area**

INFORMATION SUMMARY: Site File 4311 to 4318; Photo N-32 and N-33

LOCATION: The Battery Waste Area is located on the edge of a formerly paved area, now overgrown with vegetation, approximately 75 feet southeast of Building 4317. It is immediately adjacent to a small, rectangular concrete foundation.

SIZE: The unit appears to cover an area measuring about 10 feet by 10 feet.

MATERIAL: The unit consists of native soils on the edge of a formerly paved area.

CONNECTIONS: None.

PURPOSE: The unit appears to have been an area for the disposal of lead/acid battery-related wastes. The unit may have been associated with nearby Building 4318, which was formerly a motor pool facility.

START UP: Unknown. **DEACTIVATED:** Unknown.

WASTES MANAGED: The unit managed lead/acid battery-related wastes, possibly including acids and metals.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: *The unit appears to have released to the* surrounding soils.

VSI COMMENTS: The area was strewn with dozens of red, yellow, and black battery caps. There was no sign of battery casings. The soil in the area was bleached white compared to the light brown soils surrounding it.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high since wastes appear to have been disposed on the bare ground. The current potential is low since wastes are no longer disposed at the unit.

Air - The potential for release to the atmosphere is low since the waste is not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since battery wastes are inorganic and do not degrade to generate methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 231).

BUILDING 4318

Building 4318 is located at North Base, southeast of 2nd Street, approximately 200 feet northwest of Building 4305. It was built in 1967 and used as a motor pool complex through the 1970s, but today is used to store Hazardous Materials Spill Response Equipment for Computer Sciences Corporation (CSC). Low concentrations of PCE were detected in soil gas samples collected in 1988 north of the USTs associated with Building 4315. The Former Motor Pool (AOC No. N4318/1) may have been a source for the PCE (SF B-4311 to 4318; EAFB-D-38).

The AOC associated with Building 4318 is shown in Figure 3-7 and described on the following page.

AOC No. N4318/1 **Building 4318 Former Motor Pool**

INFORMATION SUMMARY: Site File B-4311 to 4318; Document EAFB-D-38

LOCATION: The former Motor Pool was in Building 4318, southeast of 2nd Street.

SIZE: The unit includes the dirt areas surrounding Building 4318.

PROBABLE WASTES: Waste POL and solvents may have been released to the ground outside the former motor pool.

CONCERN: Building 4318 was built in 1967 and was used as a motor pool complex through the 1970s. Although details of waste management practices at the former motor pool are unknown, based on known past practices elsewhere on base, discharge to the ground surface may have occurred. Soil gas samples taken in 1988 north of the Active UST (AOC No. 4315/1) and Inactive UST (AOC No. N4315/2) at the Building 4315 gas station identified low concentrations (0.07 ppm) of PCE.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of past waste management practice are unknown. The current potential for release is low since the building no longer serves as a motor pool complex.

Air - The potential for release to the atmosphere is low since the unit is no longer used as a motor pool complex.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes that would generate methane gas were probably not handled.

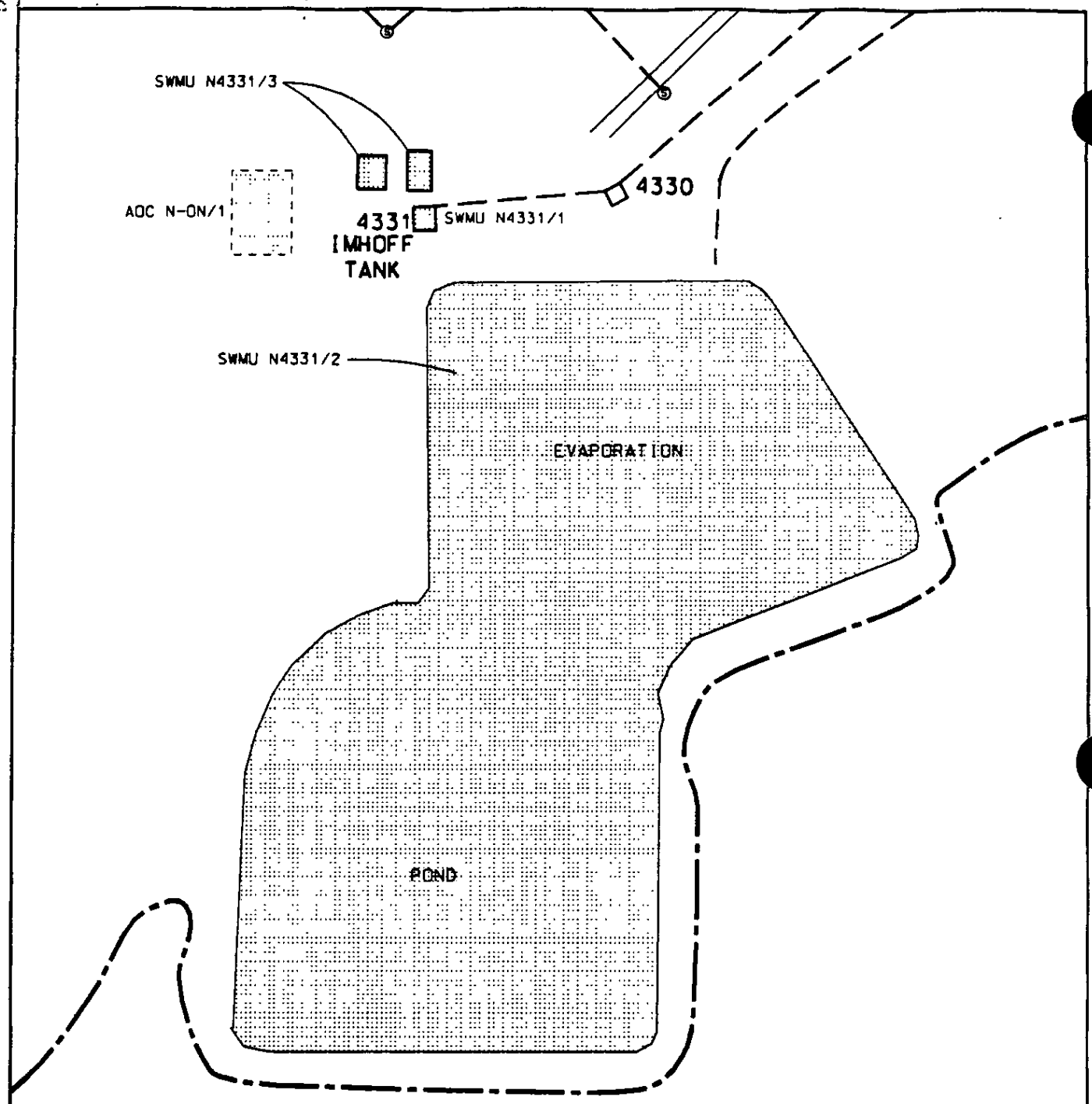
RECOMMENDATION: Further investigation. Sample (PRL 230).

BUILDING 4331

Building 4331 is the location of the Imhoff Tank (SWMU No. N4331/1) for the North Base Sewage Treatment Plant (STP). It is located approximately 800 feet south of the intersection of North Base Road and E Street, at the southern end of North Base. The North Base STP was installed around 1944, and was used until the early 1970s when the North Base was deactivated. The system was reactivated in 1984. It is independent of the Main Base sewer system. When the new STP at South Base comes on line (anticipated sometime between 1993 and 1995), the North Base sewer system will be connected to it and the current North Base STP will be inactivated. The North Base STP has a design capacity of 0.125 million gallons per day (mgd). It is not metered, so the average daily flow is unknown, but is reportedly around 10,000 gallons per day (SF B-4331; Earth Technology, 1988).

The STP includes the Imhoff Tank, which discharges wastewater to an Evaporation Pond (SWMU No. N4331/2), and sludge to the Sludge Drying Beds (SWMU No. N4331/3). The STP is fed by a network of Sewer Lines (SWMU No. N4331/4) which reportedly transfer only sanitary wastewater to the plant. The system is partially gravity fed and uses two lift stations (Buildings 4330 and 4451). General flow in the system is from north to south. The sewer lines serve most of North Base; a few outlying areas use septic systems (SF B-4331).

The SWMUs associated with Building 4331 are shown in Figure 3-8 and described on the following pages.



SWMU/AOC LOCATION (known unit, discrete location)

SWMU/AOC LOCATION (known unit, approx. limits)

SWMU/AOC LOCATION (suspected unit, estimated location)

UST LOCATION OF UST (known unit)

UST LOCATION OF UST (suspected unit)

R REMOVED UST

NORTH

0 100 200 FEET
SCALE

The Earth Technology Corporation

Project no.: 91-1006

BASE WIDE MISCELLANEOUS ESI / RFA

Building 4331

9-93

Figure 3-8

EDWARDS\9110062T\A0232MPB.AO3

SWMU No. N4331/1 Building 4331 Imhoff Tank

INFORMATION SUMMARY: Site File B-4331; Photos N-35 and N-36; Earth Technology (1988)

LOCATION: The Imhoff Tank is identified as Building 4331. It is located about 800 feet south of the intersection of North Base Road and E Street at North Base.

SIZE: According to a 1944 as-built drawing, the unit is partially underground and is approximately 22 feet long by 12.5 feet wide by 15 feet deep.

MATERIAL: The tank is constructed of wood with a concrete base.

CONNECTIONS: The unit has a 6-inch cast-iron influent pipe carrying sewage from the lift station at Building 4330, and another 6-inch cast-iron effluent pipe leading to an unlined drainage ditch on the south that discharges to the Evaporation Pond (SWMU No. N4331/2). A valve allows sludge to be drawn off and piped to the Sludge Drying Beds (SWMU No. N4331/3) as needed. Reportedly, sludge has not been removed from the Imhoff Tank since at least 1989.

PURPOSE: The unit is used as a primary treatment facility (settling tank) for sewage from North Base.

START UP: 1944. **DEACTIVATED:** Early 1970s; reactivated 1984.

WASTES MANAGED: The Imhoff Tank reportedly manages domestic sewage only. However, based on known past practices at other areas of Edwards AFB, the unit may have managed hazardous wastes and constituents such as POL and solvents.

RELEASE CONTROLS: The unit has a wooden cover.

HISTORY OR EVIDENCE OF RELEASE: An environmental compliance audit conducted in 1988 reported that the Imhoff Tank was not functioning properly, and that untreated wastewater from North Base may have been released to the environment.

VSI COMMENTS: The wood covering the unit appeared old and weather-beaten; the interior could not be viewed. The unit was apparently functional at the time of the VSI.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the unit is unknown. According to a 1988 Environmental Compliance Audit, the unit was not functioning properly at that time.

Air - The potential for release to the atmosphere is low since the unit does not handle volatile wastes.

Subsurface Gas - The potential for generation of subsurface gas (methane) is unknown since the integrity of the unit is unknown.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. N4331/2 Building 4331 Evaporation Pond

INFORMATION SUMMARY: Site File B-4331; Photos N-37 and N-38

LOCATION: The northern edge of the Evaporation Pond is located about 100 feet south of the Imhoff Tank (SWMU No. N4331/1), on the western edge of Rogers Dry Lake.

SIZE: The unit covers an area of about 10 acres and appears to be no more than 1 foot to 2 feet deep.

MATERIAL: The unit is constructed of native soils and is not lined. It has a low earthen berm surrounding it.

CONNECTIONS: The Imhoff Tank discharges to a 6-inch cast-iron pipe that empties into an unlined drainage ditch leading to the Evaporation Pond. The unit reportedly receives an estimated 10,000 gallons to 15,000 gallons of effluent daily from the Imhoff Tank. The drainage ditch also carries runoff from North Base facilities south of the taxiway. The Evaporation Pond has no outlet.

PURPOSE: The unit is used to dispose of wastewater from the Imhoff Tank.

START UP: 1944. **DEACTIVATED:** Early 1970s; reactivated 1984.

WASTES MANAGED: Waste managed by the Evaporation Pond includes mainly domestic sewage. In the past, wastewater may have included hazardous constituents such as POL and solvents.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: If the unit managed any hazardous waste or constituents, they would be in direct contact with underlying soils.

VSI COMMENTS: The unit contained no standing water, and reportedly never does. Lush green vegetation was growing in the far northern section of the unit.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since there are no release controls and the unit may have managed hazardous waste or constituents. The current potential is low since hazardous wastes are not presently handled by the unit.

Air - The potential for release to the atmosphere is low since the unit does not handle volatile waste.

Subsurface Gas - The potential for generation of subsurface gas (methane) is moderate since wastewater managed by the unit contains organics that may be degraded anaerobically.

RECOMMENDATION: Further investigation. Sample (PRL 232).

SWMU No. N4331/3 Building 4331 Sludge Drying Beds

INFORMATION SUMMARY: Site File B-4331

LOCATION: The two Sludge Drying Beds are located north of the Imhoff Tank (SWMU No. N4331/1).

SIZE: The units are each about 20 feet wide, 40 feet long, and 2 feet deep.

MATERIAL: The Sludge Drying Beds are constructed of native soils. They appear to have been made by excavating a shallow depression and placing the removed soils around the edge to form a berm.

CONNECTIONS: As necessary, a valve may be opened at the Imhoff Tank, allowing sludge to be piped to the Sludge Drying Beds. Reportedly, no sludge has been drawn off since at least 1989.

PURPOSE: The unit is used to dry sludge periodically removed from the Imhoff Tank.

START UP: 1944. **DEACTIVATED:** Early 1970s; reactivated 1984.

WASTES MANAGED: The unit manages sludge from the Imhoff Tank. In the past, the sludge may have contained hazardous waste or constituents such as POL and solvents.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Since the unit is constructed of native soils, it may have released to the underlying soil.

VSI COMMENTS: Soils in the unit were darker in color than the surrounding soils. A small amount of brush was growing in the unit.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate since wastes are stored in direct contact with soils.

Air - The potential for release to the atmosphere is low since only small amounts (if any) of volatile wastes are managed.

Subsurface Gas - The potential for generation of subsurface gas is moderate since leachate from the sludge may percolate underground where organic materials may be degraded anaerobically.

RECOMMENDATION: Further investigation. Sample (PRL 233).

SWMU No. N4331/4 Building 4331 Sewer Lines

INFORMATION SUMMARY: Site File B-4331; Document EAFB-D-38

LOCATION: The Sewer Lines form a network underneath North Base. A central line runs from the northern end of North Base near Building 4505, southwest along 1st Street, and on to the Imhoff Tank (SWMU No. N4331/1). There are numerous feeder lines, mainly from areas to the northwest. The SWMU is shown on Plate 1, Sheet 1.

SIZE: The main lines are 8-inch pipes; feeder lines are as small as 2-inch pipes. The main line is about 0.5 mile long.

MATERIAL: The lines are made of vitrified clay pipe.

CONNECTIONS: The lines receive wastewater from tens of buildings on the North Base. Eventually, they are connected to a main line which discharges to the Imhoff Tank. Flow in the system is generally from north to south.

PURPOSE: The Sewer Lines collect wastewater from buildings, carrying it to the Imhoff Tank. The system is partially gravity fed. However, there are two lift stations: one at Building 4451, near the center of North Base (Figure 3-7), and the other at Building 4330, about 200 feet east of the Imhoff Tank (Figure 3-8).

START UP: 1944. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit normally manages domestic sewage. In the past it may have managed wastewater contaminated with hazardous waste and constituents such as POL and solvents.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release, but given the age of the unit, releases are probable. Methane detected in soil gas samples taken in the vicinity of various underground tanks at the North Base in 1988 was attributed to potential sewer line leaks.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soil and groundwater is unknown since the integrity of the unit is unknown. The current potential is low since hazardous wastes are no longer handled.

Air - The potential for release to the atmosphere is low since the lines are underground.

Subsurface Gas - The potential for generation of subsurface gas (methane) is unknown since the integrity of the unit is unknown.

RECOMMENDATION: Further investigation. Check unit integrity.

BUILDING 4389

Building 4389, General Electric's North Test Cell, is located at North Base, northeast of the NASA facilities, on the eastern side of Lake Shore Drive. The cell was built in the early 1970s to test aircraft engines. It consists of two buildings, six Aboveground Fuel Tanks (AOC No. N4389/1), one aboveground compressed air tank, one Removed Underground Fuel Tank (AOC No. N4389/2), a storage yard containing an Accumulation Point (SWMU No. N4389/1), and an Engine Test Cell (AOC No. N4389/3). The three largest Aboveground Fuel Tanks and the engine test cell are permitted by the Kern County Air Pollution Control District (SF B-4389).

The two buildings are used for data processing and for administrative office space. One of the buildings is numbered 4389; the other building does not have a number and appears to be newer (SF B-4389).

The contents and capacities of the Aboveground Fuel Tanks are as follows:

- Gasoline - 500 gallons
- Diesel - 500 gallons
- Unleaded gasoline - 300 gallons
- JP-4 - 20,000 gallons
- Jet A - 13,000 gallons
- Jet A - 10,600 gallons.

The three largest tanks sit on metal cradles and are enclosed by an earthen berm about 55 feet by 55 feet by 4 feet high. *Environmental compliance audits prepared in* 1988 (Earth Technology, 1988) and 1991 (EAFB-D-100) cite the earthen berm as inadequate containment for the tanks and recommend replacement of the berm and/or installation of a liner. The two 500-gallon tanks sit on cradles about 7 feet tall in a small earthen berm lined with plastic. Reportedly, the berm was constructed in 1991 following an incident in which the diesel tank overflowed. Contaminated soils were removed following the overflow incident and, at the time of the VSI, were being stored at the Accumulation Point awaiting proper disposal. The 300-gallon tank also sits on a 7-foot-high cradle, but is not bermed (SF B-4389). Reportedly in 1989, an underground fuel line leading from the aboveground tank area to the test engine cell leaked. The pipe was replaced and the contaminated dirt was removed and properly disposed (SF B-4389).

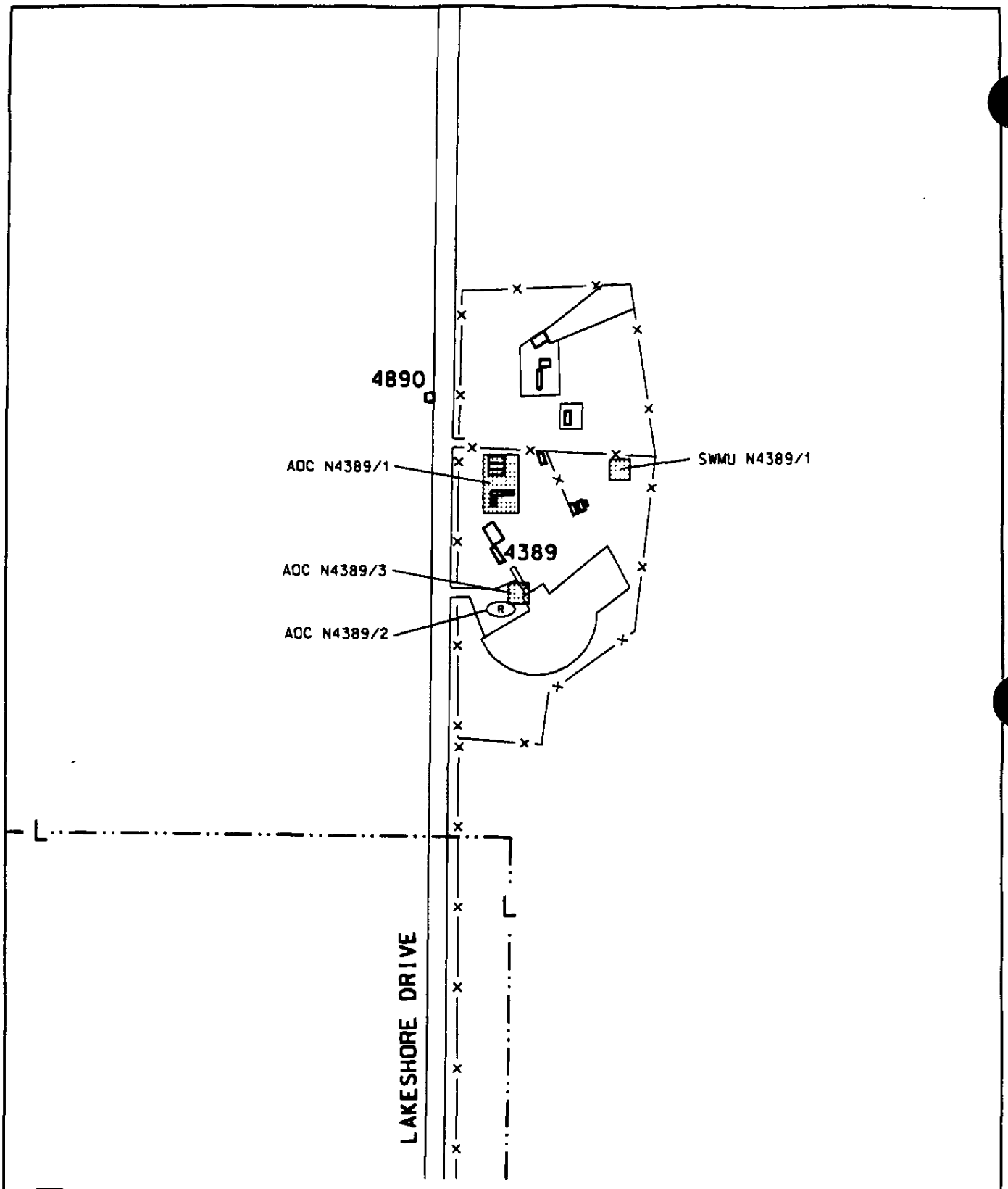
The Removed Underground Fuel Tank had a capacity of 10,000 gallons and contained JP-4 fuel. It was installed in 1975 and was removed in 1982. The storage yard is unpaved, and measures approximately 100 feet square. It contains an aluminum storage shed, about 5 feet square, used to store various oils such as hydraulic oil, turbo oil, and pump oil. A metal shop with dimensions of 8 feet by 38 feet is also located inside the yard. Adjacent to the shop is an accumulation of empty 5-gallon cans of jet oil, lube oil, and hydraulic fluid. The cans sit on a wooden floor covered by a thin wooden roof, which also extends over the metal shop and a

tool crib building on the eastern side. Adjacent to the tool crib is a truck trailer which is used as an auxiliary tool crib. Scattered around the yard are wooden pallets resting on concrete blocks and miscellaneous pieces of metal (SF B-4389).

On the northern side of the yard is an Accumulation Point, where 55-gallon drums are stored on wooden pallets. At the time of the VSI in April 1991, most of the drums were empty. However, some contained waste jet fuel and oils or diesel-contaminated soil. Forty-nine other drums of diesel-contaminated soil were set outside the yard on the western side (SF B-4389).

The Engine Test Cell is set on concrete. At the time of the VSI, the first round of tests on an engine had just been completed. The area was observed to be heavily stained with engine oil, the largest pool of which was approximately 1/2 inch deep and 2 feet in diameter. According to personnel, the test cell is typically not cleaned up until after testing is finished (SF B-4389).

The SWMU and AOCs associated with Building 4389 are shown in Figure 3-9 and described on the following pages.



SWMU/AOC LOCATION (known unit, discrete location)

SWMU/AOC LOCATION (known unit, approx. limits)

SWMU/AOC LOCATION (suspected unit, estimated location)

UST LOCATION OF UST (known unit)

UST LOCATION OF UST (suspected unit)

R REMOVED UST

NORTH

0 100 200 FEET
SCALE

The Earth Technology Corporation

Project no.: 91-1006

BASE WIDE MISCELLANEOUS ESI / RFA

Building 4389

9-93

Figure 3-9

EDWARDS\91100621\A023SMPB.A03

SWMU No. N4389/1 Building 4389 Accumulation Point

INFORMATION SUMMARY: Site File B-4389

LOCATION: The 90-day unit is located in the northern portion of the storage yard at the North Test Cell, northeast of Building 4389.

SIZE: The unit consists of two areas, one approximately 20 feet by 20 feet and another approximately 8 feet by 40 feet.

MATERIAL: The unit consists of 55-gallon drums stored on wooden pallets on unpaved ground.

CONNECTIONS: None.

PURPOSE: The unit is used to store hazardous waste until transport to the base Hazardous Waste Storage Facility at Building 4916.

START UP: Unknown, possibly 1970s. **DEACTIVATED:** Currently active.

WASTES MANAGED: Wastes managed by the unit include waste jet fuel and engine oil, and diesel-contaminated soils.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: At the time of the VSI, the 8-foot by 40-foot area was in use for the temporary storage of drums filled with diesel-contaminated soil, from an overflow incident at the Aboveground Fuel Tanks (AOC No. N4389/1). According to GE personnel, that area is not usually used for hazardous waste storage. No staining was observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate since the unit provides no secondary containment.

Air - The potential for release to the atmosphere is low since wastes are stored in closed containers.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not managed.

RECOMMENDATION: No further investigation. Provide secondary containment.

AOC No. N4389/1 **Building 4389 Aboveground Fuel Tanks**

INFORMATION SUMMARY: Site File B-4389; Document EAFB-D-100; Earth Technology (1988)

LOCATION: The units are located in the northern portion of General Electric's North Test Cell facility, north of Building 4389 and west of the storage yard.

SIZE: The six tanks have the following capacities: 20,000 gallons, 13,000 gallons, 10,600 gallons, 500 gallons, 500 gallons, and 300 gallons. The three largest tanks sit on metal cradles and are enclosed by an earthen berm about 55 feet by 55 feet by 4 feet high. The two 500-gallon tanks sit on cradles about 7 feet tall in a small earthen berm lined with plastic. The third small tank also sits on a 7-foot-high cradle, but is not bermed.

PROBABLE WASTES: The three largest tanks store JP-4 and Jet A fuel. They are under Kern County Air Pollution Control District Permits to Operate. The smaller tanks store diesel fuel, gasoline, and unleaded gasoline.

CONCERN: Environmental compliance audits prepared in 1988 (Earth Technology, 1988) and 1991 (EAFB-D-100) cite the earthen berm as inadequate containment for the three largest tanks and recommend replacement of the berm and/or installation of a liner. Reportedly, the berm around the two 500-gallon tanks was constructed in 1991 following an incident in which the diesel tank overflowed. Contaminated soils were removed, and at the time of the VSI were stored in drums awaiting removal. The amount of soil removed was based on visual criteria.

Reportedly in 1989, an underground fuel line connecting the aboveground tank area and the test engine cell leaked. The pipe was replaced and the contaminated dirt was removed and properly disposed. According to staff personnel, at the time the pipe was dug up for removal, it was discovered to have numerous small holes.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate, based on the reported diesel and jet fuel leakage. The current potential for release is moderate because the earthen berm does not provide adequate containment for the three large tanks.

Air - The potential for release to the atmosphere is low. No soil staining was observed and contaminated soils were reportedly removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of the fuels is not likely to generate significant quantities of methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 234).

AOC No. N4389/2 **Building 4389 Removed Underground Fuel Tank**

INFORMATION SUMMARY: Site File B-4389

LOCATION: The unit (Tank No. N021) was located south of the North Test Cell facility.

SIZE: The unit was a 10,000-gallon UST.

PROBABLE WASTES: The tank stored JP-4 jet fuel.

CONCERN: The tank was installed in 1975 and removed in 1982.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown. The current potential for release is low because the tank was removed.

Air - The potential for release to the atmosphere is low, because leakage if any, occurred underground and contaminated soils were reportedly removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of JP-4 fuel is not likely to generate significant quantities of methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 234).

AOC No. N4389/3 **Building 4389 Engine Test Cell**

INFORMATION SUMMARY: Site File B-4389

LOCATION: The unit is located south of Building 4389.

SIZE: The Engine Test Cell is approximately 15 feet wide by 15 feet long by 30 feet high.

PROBABLE WASTES: Jet engine fuel and engine oil spill onto the concrete underlying the Engine Test Cell during tests. The unit holds a Kern County Air Pollution Control District Permit to Operate.

CONCERN: Engines have been tested at the facility since the 1970s and apparently the spillage of jet fuels and oils during testing is considered a normal part of the process. Cleanup is not performed until all of the testing is finished. Although the spillage is on concrete, drainage openings were observed about 10 feet to the northeastern side of the test cell. Spillage may migrate to the openings.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soil and groundwater is high since spillage occurs during testing and is not cleaned immediately, allowing waste jet fuel and engine oil to run off the pavement into the surrounding dirt.

Air - The potential for release to the atmosphere is moderate since volatile wastes are exposed to the air.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of waste fuels and oils is not likely to generate significant quantities of methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 234).

BUILDING 4400

Building 4400, constructed in 1969, is located east of 1st Street, between Buildings 4401 and 4402 at North Base. It is a warehouse currently being used to store supplies and equipment for the 6513th Test Squadron. An Inactive UST (AOC No. N4400/1) is located southwest of the building (SF B-4400/4401/4402).

The AOC is shown in Figure 3-7 and described on the following page.

AOC No. N4400/1 **Building 4400 Removed UST**

INFORMATION SUMMARY: Site File B-4400/4401/4402; Documents EAFB-D-79 and EAFB-D-97

LOCATION: The unit (Tank No. N009) was located southwest of Building 4400.

SIZE: According to base records (EAFB-D-79), the tank had a capacity of 3,000 gallons. However, at the time of removal (January, 1993), the capacity was found to be approximately 1,000 gallons. The tank was installed in the 1943-1944 time period.

PROBABLE WASTES: According to base records and analytical results, the tank contained diesel fuel. A 1943 as-built drawing shows a tank containing oil in the same approximate location.

CONCERN: The Inactive UST was located under a wind-blown soil cover. Staining was observed on the ground surface around the fill box. Prior to tank removal (September, 1992) a soil sample was obtained from 4 feet inside the UST, since it had apparently been filled with soil. The sample was analyzed for benzene, toluene, ethylbenzene, xylenes, diesel, and jet fuel. Diesel fuel was detected at 4,000 mg/kg. At the time of tank removal, two soil samples were collected from beneath the UST at depths of 6 feet and 7 feet below grade. Two more soil samples were collected at 2.5 feet below grade, beneath the associated piping. Preliminary (not validated) analytical results are herein summarized. Diesel fuel was detected at 940 mg/kg (7-foot depth), jet fuel, benzene, toluene, ethylbenzene, and xylenes were not detected.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soil and groundwater is moderate, based on the observation of staining on the soils around the unit. The current potential for release is low since the tank has been removed.

Air - The potential for release to the atmosphere is moderate since wastes may volatilize from the stained ground surface.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of fuel oil is not likely to generate significant quantities of methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 235).

BUILDING 4401

Building 4401, located east of 1st Street, was built in the early 1940s as Hangar T-21 at Test Base (North Base). General Electric occupied the building from approximately 1943 to 1945, performing engine overhauls. Later the building was used by a variety of contractors, and as a storage facility where solvent and fuel disposal reportedly occurred. Today the building is a high-security facility. No interior visual inspection was conducted (SF B-4400/4401/4402).

Like the other hangars at North Base, Building 4401 is boiler heated. A Removed UST (AOC No. N4401/1), located on the southwestern corner of the building, supplied heating oil for the boiler until 1990 when it was emptied. The UST was removed in September 1992. Emissions from the boiler room are piped through a boiler stack before release to the atmosphere. A Floor Drain (SWMU No. N4401/1) runs along the length of the hangar door on the building's eastern side (SF B-4400/4401/4402).

Reportedly, Hangar 4401 has a Satellite Accumulation Point (SWMU No. N4401/2) with storage outside the building. This unit was not visited.

The SWMUs and AOC associated with Building 4401 are shown in Figure 3-7 and described on the following pages.

SWMU No. N4401/1 **Building 4401 Floor Drain**

INFORMATION SUMMARY: Site File B-4400/4401/4402

LOCATION: The unit is located on the eastern side of the building, adjacent to the hangar door.

SIZE: The unit is approximately 140 feet long by 6 feet wide by an estimated 1 foot to 2 feet deep. The top of the unit is flush with the floor of the hangar.

MATERIAL: The unit is constructed of concrete with a steel grate cover.

CONNECTIONS: Unknown, but assumed to discharge to the storm drain system.

PURPOSE: The floor drain is used to collect rainwater which might enter through the hangar door. In the past, it may have been used to collect spills of solvents and jet fuels used in aircraft development and maintenance.

START UP: 1944. **DEACTIVATED:** Currently active.

WASTES MANAGED: Wastes potentially discharged to the unit include solvents such as carbon tetrachloride and trichloroethene, and jet fuels including JP-1.

RELEASE CONTROLS: Unknown.

HISTORY OR EVIDENCE OF RELEASE: An unknown quantity of solvents, fuels and oils may have been released through the floor drain during the 1940s, 1950s, and 1960s.

VSI COMMENTS: No VSI was conducted since the unit is in a high-security area.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the integrity of the unit is unknown. The current potential is low, because hazardous wastes are no longer discharged to the unit.

Air - The potential for release to the atmosphere is low, since the unit no longer handles hazardous waste.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate such gas were not discharged.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. N4401/2 **Building 4401 Satellite Accumulation Point**

INFORMATION SUMMARY: Site File B-4400/4401/4402

LOCATION: The exact location of the unit outside Building 4401 is unknown; therefore, the unit is not shown in Figure 3-7.

SIZE: Unknown.

MATERIAL: Unknown.

CONNECTIONS: Unknown.

PURPOSE: The unit is used for accumulation of hazardous wastes generated at Building 4401. Details of the unit are unknown since it is at a high-security facility.

START UP: Unknown. **DEACTIVATED:** Unknown.

WASTES MANAGED: Unknown.

RELEASE CONTROLS: Unknown.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: No VSI was conducted since the unit is in a high-security area.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown, since details of the unit are unknown.

Air - The potential for release to the atmosphere is unknown, since details of the unit are unknown.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes handled are unlikely to generate methane gas.

RECOMMENDATION: Further investigation. Check unit integrity.

AOC No. N4401/1 Building 4401 Removed UST

INFORMATION SUMMARY: Site File B-4400/4401/4402; Photo N-27; Document EAFB-D-97

LOCATION: The unit (Tank No. N008) was located at the southwestern corner of Building 4401.

SIZE: A 1944 engineering drawing lists the tank capacity at 3,000 gallons. However, from at least 1968 until 1992, it was permitted as a 4,000-gallon tank.

PROBABLE WASTES: The concrete tank, which was apparently installed around the time of hangar construction in 1944, stored heating oil used in the building's boiler room. It was inactivated in 1990 and replaced by two 2,000-gallon, aboveground Convault units. The tank was removed in September 1992.

CONCERN: The concrete pad and surrounding soils were heavily stained, indicating a history of spillage during filling or a release from tank overfilling. At the time of tank removal, three soil samples were collected from beneath the tank at depths of 10 feet to 14 feet below grade (2 feet to 6 feet below the tank bottom). Preliminary (not validated) analytical results are herein summarized. Diesel fuel was detected at concentrations ranging from 2,500 mg/kg to 14,000 mg/kg. Toluene ranged from <0.6 mg/kg to 2.5 mg/kg and xylenes ranged from 5.7 mg/kg to 22 mg/kg. Jet fuel, benzene and ethylbenzene were not detected. Two soil samples were collected, at depths of 2 feet and 4 feet below grade, where the pipeline from the UST entered the boiler room in Building 4401. Diesel ranged from <11 mg/kg in the 4-foot sample to 79 mg/kg in the 2-foot sample. No jet fuel or BTEX were detected in the two samples collected adjacent to Building 4401.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high, based on the visual evidence of heavily stained soils surrounding the concrete pad and the analytical results for soil samples collected at the time of tank removal. The current potential for release is low because the UST was removed in 1992.

Air - The potential for release to the atmosphere is low, since contamination is subsurface beneath clean backfill.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since heating oil is not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (Site 236).

BUILDING 4402

Building 4402, located east of 1st Street and South of A Street, was built in the early 1940s as Hangar T-22 at Test Base (North Base). The Air Force's 412th Test Squadron occupied the building in the early days, when it was used for aircraft maintenance. Building 4402 was used by the U-2 program during the 1960s. Two dark rooms were in operation at that time; reportedly, chemicals used in photoprocessing were disposed of in Dark Room Sinks (SWMU No. N4402/1) or through the Dark Room Floor Vault (SWMU No. N4402/2). The building underwent various modifications in the late 1960s and again in 1983. Today the building is used for short-term, secret tests that run for a period of 30 to 60 days. The facility was empty at the time of the visual inspection (SF B-4400/4401/4402).

Like the other hangars at North Base, Building 4402 is boiler heated. A Removed UST (AOC No. N4402/1), located west of the building, supplied heating oil for the boiler until 1990, when it was emptied. The UST was removed in September 1992. Emissions from the boiler room are piped through a boiler stack before release to the atmosphere. A Floor Drain (SWMU No. N4402/3) runs along the length of the hangar door on the building's eastern side (SF B-4400/4401/4402).

In 1942, before Building 4402 was constructed, there were only two buildings at North Base: Hangar T-2 (Building 4305), and housing quarters to the northwest (later an Officers Quarters; no longer extant). Sanitary sewage from the housing quarters discharged to a Former Sanitary Sump (SWMU No. N4402/4) in the vicinity of the present-day Building 4402 (SF B-4400/4401/4402).

The SWMUs and AOC associated with Building 4402 are shown in Figure 3-7 and described on the following pages.

SWMU No. N4402/1 **Building 4402 Dark Room Sinks**

INFORMATION SUMMARY: Site File B-4400/4401/4402

LOCATION: The units were located inside the Building 4402 dark rooms.

SIZE: Unknown.

MATERIAL: Unknown.

CONNECTIONS: The units were connected to sinks in the dark room and to the sewer system.

PURPOSE: The Dark Room Sinks were used to supply water for photograph development. Reportedly, photochemicals were discarded down the units.

START UP: 1960s. **DEACTIVATED:** Estimated 1968.

WASTES MANAGED: Reportedly, photochemical reagents, possibly containing silver, were discarded down dark room sink drains.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: The sinks were reportedly used to dispose of photochemical reagents during the period of the U-2 program at North Base, roughly 1960 to 1968.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the integrity of the sewer pipelines is unknown. The current potential for release is low, since the sinks are no longer used to dispose of photochemical reagents.

Air - The potential for release to the atmosphere is low, since the units no longer handle hazardous waste.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not discharged.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. N4402/2 **Building 4402 Dark Room Floor Vault**

INFORMATION SUMMARY: Site File B-4400/4401/4402

LOCATION: The unit is located inside one of the Building 4402 dark rooms.

SIZE: The unit is approximately 2 feet by 3 feet.

MATERIAL: The unit is composed of dirt.

CONNECTIONS: The floor vault apparently drains to the surrounding soils.

PURPOSE: Reportedly, photochemicals may have been disposed of in the floor vault.

START UP: 1960s. **DEACTIVATED:** Estimated 1968.

WASTES MANAGED: Reportedly, photochemical reagents, possibly containing silver, were disposed of in the floor vault.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: The floor vault was reportedly used to dispose of photochemical reagents during the period of the U-2 program at North Base, roughly 1960 to 1968.

VSI COMMENTS: No staining was observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate, based on anecdotal reports of photochemical disposal to the ground surface. The current potential for release is low, since the unit is no longer used to dispose of photochemical reagents.

Air - The potential for release to the atmosphere is low, since hazardous wastes are no longer discharged to the unit.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not discharged.

RECOMMENDATION: Further investigation. Sample (PRL 237).

SWMU No. N4402/3 Building 4402 Floor Drain

INFORMATION SUMMARY: Site File B-4400/4401/4402

LOCATION: The unit is located on the eastern side of Building 4402, adjacent to the hangar door.

SIZE: The unit is approximately 140 feet long by 6 feet wide by an estimated 1 foot to 2 feet deep. The top of the unit is flush with the floor of the hangar.

MATERIAL: The unit is constructed of concrete with a steel grate cover.

CONNECTIONS: Unknown, but assumed to discharge to the storm drain system.

PURPOSE: The floor drain is used to collect rainwater which might enter through the hangar door. In the past, it may have been used to collect spills of solvents and jet fuels used in aircraft development and maintenance.

START UP: 1944. **DEACTIVATED:** Currently active.

WASTES MANAGED: Wastes potentially discharged to the unit include solvents such as carbon tetrachloride and trichloroethene, and jet fuels including JP-1.

RELEASE CONTROLS: Unknown.

HISTORY OR EVIDENCE OF RELEASE: An unknown quantity of solvents, fuels and oils may have been released through the floor drain during the 1940s, 1950s, and 1960s.

VSI COMMENTS: No VSI was conducted.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the integrity of the unit is unknown. The current potential is low, since hazardous wastes are no longer discharged to the unit.

Air - The potential for release to the atmosphere is low, since the unit no longer handles hazardous waste.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate such gases were not discharged.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. N4402/4 **Building 4402 Former Sanitary Sump**

INFORMATION SUMMARY: Site File B-4400/4401/4402

LOCATION: The former unit was located just south and east of where Building 4402 stands today.

SIZE: According to a 1943 as-built drawing, the unit measured approximately 200 feet by 300 feet and was approximately 2 feet deep.

MATERIAL: The unit was unlined, and constructed of native soils. It was diked by a low earthen berm.

CONNECTIONS: According to a 1943 as-built drawing, a 2.5-inch sewer line ran from housing quarters northwest of Hangar T-2 (Building 4305) to a "Hygi-Sept" sanitary sewage disposal system, consisting of two units, each having a capacity of 1,000 gallons. From the Hygi-Sept system, a 6-inch drain tile ran down the center of a 1.5-inch-deep drainage ditch into the Former Sanitary Sump. The unit was emptied by evaporation.

PURPOSE: The unit was used to dispose of sanitary wastes from the former housing quarters located at North Base.

START UP: 1943. **DEACTIVATED:** 1944.

WASTES MANAGED: *Waste managed by the Former Sanitary Sump included mainly sewage.* It is unknown whether any hazardous chemicals were discharged to the system.

RELEASE CONTROLS: Wastewater was treated by a Hygi-Sept sanitary sewage disposal system before being discharged to the unit.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: No evidence of the unit was observed during the VSI.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is low since wastewater was pretreated before discharge to the unit, which was only operational for 2 years. The current potential is low since hazardous wastes are not presently managed by the unit.

Air - The potential for release to the atmosphere is low since the unit did not manage volatile waste.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit was operational for only 2 years and probably handled a very small volume of waste.

RECOMMENDATION: No further investigation.

AOC No. N4402/1 **Building 4402 Removed UST**

INFORMATION SUMMARY: Site File B-4400/4401/4402; Photo N-26; Document EAFB-D-97

LOCATION: The unit (Tank No. N010) was located west of Building 4402.

SIZE: A 1944 engineering drawing lists the tank capacity as 3,000 gallons. However, from at least 1968 until 1992 it was permitted as a 4,000-gallon tank. The UST was removed in September 1992.

PROBABLE WASTES: The concrete tank, which was apparently installed around the time of hangar construction in 1944, stored heating oil used in the building's boiler room. It was inactivated in 1990 and replaced by two 2,000-gallon, aboveground Convault units. The tank was removed in September 1992.

CONCERN: The concrete pad and surrounding soils were heavily stained, indicating a history of release. At the time of tank removal, five soil samples were obtained from beneath the tank, at depths of 9 feet to 13 feet below grade (1 foot to 4 feet below the tank bottom). Preliminary (not validated) analytical results are herein summarized. Diesel fuel was detected at concentrations ranging from 1,200 mg/kg to 8,900 mg/kg. Xylenes ranged from 0.93 mg/kg to 29 mg/kg and ethylbenzene ranged from <0.56 mg/kg to 6.1 mg/kg. Jet fuel, benzene, and toluene were not detected. Two soil samples were collected, at depths of 2 feet and 6 feet below grade, where the pipeline from the UST entered the boiler room in Building 4402. Diesel was detected at 570 mg/kg in the 2-foot sample and 4,000 mg/kg in the 6-foot sample. Xylenes were detected at 0.91 mg/kg in the 6-foot sample. Jet fuel, benzene, toluene, and ethylbenzene were not detected.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high, based on the visual evidence of heavily stained soils surrounding the concrete pad and the analytical results for soil samples collected at the time of tank removal. The current potential for release is low because the UST was removed in 1992.

Air - The potential for release to the atmosphere is low, since contamination is covered with clean backfill.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since heating oil is not likely to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (Site 238).

BUILDING 4410

Building 4410 is located at North Base, northwest of 1st Street and opposite Buildings 4401 and 4402. Constructed in 1970, Building 4410 was formerly used for liquid oxygen (LOX) storage. The building is constructed of concrete on three sides, with the northeast side open. The building's Drainage System (SWMU No. N4410/1) consists of three floor drains that run from the building's back (southwest) wall to the open northeastern side, where they discharge to a southeast-flowing drain that runs along the entire face of the building (SF B-4410/4412).

Since approximately 1988, the building and surrounding fenced yard have been used as an Accumulation Point (SWMU No. N4410/2) for temporary storage of unidentified and improperly labeled waste materials that have been picked up by the Base Hazardous Waste Manager from unauthorized accumulation points on base [the Drum Storage Area (SWMU No. M4919/2) at the Rock Hill Yard is one such unauthorized point]. Before drums are removed from the Building 4410 Accumulation Point, drum contents are tested at the Base Environmental and Analytical Laboratory (Building 4444) to determine hazardous constituents. After testing, the drums are labeled and transported to the base Hazardous Waste Storage Facility at Building 4916 (SF B-4410/4412).

The SWMUs associated with Building 4410 are shown on Figure 3-7 and described on the following page.

SWMU No. N4410/1 **Building 4410 Drainage System**

INFORMATION SUMMARY: Site File B-4410/4412

LOCATION: The Drainage System includes three floor drains inside Building 4410 that run from the southwest to northeast, and a drain just in front of Building 4410 that runs along the entire front side.

SIZE: The three floor drains are each 1 foot wide by approximately 16 feet long by approximately 6 inches deep. The front drain is approximately 40 feet long by 1 foot wide by 6 inches deep. The tops of the drains are flush with the floor of the building.

MATERIAL: The drains are constructed of concrete with a grate cover.

CONNECTIONS: The Drainage System discharges to a gravel lot southeast of the building.

PURPOSE: The Drainage System is used to collect rainwater which might enter through the open side of the building.

START UP: 1970. **DEACTIVATED:** Currently Active.

WASTES MANAGED: Wastes potentially discharged to the unit include spilled hazardous waste that is stored in Building 4410.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release to this unit.

VSI COMMENTS: No evidence of release was observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate, since spilled waste materials stored at the unit would discharge to grade.

Air - The potential for release to the atmosphere is low since the unit would only handle volatile waste in the event of a release.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradable organic wastes are probably not handled.

RECOMMENDATION: Further investigation. Sample (PRL 239).

SWMU No. N4410/2 Building 4410 Accumulation Point

INFORMATION SUMMARY: Site File B-4410/4412

LOCATION: The unit is located northwest of 1st Street, opposite Buildings 4401 and 4402.

SIZE: The 90-day unit is approximately 50 feet by 60 feet.

MATERIAL: The unit consists of Building 4410 and a chain-link fenced area, enclosing a concrete pad with approximate dimensions 30 feet by 40 feet. Building 4410 is a concrete shed, open on one side, with approximate dimensions 40 feet by 20 feet by 10 feet high. Gas tanks are stored in one corner of the building. Numerous drums are stored on pallets both inside the building and outside on the concrete pad. Open paint cans are stored on pallets on a grassy/gravel area just inside the fence.

CONNECTIONS: A Drainage System (SWMU No. N4410/1) includes a front drain that runs between Building 4410 and the concrete slab, discharging into a gravel lot to the southeast, outside the chain-link fence.

PURPOSE: The unit is used to store unidentified wastes picked up by the Base Hazardous Waste Manager at various unauthorized collection points on the base. Waste samples from the drums are tested at the Base Environmental and Analytical Laboratory (Building 4444) for hazardous characteristics. The drums are then labeled and transported to the base Hazardous Waste Storage Facility at Building 4916.

START UP: Estimated 1988. **DEACTIVATED:** Currently active.

WASTES MANAGED: At the time of the VSI in May 1991, the unit held approximately 50 drums total, all on pallets on the concrete pad. The contents in the drums were unidentified. Approximately 30 open paint cans were stored on pallets both on the pad and in a grassy area just inside the fenceline on the east.

RELEASE CONTROLS: Wastes are stored either inside a concrete shed or outside on pallets on top of a concrete pad; however, releases to the concrete pad could escape the containment via the Drainage System.

HISTORY OR EVIDENCE OF RELEASE: Based on the VSI, the unit has a history of volatile release to the atmosphere via open paint cans. No evidence of release to soils was observed. However, drainage from the unit discharges to grade.

VSI COMMENTS: No evidence of release to soils was observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate, since the unit is not bermed and drainage from the area discharges to grade.

Air - The potential for release to the atmosphere is high, since nearly empty paint cans are open to the atmosphere and allowed to dry via evaporation.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes are stored above ground in sealed drums.

RECOMMENDATION: Further investigation. Sample (PRL 239).

BUILDING 4412

Building 4412 is located at North Base, northeast of Building 4410. It was constructed in 1970 as an equipment repair facility, and is currently used by Computer Sciences Corporation (CSC) for storage. A 1988 audit reported that facility personnel indicated this building was used to store hazardous waste (SF B-4410/4412; Earth Technology, 1988).

No SWMUs or AOCs were identified at this facility.

BUILDING 4444

Building 4444 is located at North Base, north of 1st Street, opposite Building 4402. The building was constructed in 1968 as a communications laboratory for secret tests. It was renovated in the late 1980s, and since 1989 has been operational as the Base Environmental and Analytical Laboratory. It is operated by Computer Sciences Corporation (CSC) (SF B-4444).

The laboratory is designed to analyze wastewater and drinking water, asbestos and PCBs. Analytical methods include tests for RCRA wastes (pH, flashpoint, EP toxicity, leaching potential, heavy metals, VOCs (by EPA Method 601/602), toxic spots (TSCA wastes), and PCBs. Unidentified wastes stored at the Building 4410 Accumulation Point (SWMU No. N4410/2) are sampled and tested at Building 4444. The laboratory handles the following volume of analyses per year: approximately 300 analyses each for PCBs, wastewater, drinking water and asbestos; and approximately 50 analyses of unidentified materials. Acids generated in laboratory operations are neutralized and discharged down the sink to the sanitary sewer system. Methylene chloride is the predominant solvent used in the laboratory, and it is primarily consumed in operations. The laboratory does have a small attached shed which is used as a Satellite Accumulation Point (SWMU No. N4444/1) (SF B-4444).

The SWMU associated with this building is shown on Figure 3-7 and described on the following page.

SWMU No. N4444/1 **Building 4444 Satellite Accumulation Point**

INFORMATION SUMMARY: Site File B-4444

LOCATION: The unit is a shed attached to Building 4444.

SIZE: The unit is approximately 4 feet square by 10 feet high.

MATERIAL: The unit consists of a shed with a bermed, concrete floor containing two 5-gallon cans: one each for halogenated solvents and nonhalogenated wastes.

CONNECTIONS: None.

PURPOSE: The unit is used to store small volumes of hazardous wastes generated by the Base Environmental and Analytical Laboratory.

START UP: 1989. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages up to 5 gallons each of halogenated and nonhalogenated waste solvents.

RELEASE CONTROLS: Wastes are stored inside a bermed, concrete shed in closed 5-gallon cans.

HISTORY OR EVIDENCE OF RELEASE: No history of release is known for this unit.

VSI COMMENTS: No evidence of release was observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since the unit provides adequate containment.

Air - The potential for release to the atmosphere is low, since wastes are stored in closed 5-gallon containers.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes are stored above ground.

RECOMMENDATION: No further investigation.

BUILDING 4500

Building 4500 is the control tower for North Base. It is located approximately 200 feet east of the taxiway that separates Building 4505 from the other three hangars at North Base (Buildings 4305, 4401 and 4402). A small storage shed, Building 4501, is located approximately 20 feet north of Building 4500 (SF B-4500 to 4505).

The original control tower, constructed in 1944, was "an old guard shack perched atop some sawhorses" (EAFB-D-103). An "operations building," located adjacent to the original control tower, was designated Building 4502 in a 1957 design drawing renumbering the North Base facilities. The operations building was apparently demolished sometime between 1957 and 1967.

No SWMUs or AOCs were identified at Building 4500.

BUILDINGS 4503 AND 4504

Building 4503 is a 500,000-gallon water storage tank for fire protection. Building 4504 is the pump house for Building 4503. These facilities were constructed in 1951, and are located east of the northwest wing of Building 4505 (SF B-4500 to 4505).

No SWMUs or AOCs were identified at these facilities.

BUILDING 4505

Building 4505 is located north of the taxiway at North Base. The original hangar (Hangar T-58) was constructed before October 1946, and the warehouse (now a shop area) and northwest wing (originally a P.E. facility and shops; later an instrument laboratory) were added in the mid-1960s. The building was used by a variety of contractors in the 1940s and 1950s, among them North American during the B-45 project. In the early 1960s, the building was used for the U-2 program. During this period, photochemicals were reportedly discarded down the Dark Room Sink (SWMU No. N4505/1) (SF B-4500 to 4505).

The 6513th Test Squadron moved into Building 4505 in the early 1970s and today shares the building with an unidentified contractor. The facility is a high-security building, so no internal visual inspection was conducted. As far as could be determined, only two current SWMUs are located inside Building 4505: a Clean Line (SWMU No. N4505/2) in the warehouse shop area, and a Floor Drain (SWMU No. N4505/3) adjacent to the western hangar doors (SF B-4500 to 4505).

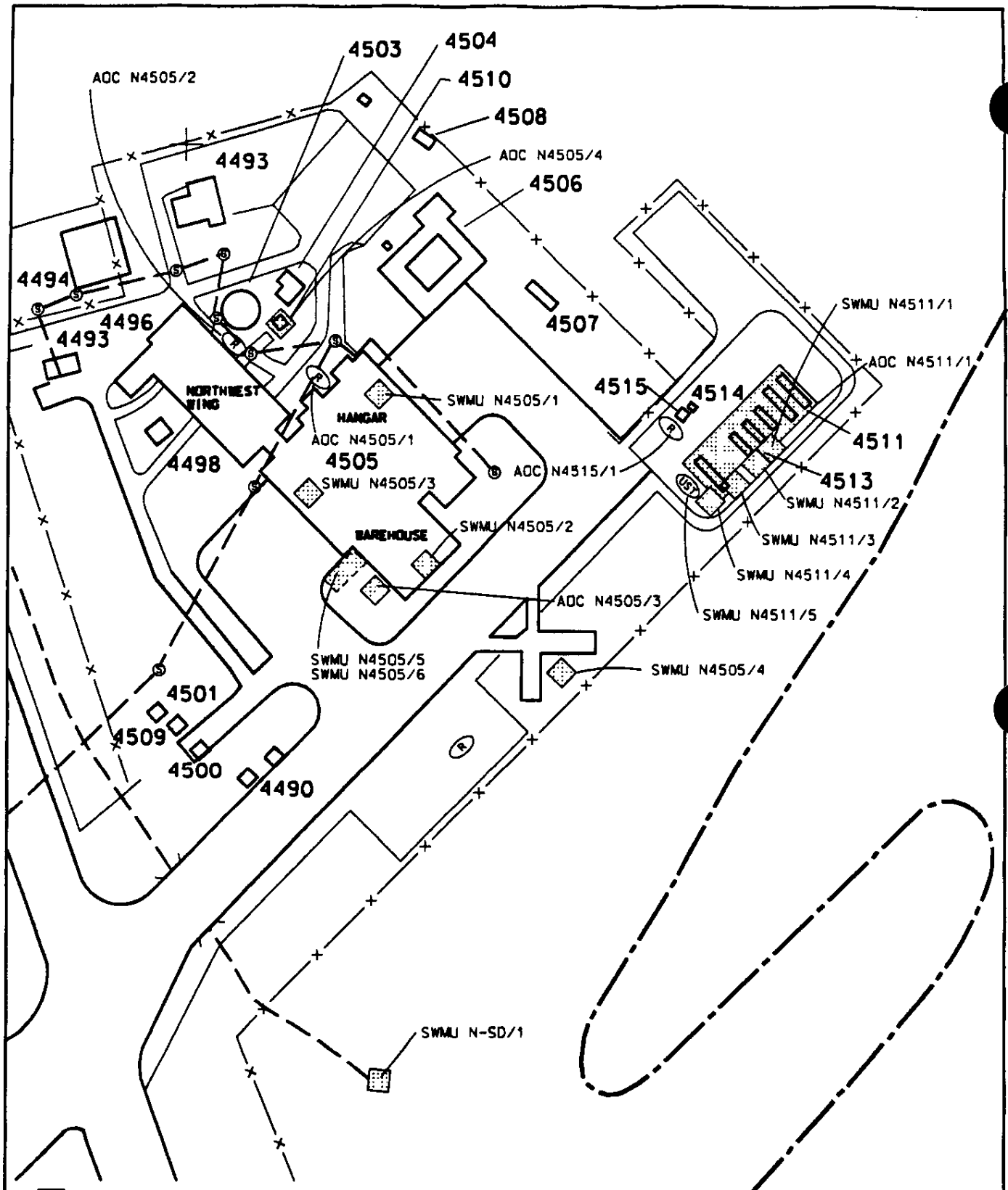
Building 4505 has three boilers, one for each distinct part of the building (hangar, former warehouse, northwest wing). The hangar has a boiler room, which was formerly fueled by a now Removed Hangar UST (AOC No. N4505/1). The northwest wing has a boiler room with a now Removed NW Wing UST (AOC No. N4505/2). The 3,000-gallon UST associated with the warehouse boiler room was emptied in 1990, when it was replaced by two 2,000-gallon Convault AGTs (Photo N-22). The warehouse UST was removed in August 1992. Soil samples were collected from 2 feet and 6 feet below the bottom of the tank (15 feet and 19 feet below grade). Neither diesel or jet fuel were detected above a detection limit of 11 mg/kg. BTEX were not detected above a detection limit of 0.0053 mg/kg (SF B-4500 to 4505; EAFB-D-97).

A hazardous waste Accumulation Point (SWMU No. N4505/4) is located approximately 200 feet southeast of Building 4505, south of the concrete apron. A crushed 55-gallon drum and debris were noted on the lakebed east of this unit (Photo N-25). A former gasoline station was located about 200 feet southeast of the southeastern corner of Building 4505. It consisted of a fueling pump and a 6,000-gallon UST (Tank No. N012). The pump was removed in 1968 and the UST was removed in August 1992. Soil samples were collected from 2 feet and 6 feet below the bottom of the UST at the time of tank removal. Neither diesel or jet fuel were detected above a detection limit of 11 mg/kg; BTEX were not detected above a detection level of 0.0053 mg/kg. The tank contained water at the time of removal (SF B-4500 to 4505; EAFB-D-97).

A Former Sump (SWMU No. N4505/5) that reportedly handled battery shop wastes is located on the southwest side of the hangar, near a Former Leach Field (SWMU No. N4505/6) where today the asphalt pavement is slightly depressed. An Air Compressor and Coolant Radiator (AOC No. N4505/3), used as part of the building's cooling system, sit on a wooden pallet on the western side of the warehouse portion of Building 4505. The surrounding ground is heavily stained. A Former Leaking Transformer Unit (AOC No. N4505/4), located on the northeastern

side of the building's NW wing (and identified as Building 4510), was drained in 1990 (SF B-4500 to 4505).

The SWMUs and AOCs associated with Building 4505 are shown in Figure 3-10 and discussed on the following pages.



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SWMU No. N4505/1 **Building 4505 Dark Room Sink**

INFORMATION SUMMARY: Site File B-4500 to 4505

LOCATION: The unit was located inside the dark room in the northeastern corner of the hangar portion of Building 4505.

SIZE: Unknown.

MATERIAL: Unknown.

CONNECTIONS: The unit drained to the sewer system.

PURPOSE: The Dark Room Sink was used to supply water for photograph development. Reportedly, photochemicals were discarded down the sink drain.

START UP: 1960s. **DEACTIVATED:** Early 1970s.

WASTES MANAGED: Reportedly, photochemical reagents including hypo and short-stop, possibly containing silver, were discarded down the Dark Room Sink.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: The Dark Room Sink was reportedly used to dispose of photochemical reagents during the period of the U-2 program at North Base, roughly 1960 to 1968.

VSI COMMENTS: Reportedly, the dark room lab was removed in the early 1970s. No VSI was conducted since the building is a high security facility.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the integrity of the sewer pipelines is unknown. The current potential for release is low, since the sink is reportedly no longer in place.

Air - The potential for release to the atmosphere is low, since the unit no longer handles hazardous waste.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate such gases were not discharged.

RECOMMENDATION: No further investigation. The unit is no longer extant.

SWMU No. N4505/2 **Building 4505 Clean Line**

INFORMATION SUMMARY: Site File B-4500 to 4505

LOCATION: The unit is located inside the former warehouse portion of Building 4505, in what is now a shop area.

SIZE: The Clean Line consists of three tanks, each approximately 4 feet by 4 feet by 4 feet.

MATERIAL: The tanks are constructed of metal.

CONNECTIONS: None; the units do not have drains.

PURPOSE: The Clean Line is used to degrease and descale aircraft parts and components.

START UP: Estimated 1970s. **DEACTIVATED:** Currently active.

WASTES MANAGED: The three tanks in the Clean Line hold 300 gallons potassium hydroxide, 470 gallons sodium hydroxide, and 470 gallons sodium hydroxide/permanganate, respectively. The chemicals are used as alkaline rust and scale removers and degreasers. Presumably rusts, oils and scale accumulate in the Clean Line tanks. Rinsewater from Clean Line operations is discharged through the sanitary sewer system. Periodically, spent chemicals from the Clean Line tanks are discharged into drums and disposed of as hazardous waste.

RELEASE CONTROLS: The units are indoors.

HISTORY OR EVIDENCE OF RELEASE: For the past 20 years, rinsewaters from Clean Line operations have been discharged into the sewer system.

VSI COMMENTS: No VSI was conducted since the building is a high-security facility.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the units are indoors.

Air - The potential for release to the atmosphere is low, since volatile chemicals are not used and the Clean Line is located indoors.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since only inorganic chemicals are used in the Clean Line.

RECOMMENDATION: No further investigation.

SWMU No. N4505/3 Building 4505 Floor Drain

INFORMATION SUMMARY: Site File B-4500 to 4505

LOCATION: The unit is located on the southwestern side of the hangar portion of Building 4505, adjacent to the hangar door.

SIZE: According to a 1966 as-built drawing, the unit is approximately 150 feet long by 18 inches wide by 3 feet deep. The top of the unit is flush with the floor of the hangar.

MATERIAL: The unit is constructed of concrete with a steel grate cover.

CONNECTIONS: The Floor Drain discharges to the sewer system.

PURPOSE: The Floor Drain is used to collect rainwater which might enter through the hangar door. In the past, it may have been used to collect spills of solvents and jet fuels used in aircraft development and maintenance.

START UP: 1966. **DEACTIVATED:** Currently active.

WASTES MANAGED: Wastes potentially discharged to the unit include solvents such as trichloroethene and jet fuels including JP-1.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: An unknown quantity of solvents, fuels and oils may have been released through the Floor Drain during the 1960s and 1970s.

VSI COMMENTS: No VSI was conducted since the unit is in a high-security facility.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the integrity of the unit is unknown. The current potential is low, because hazardous wastes are no longer discharged to the unit.

Air - The potential for release to the atmosphere is low, since the unit no longer handles hazardous waste.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate such gas were not discharged.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. N4505/4 **Building 4505 Accumulation Point**

INFORMATION SUMMARY: Site File B-4500 to 4505; Photo N-20

LOCATION: The 90-day unit is located approximately 200 feet southeast of Building 4505, across the concrete apron.

SIZE: The unit is approximately 60 feet by 80 feet.

MATERIAL: The unit consists of a concrete pad with an 18-inch lip. A three-bay ChemStor unit (approximate dimensions 40 feet long by 10 feet deep by 8 feet high) sits atop the pad. Several drums are stored on pallets outside the ChemStor unit.

CONNECTIONS: None.

PURPOSE: The unit is used to store hazardous wastes generated in Building 4505 until removal to the base Hazardous Waste Storage Facility at Building 4916.

START UP: 1989 or 1990. **DEACTIVATED:** Currently active.

WASTES MANAGED: At the time of the VSI in May 1991, the following wastes were observed: outside, eastern side of the ChemStor unit, three drums of waste lube oil were being stored on pallets, along with nine empty drums. Outside, western side of the ChemStor unit, six barrels were mounted on their sides, and contained waste JP-4 fuel, 1010 oil, 7808 oil, and waste engine oil. Wastes inside the ChemStor unit included oils, Stoddard solvent, Freon, lube oil, denatured alcohol, and TCTF ethane.

RELEASE CONTROLS: Wastes are stored either inside a ChemStor unit or outside on pallets on top of a concrete pad with a berm.

HISTORY OR EVIDENCE OF RELEASE: No releases are known to have occurred since the Accumulation Point was established in 1989. The concrete pad had been built earlier as an engine run-up pad.

VSI COMMENTS: The concrete pad was stained in places. Overall, the unit appeared clean and well maintained.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since the unit provides adequate containment.

Air - The potential for release to the atmosphere is low, since chemicals are stored in sealed drums and no evidence of release was noted.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation.

SWMU No. N4505/5 **Building 4505 Former Sump**

INFORMATION SUMMARY: Site File B-4500 to 4505

LOCATION: The unit is located outdoors on the southwestern side of the hangar portion of Building 4505.

SIZE: The Former Sump is visible as a raised concrete rectangle, approximately 4 feet by 2 feet.

MATERIAL: The Former Sump consists of a concrete vault that reportedly was filled in with concrete in 1989.

CONNECTIONS: The former battery shop reportedly had an inlet to the unit. It is not known where the unit discharged.

PURPOSE: Reportedly, battery acids were drained into the Former Sump.

START UP: Unknown. **DEACTIVATED:** 1989.

WASTES MANAGED: The unit was used to manage battery acids, possibly containing lead.

RELEASE CONTROLS: Unknown.

HISTORY OR EVIDENCE OF RELEASE: The history of release to this unit is unknown.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, because the integrity of the Former Sump during its years of active use is unknown. The current potential for release to soils and groundwater is low, since the unit no longer handles wastes.

Air - The potential for release to the atmosphere is low, since volatile wastes were not handled by the unit.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: Further investigation. Sample (PRL 240).

SWMU No. N4505/6 Building 4505 Former Leach Field

INFORMATION SUMMARY: Site File B-4500 to 4505; Photo N-24

LOCATION: The unit is located on the southwestern side of Building 4505, between the hangar and warehouse portions of the building.

SIZE: The area of depressed pavement which reportedly extends over the Former Leach Field consists of a portion approximately 3 feet wide by 10 feet long, extending lengthwise from the building into another portion approximately 9 feet wide by 4 feet long.

MATERIAL: The Former Leach Field consists of a depressed area of asphalt presumably overlying gravel.

CONNECTIONS: Unknown. The hangar Floor Drain (SWMU No. N4505/3) or Former Sump (SWMU No. N4505/5) may have discharged to the Former Leach Field.

PURPOSE: The unit was probably used to manage wastewater; however, the wastewater source is unknown.

START UP: Unknown. **DEACTIVATED:** Late 1960s.

WASTES MANAGED: The unit was possibly used to manage sanitary wastes or wastes which may have drained through the hangar Floor Drain or Former Sump.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: The history of release to this unit is unknown.

VSI COMMENTS: The perimeter of the depressed area is cracked, with plants growing through the cracks.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of its use are unknown. The current potential for release is low, because the unit no longer handles wastes.

Air - The potential for release to the atmosphere is low, since the unit no longer handles wastes.

Subsurface Gas - The potential for generation of subsurface gas (methane) is unknown, since it is unknown if sanitary wastes which could generate such gases were handled.

RECOMMENDATION: Further investigation. Sample (PRL 240).

AOC No. N4505/1 Building 4505 Removed Hangar UST

INFORMATION SUMMARY: Site File B-4500 to 4505; EAFB-D-97 and Documents EAFB-D-114; Photos N-16 and N-17

LOCATION: The unit (Tank No. N002) was formerly located on the northwestern side of the hangar portion of Building 4505.

SIZE: A 1944 engineering drawing listed the tank capacity at 6,000 gallons. However, it was permitted as a 3,000-gallon capacity tank, and was reported at 5,000 gallons following a tank integrity test in September 1990.

PROBABLE WASTES: The unit stored diesel fuel used in the hangar boiler room.

CONCERN: The unit was installed in 1944 and removed in 1993. It passed a tank integrity test in September 1990; however, the concrete pad and surrounding soils were observed to be heavily stained, indicating a history of release. At the time of tank removal, soil samples were collected from 2 feet to 6 feet beneath the tank and associated piping (3 feet to 12 feet below grade). Samples were analyzed for LUFT diesel and jet fuel fractions and BTEX (EPA Method 8020). Diesel fuel was detected in every sample and ranged from 160 mg/kg to 9,600 mg/kg; jet fuel was not detected. Ethylbenzene and total xylenes were detected at maximum concentrations of 4.0 mg/kg and 19 mg/kg, respectively.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high, based on the analytical results from soil samples taken at the time of removal and the visual evidence of heavily stained soils surrounding the concrete pad. The current potential for release is low because the UST has been removed.

Air - The potential for release to the atmosphere is low since the unit was removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since heating fuel is not expected to degrade to a significant extent to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 241).

AOC No. N4505/2 **Building 4505 Removed NW Wing UST**

INFORMATION SUMMARY: Site File B-4500 to 4505; Documents EAFB-D-97 and EAFB-D-114

LOCATION: The unit (Tank No. N001) was located on the eastern side of the northwest wing of Building 4505.

SIZE: According to a 1968 as-built drawing, the unit was a 5,000-gallon steel UST.

PROBABLE WASTES: The unit stored diesel fuel used in the boiler for the building's NW Wing.

CONCERN: The unit was installed in 1968 and removed in 1993. The tank passed a leak integrity test in September 1990; however, it was tested as a 5,000-gallon capacity tank rather than a 3,000-gallon capacity tank. The ground surface surrounding the UST was heavily stained, and saturated on top of the tank. Soil samples were taken from 0 foot to 4 feet below the tank (8 feet to 12 feet below grade at the time of tank removal and analyzed for LUFT diesel and jet fuel fractions and for BTEX (EPA Method 8020). Diesel Fuel was detected at 8,800 mg/kg 8 feet below grade but was not detected in the 12-foot samples. Jet fuel and BTEX were not detected in any samples.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high, since diesel fuel was detected at 8,800 mg/kg. The current potential is low since the tank was removed. Based on visual observations of heavily stained soils above and surrounding the unit.

Air - The potential for release to the atmosphere is low since the tank has been removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since diesel fuel is not expected to degrade to a significant extent to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 241).

AOC No. N4505/3 **Building 4505 Air Compressor and Coolant Radiator**

INFORMATION SUMMARY: Site File B-4500 to 4505; Photo N-23

LOCATION: The Air Compressor and Coolant Radiator are located on the western side of the warehouse portion of Building 4505.

SIZE: The units are mounted on a wooden pallet that measures approximately 12 feet long by 4 feet wide.

PROBABLE WASTES: At the time of the VSI in May 1991, the units appeared to be leaking oils and possibly ethylene glycol onto the ground surface.

CONCERN: The Air Compressor and Coolant Radiator are part of the building's cooling system. The units are located on a wooden pallet up against the side of the building. The pallet and surrounding pavement are heavily stained. Reportedly, the radiator leaked ethylene glycol in early 1991. The pavement surrounding the units is heavily stained a medium brown color.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate, since surface spills of oils and/or ethylene glycol may be rinsed through cracks in the pavement to the soil below.

Air - The potential for release to the atmosphere is low since the wastes released are not very volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gas are not handled.

RECOMMENDATION: Further investigation. Sample (PRL 240).

AOC No. N4505/4 **Building 4505 Former Leaking Transformer Unit**

INFORMATION SUMMARY: Site File B-4500 to 4505; Earth Technology (1988)

LOCATION: The unit was located on the northeastern side of the building's northwest wing, and identified as Building 4510.

SIZE: The unit consisted of an abandoned transformer unit.

PROBABLE WASTES: In a 1988 audit, the transformer unit was observed to have leaked oils, possibly containing PCBs.

CONCERN: The transformer unit was observed to be leaking during a 1988 audit. No PCB label was present. According to BEE files, the transformer oil was tested and found to have a PCB concentration of 29,000 ppm. Reportedly, oil that had spilled from the unit reached the storm drain. Twenty-five soil samples were taken and analyzed for PCB content; the highest concentration found was 16 ppm. The unit was drained in 1990.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater was moderate, based on a 1988 observation that the unit was leaking. The current potential for release is low because the unit has been drained.

Air - The potential for release to the atmosphere is low, because the wastes released are not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of transformer oils is not likely to generate significant quantities of methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 242).

BUILDING 4507

Building 4507, located at North Base northeast of Building 4505, is a storage locker used by the 6513th Test Squadron (Photo N-18). At the time of the VSI in May 1991, the following product materials were observed: oil, gas-path cleaner, and hydraulic fluids. The materials are stored in 55-gallon drums on pallets, or in 10-gallon pails on the concrete floor of the shed (SF B-4507/4511/4515).

There are no SWMUs or AOCs associated with this facility.

BUILDING 4511

Building 4511 is a fuel tank farm at North Base, east of Building 4505. The Tank Farm (AOC No. N4511/1) consists of six AGTs holding JP-8 fuel. Fuels are loaded and unloaded into the tanks via fuel trucks. The JP-8 fuel is trucked from the tank farm to South Base for use in the B-2 bomber (SF B-4507/4511/4515).

The tank farm dates from 1962, when three 15,000-gallon tanks (Tanks 1, 2, and 3) and a pump stand with a Filter Separator (SWMU No. N4511/1) were installed. The tanks probably held JP-1 or JP-4 fuel when first installed. Around 1966, the Tank Farm was renovated, and two 25,000-gallon tanks (Tanks 4 and 5) were added. Sometime between 1968 and 1981, another 25,000-gallon tank (Tank 6) was installed southwest of Tanks 1, 2 and 3. The Tank Farm underwent additional renovations in 1988, when its floor was graded to slope toward one of three Floor Drains (SWMU No. N4511/2) that discharge to a Pit and Sump (SWMU No. N4511/3) through an Oil/Water Separator (SWMU No. N4511/4). Fuel products collected in the Oil/Water Separator are discharged to an Underground Fuel Recovery Tank (SWMU No. N4511/5) (SF B-4507/4511/4515).

The SWMUs associated with Building 4511 are shown in Figure 3-10 and described on the following pages.

SWMU No. N4511/1 **Building 4511 Filter Separator**

INFORMATION SUMMARY: Site File B-4507/4511/4515

LOCATION: The unit is located at North Base, on the pump stand southwest of the Tank Farm (AOC No. N4511/1).

SIZE: The unit is approximately 4 feet tall.

MATERIAL: The unit is constructed of metal.

CONNECTIONS: Two pumps are located on the pump stand in addition to the Filter Separator. The first pumps fuel from unloading trucks through the Filter Separator and into inlet pipes for each tank. The second pumps fuel from the tank outlets, through the Filter Separator and to the dispenser hose.

PURPOSE: The purpose of the Filter Separator is to remove particulate impurities and water from the fuel before it goes into the tanks, or into mobile fueling vehicles used to fuel aircraft.

START UP: 1962. **DEACTIVATED:** Currently active.

WASTES MANAGED: The Filter Separator handles particulate impurities and water. The filter element is replaced every 2 years to 3 years.

RELEASE CONTROLS: The unit sits on a concrete pad.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release associated with this unit.

VSI COMMENTS: The unit looked clean and well maintained.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since the unit is adequately contained.

Air - The potential for release to the atmosphere is low, since the unit is enclosed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate such gas are not handled.

RECOMMENDATION: No further investigation.

SWMU No. N4511/2 Building 4511 Floor Drains

INFORMATION SUMMARY: Site File B-4507/4511/4515

LOCATION: The units originate inside the concrete dike that houses the Tank Farm (AOC No. N4511/1) at North Base.

SIZE: The Floor Drains measure approximately 1 foot wide and 1 foot deep.

MATERIAL: The units are concrete troughs, which drain into a 6-inch-diameter metal pipe. The pipe is fitted with a sheet metal sleeve where it penetrates the concrete dike.

CONNECTIONS: The Floor Drains run from low points in the Tank Farm outside to the diked area on the southwest, where they discharge to a 6-inch-diameter drain line that runs southwest to the Pit and Sump (SWMU No. N4511/3).

PURPOSE: The Floor Drains are used to collect rainwater and any fluid that collects on the floor of the Tank Farm.

START UP: 1988. **DEACTIVATED:** Currently active.

WASTES MANAGED: Wastes potentially discharged to the unit include spilled JP-8 fuel.

RELEASE CONTROLS: The pipes are made of metal and discharge to a valve pit and sump.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release associated with this unit.

VSI COMMENTS: The Floor Drains were not stained.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, because the units are of recent construction.

Air - The potential for release to the atmosphere is low, since the units are fully enclosed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation.

SWMU No. N4511/3 Building 4511 Pit and Sump

INFORMATION SUMMARY: Site File B-4507/4511/4515

LOCATION: The units are located at the southwestern corner of the Tank Farm (AOC No. N4511/1) at North Base.

SIZE: The Pit and Sump are approximately 10 feet by 7 feet, with an unknown depth.

MATERIAL: The units are constructed of concrete, with a metal cover.

CONNECTIONS: The 6-inch drain pipe from the Tank Farm discharges to the Pit and Sump, which regulate the flow of wastewater into the Oil/Water Separator (SWMU No. N4511/4).

PURPOSE: The purpose of the units is to regulate the entry of wastewater to the Oil/Water Separator.

START UP: 1988. **DEACTIVATED:** Currently active.

WASTES MANAGED: Wastes potentially discharged to the units include spilled JP-8 fuel.
RELEASE CONTROLS: None, other than the primary containment.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release associated with these units.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, because the units are of recent construction.

Air - The potential for release to the atmosphere is low, since the units are fully enclosed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation.

SWMU No. N4511/4 Building 4511 Oil/Water Separator

INFORMATION SUMMARY: Site File B-4507/4511/4515

LOCATION: The unit is located at the southwestern corner of the Tank Farm (AOC No. N4511/1) at North Base.

SIZE: The unit is approximately 5 feet by 9 feet, with an unknown depth.

MATERIAL: The unit is constructed of concrete.

CONNECTIONS: Wastewater is discharged to the unit from the Pit and Sump (SWMU No. N4511/3). Fuel is discharged from the unit to the Underground Fuel Recovery Tank (SWMU No. N4511/5) and water is discharged to the sanitary sewer system.

PURPOSE: The purpose of the unit is to separate fuel and water drained into the system; fuel is discharged to the Underground Fuel Recovery Tank and water is discharged to the sanitary sewer system.

START UP: 1988. **DEACTIVATED:** Currently active.

WASTES MANAGED: Wastes potentially discharged to the unit include spilled JP-8 fuel.

RELEASE CONTROLS: None, other than the primary containment.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release associated with this unit, which has a Kern County Air Pollution Control District Permit to Operate.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, because the unit is of recent construction.

Air - The potential for release to the atmosphere is low, since the unit is fully enclosed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation.

SWMU No. N4511/5 **Building 4511 Underground Fuel Recovery Tank**

INFORMATION SUMMARY: Site File B-4507/4511/4515

LOCATION: The unit (Tank No. N013) is located at the southern end of the Tank Farm (AOC No. N4511/1) at North Base.

SIZE: The unit is 6 feet in diameter by 20 feet long, and has a 4,000-gallon capacity.

MATERIAL: The unit is constructed of Fiberglas.

CONNECTIONS: Fuel is discharged to the unit from the Oil/Water Separator (SWMU No. N4511/4).

PURPOSE: The purpose of the unit is to collect waste fuel separated out by the Oil/Water Separator.

START UP: 1988. **DEACTIVATED:** Unknown

WASTES MANAGED: Wastes potentially discharged to the unit include spilled JP-8 fuel.

RELEASE CONTROLS: None, other than the primary containment.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release associated with this unit, which has a Kern County Air Pollution Control District Permit to Operate.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the unit is of recent construction.

Air - The potential for release to the atmosphere is low, since the unit is fully enclosed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation.

AOC No. N4511/1 **Building 4511 Tank Farm**

INFORMATION SUMMARY: Site File B-4507/4511/4515; Photo N-19

LOCATION: The unit is located at North Base, east of Building 4505.

SIZE: The diked area, constructed of reinforced concrete and containing six tanks, is approximately 200 feet long by 67 feet wide, with an approximately 2-foot berm that slopes downward to the outside. Three tanks (Tanks 1, 2, and 3) have a 15,000-gallon capacity; the other three (Tanks 4, 5, and 6) have a 25,000-gallon capacity. The tanks sit on reinforced concrete cradles, and are constructed of welded steel.

PROBABLE WASTES: The Tank Farm handles product jet fuel.

CONCERN: The Tank Farm dates from 1962 and currently supplies JP-8 fuel to the B-2 bomber program at South Base. Historically, the Tank Farm was used to supply jet fuels to jet planes tested at North Base. Prior to modifications made in 1988, the unit had earthen berms. Releases could have impacted the surrounding ground.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the integrity of the earthen berms that were replaced by reinforced concrete in 1988 is unknown. The current potential for release to soils and groundwater is low, since the unit has adequate containment, and appears clean and well maintained.

Air - The potential for release to the atmosphere is low, since fuels are stored in closed tanks.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the fuel stored does not degrade to methane.

RECOMMENDATION: Further investigation. Sample (PRL 243).

BUILDING 4515

Building 4515 is a small structure located west of and near the Tank Farm (SWMU No. N4511/1) at North Base. It was constructed in 1967 as a fuels test laboratory, and is currently operated by the 6513th Test Squadron. No internal VSI was conducted. Formerly, a hand pump and vent pipe, were located outside Building 4515 on the west side, indicating the location of a now Removed UST (AOC No. N4515/1) (SF B-4507/4511/4515).

The AOC associated with Building 4515 is shown in Figure 3-10 and described on the following page.

AOC No. N4515/1 Building 4515 Removed UST

INFORMATION SUMMARY: Site File B-4507/4511/4515; Document EAFB-D-97; Photo N-30

LOCATION: The unit (Tank No. N022) was located northwest of the Tank Farm (AOC No. N4511/1) and south of Building 4515.

SIZE: The tank capacity was estimated at 300 gallons.

PROBABLE WASTES: The contents of the Removed UST are listed as waste solvents.

CONCERN: A hand pump and vent pipe, each approximately 3 feet above the ground surface, were formerly located south of Building 4515, indicating the location of the now Removed UST. No as-built drawings for this unit could be located. The tank was removed in 1993. At the time of tank removal, two soil samples were collected from beneath the UST, at depths of 6 feet and 8 feet below grade, and analyzed for LUFT diesel, jet fuel and gasoline fractions; oil and grease; total organic lead; BTEX (EPA Method 8020); and halogenated VOCs (EPA Method 8010). No contaminants were detected.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since analytical results for soil samples collected at the time of tank removal were nondetect.

Air - The potential for release to the atmosphere is low, since the tank has been removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes that might generate such gases were not handled.

RECOMMENDATION: No further investigation.

OLD NORTH BASE

The old North Base consists of facilities constructed as part of the original Muroc Flight Test Base in the early 1940s, which have since been abandoned and/or demolished. Most of the structures were support and housing buildings (now identifiable only by concrete foundations and pads). The area is bounded on the southeast by the concrete apron adjacent to Buildings 4305, 4401, and 4402, on the northwest by 4th Street, on the northeast by the main taxiway leading to the North Base runway, and on the southwest by the intersection of E Street and North Base Road. The Test Base was rapidly built up between 1942 and 1945, when it included several barracks and officers' quarters. After the 412th Air Squadron moved from North Base to South Base in 1946, some of the original support buildings were converted to office space in the early 1950s. As Test Base operations were reduced in the 1960s, a smaller support staff was needed and many of the facilities were demolished (SF B-ONB; EAFB-D-85).

Very few details of hazardous waste and materials management are known. No records other than maps, engineering plans, and aerial photographs have been identified. Therefore, areas with the potential for the management of such materials were identified from maps, plans, and interviews with long-time employees. Since so little is known about these facilities, they are identified as AOCs (SF B-ONB; EAFB-D-85).

Six AOCs were identified from as-built drawings as having the potential for generation of hazardous waste: a Former Special Fuels Storage (AOC No. N-ON/1) area; Former Motor Repair Shop (AOC No. N-ON/2); Former Utility Shops 1 and 2 (AOC Nos. N-ON/3 and 4); Former Inflammable Storage Shed (AOC No. N-ON/5); and Former Fire Station (AOC No. N-ON/6). A Potential Former Garage (AOC No. N-ON/7) was identified based on visual observations. One long-time employee recalled a large Equipment Burial Pit (AOC No. N-ON/8) in which many early engines and possibly whole aircraft were buried between 1942 and 1944.

Table 3-3 lists 15 USTS (AOC Nos. N-UST/1 to N-UST/15) that were identified from as-built drawings of Old North Base buildings and during the VSI. Eight of these USTs (AOC Nos. N-UST/2, 4, 5, 9 to 11, 14 and 15) were field-verified; the rest could not be located.

The AOCs associated with the old North Base area are shown in Figures 3-7, 3-8, 3-10, 3-11, and 3-12, and are described on the following pages.

TABLE 3-3. *OLD NORTH BASE USTs*
(Page 1 of 3)

AOC	LOCATION	PERTINENT DATA	INSTALLATION DETAILS	COMMENTS
N-UST/1 (Tank No. N055) (Figure 3-11) (PRL 249)	North of the intersection of C St. and 2nd St., approximately 300 feet north of existing Building 4318.	Capacity: 5,000 gal. Year Installed: 1944 Contents: gasoline (Mogas) Building Function: Gasoline Station File/Drawing Reference #: 1003/91	Dimensions of UST 6 feet wide and 24 feet long. Placed with long axis horizontal.	Aboveground hand pump located inside a 4- by 4-foot shed. Formerly identified as Building 4354. VSI found no sign of tank. The shed and hand pump have been removed. Aerial photographs indicate the area to be unpaved. Tank deactivated prior to 1967.
N-UST/2 (Tank No. N054) (Figure 3-11) (PRL 250)	West of the intersection of B St. and 2nd St., approximately 250 feet northeast of current building 4318.	Capacity: 12,000 gal. Year Installed: 1944 Contents: gasoline Building Function: Aircraft fuel storage File/Drawing Reference #: 975/32 & 975/33	Dimensions of UST 8 feet wide and 32 feet long. Placed with long axis horizontal, and 5 feet below ground surface.	VSI identified the tank and associated fill pump. Aerial photographs indicate the unit to be in an unpaved area. It was inactivated before 1967.
N-UST/3 (Tank No. N058) (Figure 3-11) (PRL 251)	Between A St. and B St., 50 feet north of 3rd St.	Capacity: 1,500 gal. Year Installed: 1944 Contents: heating oil Building Function: Mess Hall File/Drawing Reference #: 1003/91	Unknown	Actual location of UST unknown. VSI identified building foundation, including rubble from brick stack on northeastern corner, which is the probable location of the tank.
N-UST/4 (Tank No. N059) (Figure 3-11) (PRL 252)	Between A St. and B St., approximately 342 feet northwest of 3rd St. and 160 feet northeast of B St.	Capacity: 300 gal. Year Installed: 1944 Contents: heating oil Building Function: Lavatory File/Drawing Reference #: 1003/91	Vertically oriented cylinder measuring 4.5 feet in diameter.	VSI identified the concrete foundation for the lavatory. The tank was partially intact, but filled with soil. Lavatory demolished between 1957 and 1967, based on as-built drawings and aerial photographs.
N-UST/5 (Tank No. N060) (Figure 3-11) (PRL 252)	Between A St. and B St., approximately 242 feet northwest of 3rd St. and 157 feet southwest of A St.	Capacity: 300 gal. Year Installed: 1944 Contents: heating oil Building Function: Lavatory File/Drawing Reference #: 1003/91	Vertically oriented cylinder measuring 5 feet 2 inches in diameter and 4.5 feet deep.	VSI identified the tank intact. Lavatory demolished between 1957 and 1967, based on as-built drawings and aerial photographs.

TABLE 3-3. OLD NORTH BASE USTs
(Page 2 of 3)

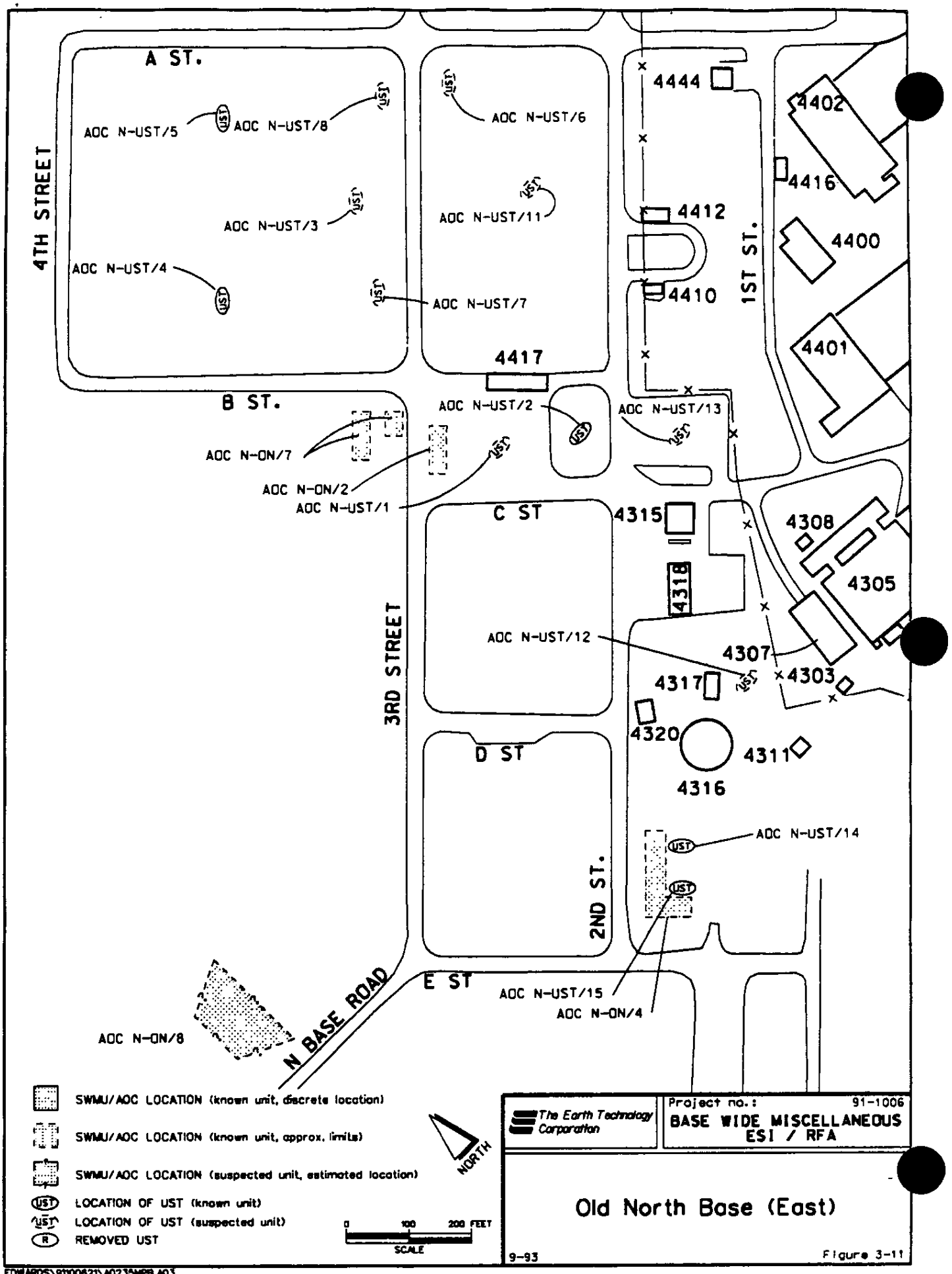
AOC	LOCATION	PERTINENT DATA	INSTALLATION DETAILS	COMMENTS
N-UST/6 (Tank No. N057) (Figure 3-11) (PRL 253)	Southwest of the intersection of 3rd St. and A St.	Capacity: 300 gal. Year Installed: 1944 Contents: heating oil Building Function: Infirmary File/Drawing Reference #: 1003/91	Unknown	VSI identified the concrete foundation associated with the infirmary. The tank was not located during VSI. Infirmary demolished between 1957 and 1967 based on as-built drawings and aerial photographs. Brick rubble from chimney associated with UST identified on a 1950s aerial photograph at the southeastern corner of the former infirmary building.
N-UST/7 (Tank No. N062) N-UST/8 (Tank No. N063) (Figure 3-11) (PRL 251)	25 feet north of 3rd St. between A St. and B St.	Capacity: 2-1,500 gal. Year Installed: 1944 Contents: heating oil Building Function: Field Distribution system File/Drawing Reference #: 1003/91	The units were equipped with hand pumps. Tank dimensions unknown.	Neither tanks nor hand pumps were identified during VSI. Piping was observed in vicinity.
N-UST/9 (Tank No. N003) N-UST/10 (Tank No. N004) (Figure 3-12; Photo N-34) (PRL 254)	1,200 feet west of North Base, on North Base Road. Tanks located southwest side of Buildings 4390 and 4391.	Capacity: 1,000 gal. Year Installed: 1947 Contents: fuel oil Building Function: Officers Quarters File/Drawing Reference #: 1072/28	Dimensions 6 feet diameter and 6 feet deep.	VSI identified both tanks to be intact. Staining and odor observed around the eastern tank (N-UST/10, associated with former Building 4390).
N-UST/11 (Tank No. N064) (Figure 3-11) (PRL 253)	118 feet northwest of 2nd St. and 227 feet southwest of A St.	Capacity: unknown Year Installed: 1943-1944 Contents: heating oil Building Function: mess hall, lavatory or barracks File/Drawing Reference #: none available	Dimensions 5 feet diameter, 2 feet 6 inches above grade and 4-5 feet deep	VSI identified tank intact and partially filled with debris. Aerial photographs indicate buildings demolished by 1967. Eastern barracks demolished by 1957. Only the concrete foundation of the mess hall currently exists.

TABLE 3-3. OLD NORTH BASE USTs
(Page 3 of 3)

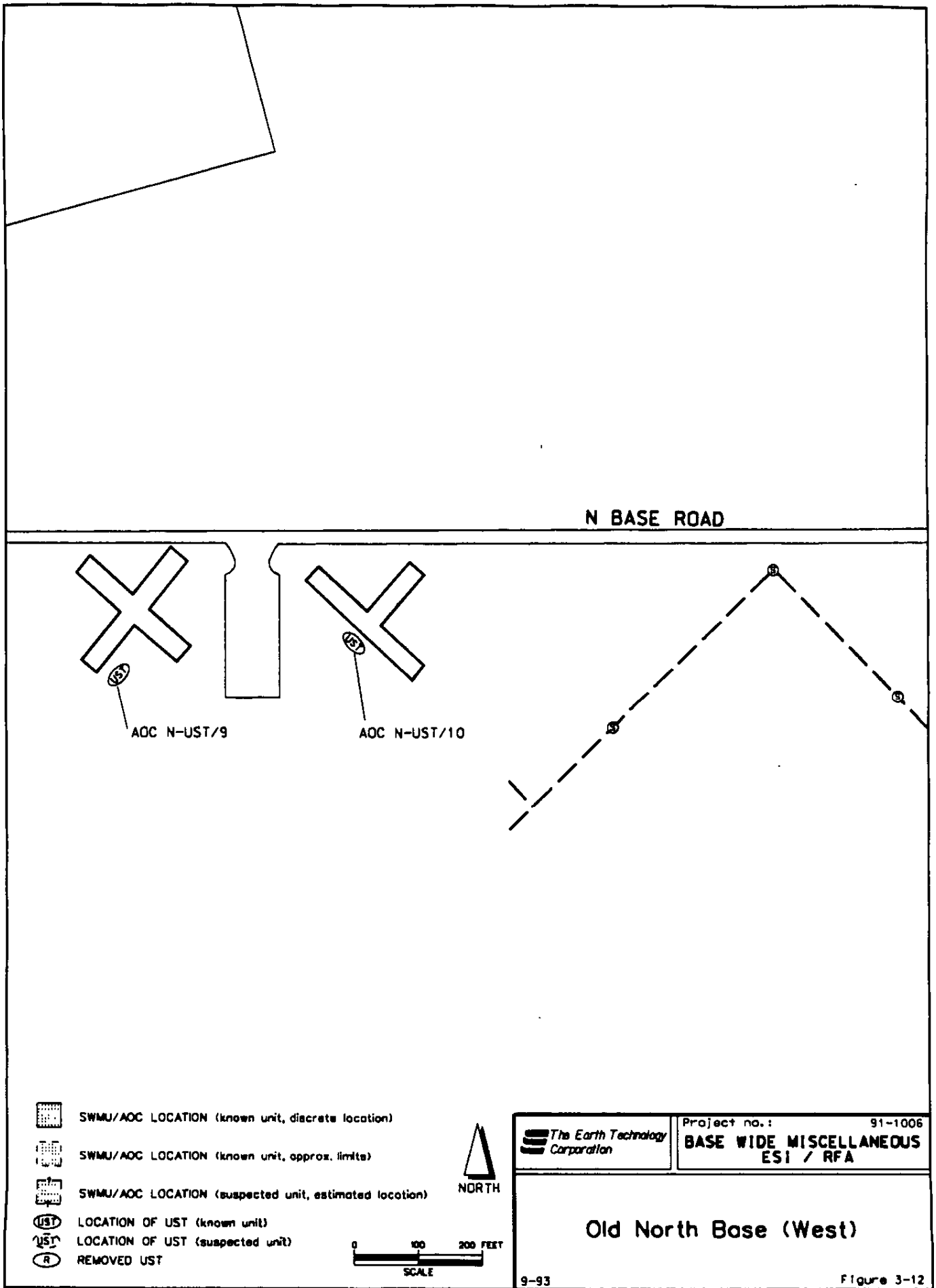
AOC	LOCATION	PERTINENT DATA	INSTALLATION DETAILS	COMMENTS
N-UST/12 (Tank No. N053) (Figure 3-11) (PRL 255)	Approx. 10 feet southeast of Building 4317	Capacity: 500 gal. Year Installed: 1944 Contents: Gasoline Building Function: Pump House #3 File/Drawing Reference#: 500/14	Dimensions unknown Axis of tank horizontal	VSI identified a depression southeast of Building 4317 which may indicate the tank location.
N-UST/13 (Tank No. N056) (Figure 3-11)	220 feet west of Building 4401, east of C Street and south of 2nd Street	Capacity: Unknown Year Installed: 1945 Contents: Product oil Building Function: Hangar File/Drawing Reference #: 25-900/133	1-5 feet aboveground elevation to unknown depth below ground. Tank was a vertically oriented cylinder, 7 feet in diameter.	In 1967, the tank was drained and the top 3.5 feet of the tank were removed. The remainder of the tank was filled with sand and abandoned in place.
N-UST/14 (Tank No. N052) (Figure 3-11) (PRL 246)	Southwest of Building 4316. 60 feet south of 2nd Street	Capacity: 300 gal. Year Installed: 1947 Contents: Heating oil Building Function: Utility Shop and Yard File/Drawing Reference #: 500/3	Concrete tank with vertical axis. 5.2 feet diameter.	VSI identified tank intact and partially filled with water, with a faint smell of hydrocarbons. Depth measured was approx. 3 feet 10 inches.
N-UST/15 (Tank No. N051) (Figure 3-11) (PRL 246)	Approx. 140 feet southwest of AOC N-UST/14	Capacity: 500 gal. Year Installed: 1947 Contents: Heating oil Building Function: Utility Shop and Yard File/Drawing Reference #: 500/3	Concrete tank with vertical axis. 7.2 feet diameter.	VSI identified tank intact, filled with soil, with the broken lid off to the side.

UST - Underground Storage Tank
VSI - Visual Site Inspection

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The Earth Technology Corporation

Project no.: 91-1006

BASE WIDE MISCELLANEOUS ESI / RFA

Old North Base (West)

9-93

Figure 3-12

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AOC No. N-ON/1 Old North Base Former Special Fuels Storage

INFORMATION SUMMARY: Site File B-ONB

LOCATION: The Former Special Fuels Storage area was located south of the main entrance road to North Base, approximately 110 feet west of the Sludge Drying Beds (SWMU No. N4331/3) (Figure 3-8).

SIZE: According to engineering drawings dated 1944, the unit consisted of two wooden structures: a shelter measuring approximately 30 feet by 24 feet by 14 feet high that housed four horizontal AGTs, each with a capacity of approximately 3,000 gallons; and a shelter measuring approximately 32 feet by 12 feet by 22 feet high that housed two vertical AGTs, each with a capacity of approximately 8,000 gallons. Each shelter had an associated pump house.

PROBABLE WASTES: Unknown, but the unit may have stored product jet fuel (JP-1). The four horizontal tanks (Type NA) apparently stored fuel used at Buildings 4401 and/or 4402 (Type NA hangars). It is unknown what facility the vertical tanks (Type AN) served.

CONCERN: The Special Fuels Storage area consisted of four AGTs possibly storing jet fuel, and two AGTs with unknown contents. It was constructed around 1946 and removed before 1950. The area was equipped with both rail and truck loading facilities, and two pump houses. Spills may have occurred during loading/unloading of fuels.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soil and groundwater is unknown since the integrity of the tanks and past waste management practices are unknown. The current potential for release to soil and groundwater is low since the unit has been deactivated for over 40 years.

Air - The potential for release to the atmosphere is low since the unit is inactive.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since wastes which might generate such gases were probably not handled.

RECOMMENDATION: No further investigation. The unit was operational for 5 years or less and included only AGTs.

AOC No. N-ON/2 Old North Base Former Motor Repair Shop

INFORMATION SUMMARY: Site File B-ONB

LOCATION: The unit was located south of the intersection of 3rd and B streets, approximately 400 feet north of the current Building 4318 (Figure 3-11). A 1957 design plan renumbering the North Base facilities listed the unit as Building 4355.

SIZE: As-built drawings dated 1944 indicate the building had a floor space measuring 32 feet by 88 feet.

PROBABLE WASTES: The unit probably managed waste oils, fuels, and solvents.

CONCERN: The shop was constructed in 1943 or 1944 and was active until the early 1960s. Details of waste management practices are unknown, but based on known past practices at other facilities, may have included disposal on the bare ground. The building foundation pad was observed during the VSI. No staining was observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of waste management practices are unknown. The current potential is low since the unit is no longer active.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which would generate such gases were probably not handled.

RECOMMENDATION: Further investigation. Sample (PRL 245).

AOC No. N-ON/3 Old North Base Former Utility Shop 1

INFORMATION SUMMARY: Site File B-ONB

LOCATION: The unit was located approximately 30 feet west of Building 4305, in the approximate location of the current Building 4307 (Figure 3-7).

SIZE: As-built drawings dated 1944 indicate the building had a floor space measuring 20 feet by 96 feet.

PROBABLE WASTES: The unit may have handled waste POL, solvents, and paints.

CONCERN: The shop was constructed in 1943 or 1944, but was probably replaced by the Former Utility Shop 2 (AOC No. N-ON/4) in 1947. Details of waste management practices are unknown, but based on known past practices at other facilities, may have included disposal on the bare ground.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown; however, the shop was probably operational less than 5 years. The current potential is low since the unit is no longer active.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which would generate such gases were probably not handled.

RECOMMENDATION: No further investigation. The unit was operational for 5 years or less and is the site of current Building 4307.

AOC No. N-ON/4 Old North Base Former Utility Shop 2

INFORMATION SUMMARY: Site File B-ONB

LOCATION: The Former Utility Shop and yard were located east of the intersection of 2nd and E streets, southwest of the water storage tank at Building 4316 (Figure 3-11). A 1957 design plan renumbering North Base facilities listed the unit as Building 4315. The unit included a 300-gallon UST (AOC No. N-UST/14) located on the far northeast side of the L-shaped building about 60 feet south of 2nd Street, and a 500-gallon UST (AOC No. N-UST/15) located about 140 feet southwest of the first tank.

SIZE: As-built drawings dated 1947 indicate the building had a floor space of approximately 6,500 square feet. During the VSI, two vertically oriented, cylindrical concrete tanks were located. Their approximate dimensions were 5.2 feet in diameter (300-gallon tank) and 7.2 feet in diameter (500 gallon tank).

PROBABLE WASTES: The unit may have handled waste POL, solvents, and paints. The two USTs contained heating oil.

CONCERN: According to 1947 as-built drawings, the facility contained the following shops: paint, carpenter, sheet metal, blacksmith, electric and plumbing. A heating room and boiler stack associated with the 500-gallon heating oil tank were located between the paint and carpenter shops, and a second heating room was located east of the plumbing shop. The other shops had console heaters. Based on an aerial photo, the building was still extant in 1967. At the time of the VSI, the 500-gallon tank was observed to be filled with soil, with the broken lid off to the side. The 300-gallon tank was intact and partially filled with water, with a faint smell of hydrocarbons. Depth of the 300-gallon tank was approximately 3 feet 10 inches.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of waste management practices are unknown, and the integrity of USTs at the building is unknown. The current potential is low since the unit is no longer active.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which would generate such gases were probably not handled.

RECOMMENDATION: Further investigation. Sample (PRL 246).

AOC No. N-ON/5 Old North Base Former Inflammable Storage Shed

INFORMATION SUMMARY: Site File B-ONB

LOCATION: The building was located approximately 100 feet south of Building 4305 (Figure 3-7). A 1957 design plan renumbering the North Base facilities listed the unit as Building 4302.

SIZE: As-built drawings dated 1946 indicate the building had a floor space measuring 54 feet by 25 feet.

PROBABLE WASTES: The original eastern portion of the building, Warehouse T-57, apparently stored flammable product. Photo-processing wastes were probably generated in the western portion of the building, which was a photo lab built in 1946.

CONCERN: The eastern portion of the building (Warehouse T-57) was constructed in 1944 or 1945. Several 1945 as-builts list the facility as an inflammable storage building. According to a 1946 as-built, a photo lab was added to the west of the existing building, which was shown as a flammable storage warehouse. The units were tied into the boiler heating system at Building 4305. The building was apparently still extant in 1957, but cannot be identified in a 1967 aerial photo.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of waste management practices are unknown. The current potential is low since the unit is no longer active.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which would generate such gases were probably not handled.

RECOMMENDATION: Further investigation. Sample (PRL 247).

AOC No. N-ON/6 Old North Base Former Fire Station

INFORMATION SUMMARY: Site File B-ONB

LOCATION: The building was located approximately 100 feet northeast of Building 4402 (Figure 3-7). A 1957 design plan renumbering the North Base facilities listed the unit as Building 4450.

SIZE: According to as-built drawings dated 1945, the original building, constructed in 1944, had a floor space measuring 32 feet by 88 feet. In 1945, an addition measuring 20 feet by 88 feet was constructed.

PROBABLE WASTES: Wastes handled are unknown, but may have included POL and solvents.

CONCERN: The exact nature of operations at the fire station is unknown, but activities may have included vehicle maintenance, cleaning, and repair. The building was heated by oil-fired consoles. It was demolished sometime between 1957 and 1967.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of waste management practices are unknown. The current potential is low since the unit is no longer active.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which would generate such gases were probably not handled.

RECOMMENDATION: Further investigation. Sample (PRL 248).

AOC No. N-ON/7 Old North Base Potential Former Garage

INFORMATION SUMMARY: Site File B-ONB

LOCATION: The unit was identified during a VSI and was located northwest of the intersection of B and 3rd streets (Figure 3-11). A 1954 as-built drawing identifies two buildings (T-70 and T-75) in this location. A 1957 design plan renumbering the North Base facilities listed these facilities as Buildings 4372 and 4373.

SIZE: The size of the buildings is unknown. What appeared to be a hydraulic lift was identified during the VSI, with an adjacent pipe, possibly containing hydraulic fluid and measuring 9.5 inches in diameter.

PROBABLE WASTES: An oily looking liquid was observed inside the pipe during the VSI.

CONCERN: Based on visual evidence, former Building 4373 appears to have been a garage facility equipped with a hydraulic lift. Details of waste management practices are unknown, but based on known practices at other facilities, may have included disposal on the ground.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of waste management practices are unknown. The current potential is moderate since the field-located pipe appears to still contain oily liquid (possibly hydraulic fluid).

Air - The potential for release to the atmosphere is low, since the liquid probably does not contain volatile wastes.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which would generate such gases were probably not handled.

RECOMMENDATION: Further investigation. Sample (PRL 245).

AOC No. N-ON/8 Old North Base Equipment Burial Pit

INFORMATION SUMMARY: Site File B-ONB

LOCATION: Reportedly, the unit was located north of North Base Road, somewhere between the current guard shack (Building 4310),and the intersection of North Base Road with E and 3rd streets (Figure 3-11). The unit may correspond to a "rubbish pit" shown on a 1945 as-built drawing, located approximately 250 feet northwest of the intersection of North Base Road and 3rd Streets. The unit could not be observed in 1946 aerial photos.

SIZE: Reportedly, the unit measured approximately 100 feet by 20 feet by 7 feet deep. The dimensions of the rubbish pit on the 1945 map were 150 feet by 50 feet, with an unknown depth.

PROBABLE WASTES: Reportedly, many early engines, and possibly whole aircraft, were buried in this pit around 1942 to 1943. Such debris may have contained POL or other hazardous constituents.

CONCERN: The pit was reportedly dug in 1942 or 1943 and filled with aircraft engines and other components. It was reportedly covered over in 1944 or 1945. Although a 1945 as-built drawing shows a "rubbish pit" with the approximate dimensions in the approximate location reported by a long-time employee, no evidence of the unit could be observed in a 1946 aerial photo. The long-time employee who remembers the pit said he has searched for it for years without any success. The unit was probably unlined, and hazardous waste could have been released to the underlying soils.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since it is unknown if materials buried had the potential to release hazardous waste.

Air - The potential for release to the atmosphere is low since reportedly hardware was buried over 40 years ago, and is underground.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which would generate such gases were probably not handled.

RECOMMENDATION: No further investigation. The unit was operational for less than 5 years, and its location is unknown.

AOC Nos. N-UST/1 to N-UST/15 Old North Base Underground Storage Tanks

INFORMATION SUMMARY: Site File B-ONB; Photo N-34

LOCATION: AOC Nos. N-UST/1 to N-UST/8 and AOC Nos. N-UST/11 to N-UST/15 are located within the Old North Base between 4th Street on the north, A Street on the east, 1st Street on the south, and E street on the west (Figure 3-11). AOC Nos. N-UST/9 (Photo N-34) and N-UST/10 are located on the southwestern sides of former Buildings 4391 and 4390, respectively (Figure 3-12).

SIZE: The USTs range in capacity from 300 gallons to 12,000 gallons. (The capacity of AOC No. N-UST/13 is unknown).

PROBABLE WASTES: As-built drawings list contents of the tanks as heating oil (nine tanks), fuel oil (two tanks), gasoline (three tanks), and product oil (one tank).

CONCERN: Tanks installed in the 1940s, 1950s, and 1960s are likely to have leaked fuel into the surrounding soil and groundwater. See Table 3-3 for tank details.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater from AOC Nos. N-UST/1 to N-UST/9 and N-UST/11 to N-UST/15 is unknown since the integrity of the tanks is unknown. The current potential for release to soil and groundwater is low since the units are inactive. The past and current potential for release to soils and groundwater from AOC No. N-UST/10 is high since staining was observed on the ground surface around the tank, which appears to still contain product.

Air - The potential for release to the atmosphere from AOC Nos. N-UST/1 to N-UST/9 and N-UST/11 to N-UST/15 is low since the units are no longer active. The potential for release to the atmosphere from AOC No. N-UST/10 is moderate since a hydrocarbon odor was noted around the tank.

Subsurface Gas - The potential for generation of subsurface gas (methane) from all USTs is low since gasoline and fuel oils are not expected to degrade to a significant extent to methane gas.

RECOMMENDATION: Further investigation. Conduct geophysical survey and then sample at AOC Nos. N-UST/1 (PRL 249), N-UST/3 and N-UST/7-8 (PRL 251), N-UST/6 (PRL 253), and N-UST/12 (PRL 255). Sample at AOC Nos. N-UST/2 (PRL 250), N-UST/4-5 (PRL 252), N-UST/9-10 (PRL 254), N-UST/11 (PRL 253), and N-UST/14-15 (PRL 246). No further investigation at AOC No. N-UST/13, which was abandoned in place in 1967.

NORTH BASE STORM DRAINAGE SYSTEM

Surface runoff in the North Base Area is drained by two sets of open, unlined storm drainage ditches. Runoff east of B Street is diverted eastward via ditches and culverts, which discharge to Rogers Dry Lake Bed. The East Drainage Endpoint (SWMU No. N-SD/1) is located approximately 800 feet southwest of Building 4505 (SF B-ONB).

Surface runoff west of B Street is diverted westward via ditches and culverts which discharge to the Evaporation Pond (SWMU No. N4331/2) south of Building 4331 (SF B-ONB).

Both eastern and western drainage systems may have previously been used to dispose of hazardous materials. The SWMU at the East Drainage Endpoint is shown in Figure 3-10 and described on the following page.

AOC No. N-SD/1 North Base East Drainage Endpoint

INFORMATION SUMMARY: Site File B-ONB

LOCATION: The East Drainage Endpoint is located on the western edge of Rogers Dry Lake, approximately 800 feet southwest of Building 4505.

SIZE: Unknown.

MATERIAL: The unit consists of unlined playa deposits of Rogers Dry Lake Bed.

CONNECTIONS: Drainage ditches east of B Street discharge to the unit.

PURPOSE: The Drainage Endpoint serves as the final discharge point for surface runoff collected east of B Street.

START UP: 1967 or earlier. **DEACTIVATED:** Currently active.

WASTES MANAGED: Any hazardous materials introduced to the east drainage system will be discharged to the east drainage endpoint.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: The unit was not visited.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate because discharge to the Drainage System was not strictly controlled prior to recent years. Current potential is low because hazardous materials are no longer discharged to the system.

Air - The potential for release to the atmosphere is low because the unit no longer handles hazardous materials.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low because wastes which might generate methane are not handled.

RECOMMENDATION: Further investigation. Sample (PRL 256).

BUILDINGS 4785, 4790 and 4795

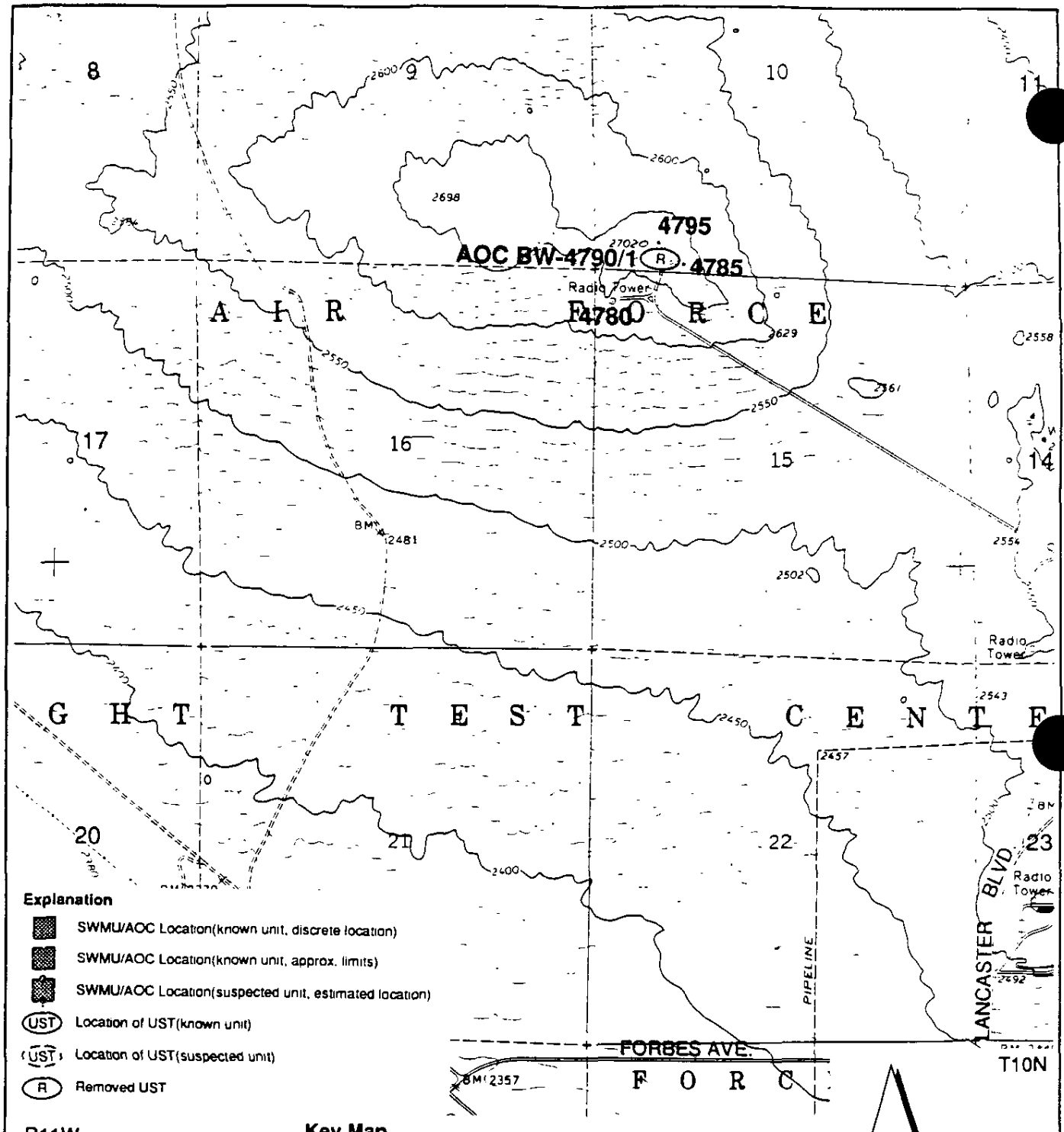
Building 4785 is a radar tracking facility currently operated by CSC personnel. It was constructed in 1962 and contains office space and radar equipment. The facility is located at T10N, R10W, in the southwestern quarter of Section 10 (approximately 1.5 miles northwest of the Main Base Exotic Fuels Storage Area). The facility is accessed by a dirt road which heads north from Lancaster Boulevard. The entrance to the dirt road from Lancaster Boulevard is approximately 0.5 mile north of the intersection of Lancaster Boulevard and Forbes Avenue. Building 4785 is located in a small cluster of buildings that also includes Buildings 4790 and 4795 (SF B-4785/4790/4795).

Building 4795 is a radar antenna facility operated by CSC. It was constructed in 1962; however, it was not put into operation by the Air Force until 1965. Building 4790 is an emergency generator facility that supports the adjacent Building 4795. It was constructed in 1975 and is operated by CSC. The building has an Active UST (AOC No. BW4790/1) to supply diesel fuel to the generator (SF B-4785/4790/4795).

Low-level radiation tubes (110 series) are used in the radar antennae at Buildings 4785 and 4795. Spent tubes are disposed as nonhazardous waste. For disposal, the tubes are reportedly wrapped in bubble wrap and placed in a dumpster, as per instructions from the BEE. The spent tubes are generated at a rate of four to five per year (SF B-4785/4790/4795).

Eighty-weight oil for lubricating the pedestal gear box in which the radar antenna rotates is also used at Buildings 4785 and 4795. Approximately 5 gallons of waste oil are collected once every 2 to 3 years when the oil is replaced. The waste oil is taken either to the Auto Hobby Shop (Building 2450) or to the Aircraft Ground Equipment (AGE) facility (Building 1425) (SF B-4785/4790/4795).

The AOC identified at Building 4790 is shown in Figure 3-13 and described on the following page.



Source: Base map from U.S.G.S. Edwards, CA Quadrangle, 1973.

The Earth Technology Corporation

Project No. 91-1006

Base-Wide Miscellaneous ESI/RFA

Building 4790

9-93

Figure 3-13

AOC No. BW4790/1 **Building 4790 Removed UST**

INFORMATION SUMMARY: Site File B-4785/4790/4795; Documents EAFB-D-79 and EAFB-D-97

LOCATION: The unit (Tank No. M031) was located 23 feet northwest of the northwestern corner of Building 4790.

SIZE: The unit had a capacity of 700 gallons.

PROBABLE WASTES: The Fiberglass UST stores diesel fuel for the emergency generator in Building 4790.

CONCERN: The Fiberglas UST was installed in the late 1970s and removed in February 1993. At the time of tank removal, three soil samples were collected from beneath the UST, at depths ranging from 9 feet to 11 feet below grade. Preliminary (not validated) analytical results are herein summarized. Diesel fuel was detected at 17 mg/kg and 72 mg/kg (9-foot and 10-foot depths); however, at the 11-foot depth, diesel fuel was not detected. Jet fuel, benzene, toluene, ethylbenzene, and xylenes were not detected.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate based on the analytical results for the soil samples. The current potential for release is low since the unit has been removed.

Air - The potential for release to the atmosphere is low since the unit was underground.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low because diesel fuel is not expected to degrade significantly to methane gas.

RECOMMENDATION: No further investigation. Analytical results for the deepest sampling depth (11 feet) were non-detect. Remove contaminated soils.

BUILDINGS 4946 to 4965
(MAIN BASE EXOTIC FUELS STORAGE AREA)

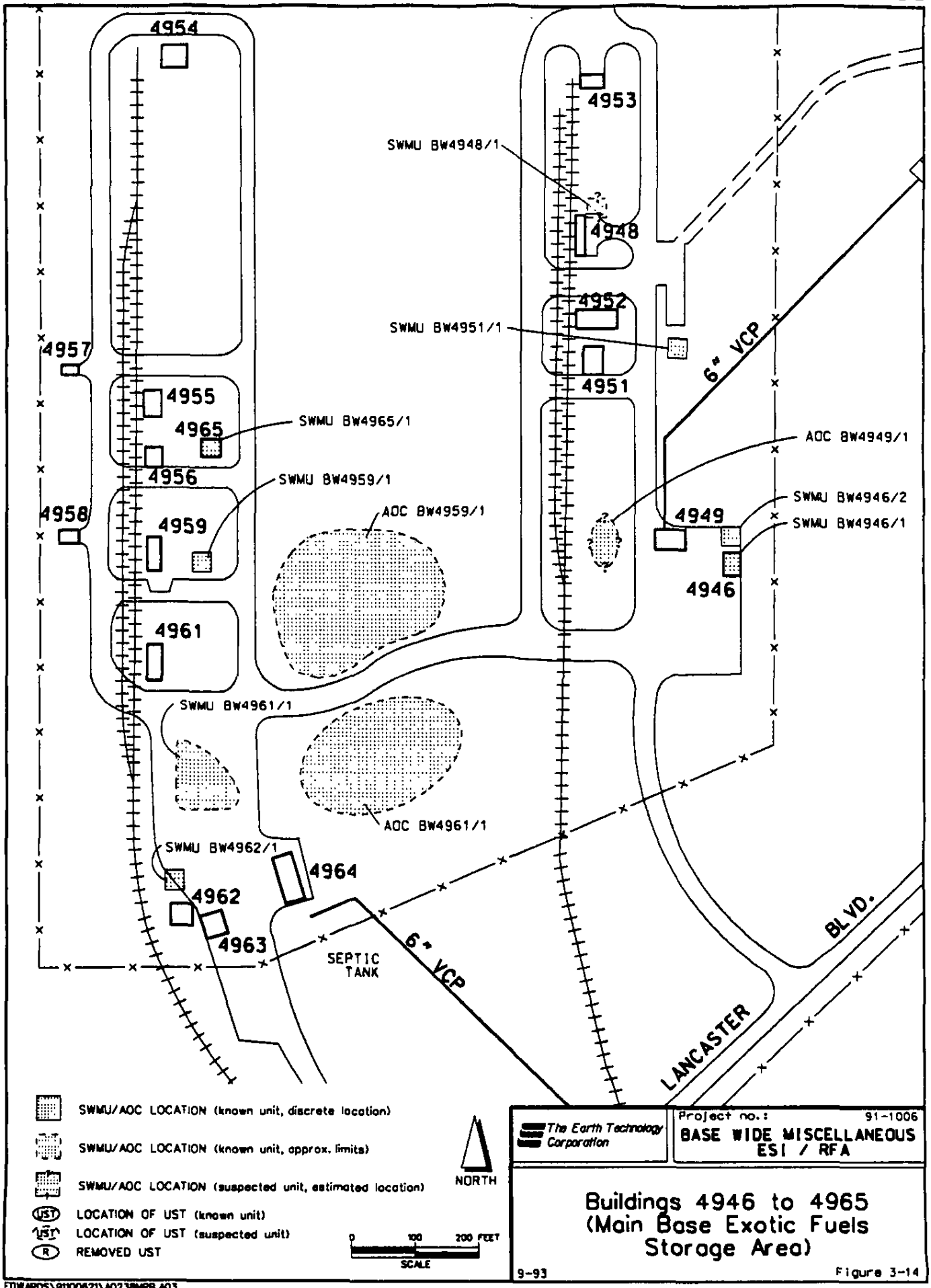
The Main Base Exotic Fuels Storage Area (MBEFSA) is a compound of approximately 17 buildings (Buildings 4946, 4948, 4949, 4951 to 4959, and 4961 to 4965), tanks, ponds, and wash areas located within a fenced yard west of the intersection of Rosamond and Lancaster boulevards. The compound was constructed in the early 1950s to be a storage yard for miscellaneous exotic fuels used on base. In the past, these fuels included anhydrous ammonia, aniline, furfuryl alcohol, ethyl alcohol, nitric acid, and UDMH (unsymmetrical dimethylhydrazine). The bulk of these materials were used on the flight line and by NASA; the area also supplied hydrogen peroxide to the Phillips Laboratory, and nitrous oxide to Building 1910 for the airborne laser laboratory (SF B-4946 to 4965; Earth Technology, 1991b).

The MBEFSA has been identified as IRP Site 25. In March 1987, a long-time employee identified five locations in the yard where wastes were historically disposed onto the ground surface (EAFB-D-25):

- TCE Storage Area (AOC No. BW4949/1)
- Drainage Area 1 (AOC No. BW4959/1) east of Buildings 4959 and 4961
- Drainage Area 2 (AOC No. BW4961/1) north of Building 4964
- Wash Rack and Oil/Water Separator (SWMU No. BW4962/1) behind Building 4962
- Earthen Basin (SWMU No. BW4961/1) southeast of Building 4961.

According to an as-built drawing dated 1954, the original MBEFSA compound consisted of two rows of storage bunkers, each served by a "change house." A railroad track runs down the western side of each row of bunkers and was formerly used to offload fuels. Each bunker was also equipped with a truck stand, so that fuels could be pumped out of storage tanks in the bunkers for transport to their end use. Building 4963 was the change house for the western row of bunkers (Buildings 4954, 4955, 4956, 4959, and 4961), which stored liquid fuels (propellants). Building 4949 was the change house for the eastern row of bunkers (Buildings 4953, 4952, 4951), and two unnumbered storage areas (for LOX and LN_2), which stored oxidizers. The unnumbered LOX and LN_2 storage facilities are no longer extant.

Beginning from south to north along the eastern row of bunkers, and continuing from north to south down the western row of bunkers (Figure 3-14), each building with its associated SWMUs and AOCs is briefly described below.



EDWARDS\91100621\A0238MPB.A03

Building 4946 was constructed in 1977 and has been used since the late 1980s as a hydrazine service center. Spent cylinders of H70 (70 percent hydrazine/30 percent demineralized water) used in the Emergency Power Units (EPUs) of F-16 aircraft are emptied into a Scrubber Unit (SWMU No. BW4946/1) at Building 4946. Formerly, the H70 was released to Catch Tank 1 (SWMU No. BW4951/1) east of Building 4951, where the propellant was neutralized with household bleach and allowed to evaporate. Since 1989, the neutralized contents of the Scrubber Unit have been transferred into 55-gallon drums and held in temporary storage at an Accumulation Point (SWMU No. BW4946/2). Approximately 200 gallons to 300 gallons of waste H70 are generated per year. The only other hazardous wastes generated at the MBEFSA are 2 gallons to 5 gallons of vacuum pump oil per year, and small quantities of motor oil which are turned in to the Transportation Squadron (SF B-4946 to 4965).

The EPU cylinders are cleaned and refilled before being packed in caskets and trucked to aircraft on the flight line. The MBEFSA also services cylinders for the B-2 bomber and the Fresno Air National Guard. Reportedly, a new service facility is planned on the northern side of Building 4946. The facility is to include an upgraded Accumulation Point (SF B-4946 to 4965).

Building 4949, constructed in 1954, originally served as the change house for oxidizers. It has a septic tank and gravel trench. The septic tank is located approximately 200 feet north of Building 4949, and the gravel trench is located approximately 400 feet northeast of the septic tank outside of the fenceline of the MBEFSA. According to the long-time employee interviewed in 1987 (EAFB-D-25), there used to be a TCE Storage Area (AOC No. BW4949/1) west of Building 4949, where approximately 1,000 drums of TCE were stored at one time. More recently, Building 4949 has been used to store hydrazine for operations performed in Building 4946. Product H70 is purchased from a commercial vendor and stored at the Phillips Laboratory; only one drum is kept on hand in Building 4949 (SF B-4946 to 4965; EAFB-D-25).

Buildings 4951 and 4952 were constructed in the early 1950s as storage bunkers for nitric acid. They drain to Catch Tank 1, formerly used as a neutralization pit for nitric acid. Today Buildings 4951 and 4952 are used to produce demineralized water. Building 4948, which consists of a concrete pad and storage area, was constructed in 1969 as a railroad offloading stand for liquid fuels. The concrete pad drains to a drainage trench and then through an Underground Pipe and Discharge Area (SWMU No. BW4948/1) northeast of Building 4948. Building 4948 was formerly used to store hydrogen peroxide. Today, empty EPU cylinders are stored here (SF B-4946 to 4965).

Building 4953 was constructed in 1954 as a storage bunker for hydrogen peroxide. Later, nitrous oxide for the airborne laser lab (Building 1910) was also stored. The bunker is currently inactive (SF B-4946 to 4965).

Building 4954, located at the northern end of the western row of storage bunkers, was constructed in 1954 to store liquid anhydrous ammonia. It is currently inactive. Buildings 4955 and 4956, also constructed in the early 1950s, were built to store ethyl alcohol. Building 4955 has a 9,000-gallon aboveground tank currently storing isopropyl alcohol. Building 4956 has two

3,000-gallon aboveground tanks currently storing isopropyl alcohol and ethyl alcohol. Both buildings drain to Catch Tank 2 (SWMU No. BW4965/1), identified as Building 4965 (SF B-4946 to 4965).

Buildings 4957 and 4958 were constructed in 1954 as shelters for fire protection equipment, and are still used to store equipment. Building 4959 was constructed in 1954 as a storage bunker for aniline. It has a drainage trench that discharges to a 10,000-gallon Underground Sump (SWMU No. BW4959/1) east of the building. According to a long-time employee interviewed in March 1987 (EAFB-D-25), aniline from the bunker's 9,000-gallon aboveground tank was discharged to the ground (presumably around 1960) and replaced with trichloroethene (TCE) for the B-70 program, which ran from about 1960 to 1970 (see the ESI/RFA ITIR for the MBFL, Building 1622). Reportedly, upon cancellation of the B-70 project in 1971, the TCE was drained to the ground as well. In both instances, the material reportedly flowed into Drainage Area 1 (AOC No. BW4959/1) east of Buildings 4959 and 4961. Later, the tank was reportedly used to store hydrazine. Most recently, ethyl alcohol was stored at Building 4959. The bunker is currently inactive (SF B-4946 to 4965; EAFB-D-25).

Building 4961 was constructed in 1954 as a storage bunker for furfuryl alcohol. Reportedly around 1960, the 9,000-gallon aboveground storage tank was emptied, with furfuryl alcohol flowing to Drainage Area 1 (EAFB-D-25). The tank then was used to store aniline. Most recently, methyl alcohol was stored at Building 4961. The bunker is currently inactive. Southeast of Building 4961 is an Earthen Basin (SWMU No. BW4961/1) adjacent to a former parking area for propellant trailers. Reportedly, residual wastes from trailers and trucks were often emptied into the Earthen Basin, which drains eastward into Drainage Area 2 (AOC No. BW4961/1) (SF B-4946 to 4965; EAFB-D-25).

Building 4962 is a small building originally constructed as an auxiliary power supply facility and now used as a supply shed. Immediately north of Building 4962 is a Wash Rack and Oil/Water Separator (SWMU No. BW4962/1), constructed in 1954, where reportedly various contaminants were disposed from the 1950s through early 1970s. Building 4963 was originally the change house for the liquid fuels bunkers; it is now the administrative office for the entire complex. A septic tank and gravel trench service this building (SF B-4946 to 4965; EAFB-D-25). The septic tank is located approximately 200 feet east of Building 4963, and the gravel trench is located approximately 600 feet southeast of the septic tank. Both units are outside the fenceline for the MBEFSA (SF B-4946 to 4965).

Building 4964 was constructed around 1952 as a Chemistry Laboratory and was later converted to a Fuels Laboratory. According to a letter written in 1981 (in response to a previous investigation into past hazardous waste disposal practices at the base), various chemicals in jars and other containers were buried in a 2-foot-deep Chemical Disposal Trench (AOC No. BW4964/1) approximately 25 feet from Building 4964. Reportedly the burial occurred around 1957 when the Chemistry Laboratory was relocated from Building 4964 to the Rocket Lab (currently Phillips Laboratory) (EAFB-D-80).

Table 3-4 summarizes the past and current uses of each of the buildings at the MBEFSA. With the exception of AOC No. BW4964/1, the exact location of which is unknown, the SWMUs and AOCs associated with the MBEFSA are shown in Figure 3-14 and discussed on the following pages.

TABLE 3-4. PAST AND CURRENT USES OF BUILDINGS AT MAIN BASE EXOTIC FUELS STORAGE AREA

Bldg. No.	Historic Use	Current Use
4946	Hydrazine	Hydrazine service area
4948	Offloading, H_2O_2	H70 cylinder storage
4949	Change house	Hydrazine storage
4951	Nitric Acid	Demineralized water production
4952	Nitric Acid	Demineralized water production
4953	H_2O_2, N_2O	Inactive
4954	NH_3	Inactive
4955	Ethyl alcohol	9,000 gallons isopropyl alcohol
4956	Ethyl alcohol	3,000 gallons isopropyl alcohol; 3,000 gallons ethyl alcohol
4957	Fire protection equipment	Storage
4958	Fire protection equipment	Storage
4959	Aniline	9,000 gallons ethyl alcohol (inactive)
4961	Furfuryl alcohol	9,000 gallons methyl alcohol (inactive)
4962	Auxiliary power	Supply shed
4963	Change house	Administrative office
4964	Fuel laboratory	Inactive
4965	Catch tank	Catch tank

SWMU No. BW4946/1 Building 4946 Scrubber Unit

INFORMATION SUMMARY: Site File B-4946 to 4965

LOCATION: The unit is located under a sun shade on the northern side of Building 4946.

SIZE: The unit is approximately 3.5 feet long by 2 feet wide by 10 inches deep.

MATERIAL: The unit is constructed of nickel-plated stainless steel.

CONNECTIONS: None.

PURPOSE: The Scrubber Unit is used to neutralize spent H70 from cylinders used in the Emergency Power Units (EPUs) of aircraft.

START UP: Approximately 1982. **DEACTIVATED:** Currently active.

WASTES MANAGED: Spent H70 (70 percent hydrazine/30 percent water) fuel is managed. Approximately 200 gallons to 300 gallons of neutralized H70 is generated annually, and stored at the Accumulation Point (SWMU No. BW4946/2).

RELEASE CONTROLS: The unit is constructed of nickel-plated stainless steel, and is located on a concrete pad, under a sun roof. Spillage around the unit is reportedly collected in a 55-gallon drum.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release.

VSI COMMENTS: The unit appeared to be well-maintained.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the unit provides adequate secondary containment.

Air - The potential for release to the atmosphere is low since the unit is fully enclosed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since only inorganic wastes are handled and wastes are stored above ground.

RECOMMENDATION: No further investigation.

SWMU No. BW4946/2 Building 4946 Accumulation Point

INFORMATION SUMMARY: Site File B-4946 to 4965

LOCATION: The 90-day unit is located north of Building 4946.

SIZE: The unit is approximately 20 feet by 20 feet.

MATERIAL: The unit is constructed of concrete. Filled drums of neutralized H70 are stored on a wooden pallet. A partially filled drum is stored in a metal drip pan.

CONNECTIONS: The concrete pad slopes to a trough on the north, which drains to Catch Tank 1 (SWMU No. BW4951/1).

PURPOSE: The unit is used for temporary storage of spent, neutralized H70 until transport to the Base Hazardous Waste Storage Facility at Building 4916.

START UP: Approximately 1982. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages approximately 200 gallons to 300 gallons of neutralized, spent H70 annually.

RELEASE CONTROLS: The unit is constructed on a concrete pad which slopes to a concrete trough draining to Catch Tank 1. Drums are stored in drip pans and/or on wooden pallets.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release associated with this unit.

VSI COMMENTS: The area appears clean and well-maintained.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since the unit provides adequate secondary containment.

Air - The potential for release to the atmosphere is low since wastes are stored in closed drums.

Subsurface Gas - The potential for generation of subsurface gas is low since wastes are stored aboveground.

RECOMMENDATION: No further investigation.

SWMU No. BW4948/1 Building 4948 Underground Pipe and Discharge Area

INFORMATION SUMMARY: Site File B-4946 to 4965

LOCATION: The Discharge Area starts at the end of an Underground Pipe that runs from the concrete drainage trench at Building 4948 approximately 50 feet to the northeast.

SIZE: According to a 1967 as-built drawing, the Underground Pipe is 12 inches in diameter and is approximately 50 feet long. The size of the Discharge Area is unknown.

MATERIAL: A concrete drainage trench discharges to a steel Underground Pipe, which apparently discharges to grade.

CONNECTIONS: A spillway adjacent to the railroad tracks empties into a drainage trench, and the concrete pad associated with Building 4948 is sloped to drain to the drainage trench. The drainage trench runs from west to east down the center of the concrete pad at Building 4948, discharging to an Underground Pipe. According to as-built maps, the Underground Pipe apparently discharges to the ground surface on a downslope approximately 15 feet northeast of the concrete pad.

PURPOSE: The unit was apparently used to drain rainwater and spills from the liquid fuels offloading dock at Building 4948.

START UP: 1967. **DEACTIVATED:** Unknown.

WASTES MANAGED: The unit apparently managed rainwater and any hazardous wastes that may have spilled onto the unloading pad at Building 4948.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Unknown, but any releases would have discharged to grade.

VSI COMMENTS: The unit was not inspected during the VSI.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since hazardous wastes may have been discharged directly to the ground surface in the past. The current potential for release is low since hazardous wastes are no longer discharged through the drainage trench.

Air - The potential for release to the atmosphere is low since the unit does not typically handle volatile wastes.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit probably did not handle wastes that might generate methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 25).

AOC No. BW4949/1 **Building 4949 TCE Storage Area**

INFORMATION SUMMARY: Site File B-4946 to 4965

LOCATION: The unit is located west of Building 4949.

SIZE: Unknown.

PROBABLE WASTES: Reportedly, the unit was used during the 1950s and 1960s as the base storage supply area for product trichloroethene (TCE).

CONCERN: Reportedly, approximately 1,000 55-gallon drums of TCE were stored on bare ground in this area during the 1950s and 1960s. Many of the drums leaked and excess TCE was commonly discharged onto the ground, flowing downslope to the east.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate based on anecdotal reports of TCE discharge in the area during the 1950s and 1960s. The current potential for release is low, since TCE is no longer stored in this area.

Air - The potential for release to the atmosphere is low since surface soils are no longer anticipated to be contaminated with volatile organics.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since TCE is not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 25).

SWMU No. BW4951/1 Building 4951 Catch Tank 1

INFORMATION SUMMARY: Site File B-4946 to 4965

LOCATION: The unit is located approximately 100 feet east of Building 4951.

SIZE: The unit is approximately 25 feet square by 12 feet deep.

MATERIAL: The unit is constructed of concrete.

CONNECTIONS: A trough leads from the Accumulation Point (SWMU No. BW4946/2) at Building 4946 to Catch Tank 1. The concrete pads at Buildings 4951 and 4952 also discharge to the unit.

PURPOSE: The Catch Tank was historically used to neutralize nitric acid released during pumping from storage tanks at Buildings 4951 and 4952. The liquid was then allowed to evaporate. During the early 1980s, the unit was used as a neutralization basin for spent H70 from aircraft EPU cylinders. Since 1989, the unit has not been used, except to retain rainwater and inadvertent spills of demineralized water from Buildings 4951 and 4952.

START UP: 1950s. **DEACTIVATED:** 1989.

WASTES MANAGED: The unit was historically used to neutralize nitric acid stored at Buildings 4951 and 4952. During the early 1980s, it was used as a neutralization basin for spent H70 from aircraft EPU cylinders.

RELEASE CONTROLS: None, other than the primary containment.

HISTORY OR EVIDENCE OF RELEASE: Historically, the unit released routinely to the atmosphere. Reportedly, the unit leaks.

VSI COMMENTS: At the time of the VSI, the unit was full of water.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since the integrity of the unit is unknown. The current potential for release is low since hazardous wastes are no longer discharged to the unit.

Air - The potential for release to the atmosphere is low since the unit no longer handles hazardous wastes.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since organic wastes were not handled.

RECOMMENDATION: Further investigation. Check unit integrity. Sample (PRL 25).

SWMU No. BW4959/1 Building 4959 Underground Sump

INFORMATION SUMMARY: Site File B-4946 to 4965; Document EAFB-D-25

LOCATION: The unit is located approximately 50 feet east of Building 4959.

SIZE: The unit (Tank No. M124) has a capacity of 5,000 gallons. A concrete access hatch on the surface is approximately 5 feet by 5 feet.

MATERIAL: The unit is constructed of steel.

CONNECTIONS: A drainage trench at Building 4959 discharges through a 6-inch-diameter steel pipe to the Underground Sump.

PURPOSE: The Underground Sump was apparently used to contain spills occurring at Building 4959.

START UP: 1954. **DEACTIVATED:** Unknown

WASTES MANAGED: The unit is used to contain runoff, which may include spilled fuels, from the concrete pad at Building 4959.

RELEASE CONTROLS: The unit is underground, and made of steel.

HISTORY OR EVIDENCE OF RELEASE: According to a longtime employee interviewed in March 1987 (EAFB-D-25), aniline from the 9,000-gallon tank at Building 4959 was discharged to the ground (presumably around 1960) and replaced with trichloroethene (TCE) for the B-70 program, which ran from about 1960 to 1970 (see the ESI/RFA for the MBFL, Building 1622). Reportedly, upon cancellation of the B-70 project in 1971, the TCE was drained to the ground as well. In both instances, the material reportedly flowed into Drainage Area 1 (AOC No. BW4959/1). However, it seems likely that at least a portion of the materials would have drained to the Underground Sump, from which they may have been pumped out.

VSI COMMENTS: Only the concrete access hatch could be observed from the ground surface.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown, since the integrity of the unit is unknown. Reportedly, it has not been pumped out in years.

Air - The potential for release to the atmosphere is low since volatile wastes are not handled in the unit.

Subsurface Gas - The potential for generation of subsurface gas is low, since the wastes handled are not likely to generate such gas.

RECOMMENDATION: Further investigation. Check unit integrity. Sample (PRL 25).

AOC No. BW4959/1 Building 4959 Drainage Area 1

INFORMATION SUMMARY: Site File B-4946 to 4965; Document EAFB-D-25

LOCATION: The unit is located east of Buildings 4959 and 4961.

SIZE: The unit has an estimated area of approximately 1 acre, encompassing the drainage area from culverts that cross under the access road east of Buildings 4959 and 4961.

PROBABLE WASTES: The unit may have handled various exotic fuels and solvents spilled into the drainage culverts, including furfuryl alcohol, TCE and aniline.

CONCERN: Two incidents of hazardous materials being discharged to the bare ground were reported by a longtime employee interviewed in 1987 (EAFB-D-25). Reportedly, a 15,000-gallon tank of furfuryl alcohol, located at Building 4961, was drained of its contents around 1960. The material flowed freely downslope to the east upon discharge from the culvert. The second incident involved a 15,000-gallon tank located at Building 4959. Initially, this tank contained aniline which was drained to the ground probably around 1960. Later, the tank was used to store TCE. In 1971, the TCE was drained to the ground. In both instances the material flowed through the culvert and down the slope toward Building 4949. Note: based on as-built drawings and a site visit, both Buildings 4959 and 4961 contain 9,000-gallon tanks, not 15,000-gallon tanks as reported in Reference EAFB-D-25.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate based on anecdotal reports of TCE, aniline, and furfuryl alcohol discharge to the area. The current potential for release is low, since the tanks at Buildings 4959 and 4961 are now empty.

Air - The potential for release to the atmosphere is low since surface soils are no longer anticipated to be contaminated with volatile organics.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the spilled materials are not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 25).

SWMU No. BW4961/1 Building 4961 Earthen Basin

INFORMATION SUMMARY: Site File B-4946 to 4965

LOCATION: The unit is located approximately 100 feet southeast of Building 4961.

SIZE: The unit is approximately 100 feet in diameter by 4 feet deep.

MATERIAL: The unit consists of an earthen pit, which appears to be a natural basin.

CONNECTIONS: Rinsewater used at the Wash Rack and Oil/Water Separator (SWMU No. BW4962/1) discharges into a ditch parallel to the railroad tracks, eventually emptying into the Earthen Basin. Reportedly, for an approximately 20-year period from the 1950s through the early 1970s, the ravine through which the railroad traverses was commonly filled with liquid wastes up to 1 foot deep, extending from the fence boundary on the south to the Earthen Basin on the north. A culvert leading from the Earthen Basin discharges downslope to the east.

PURPOSE: The Earthen Basin was used as a holding pond for wastewater discharged through the Wash Rack area, and from trucks which emptied their holding tanks directly into the unit.

START UP: 1950s. **DEACTIVATED:** Currently active.

WASTES MANAGED: Motor oils and hydraulic fluid may be discharged to the unit during vehicle-washing at the Wash Rack and Oil/Water Separator. Reportedly, from the 1950s to early 1970s, various waste chemicals, including ethyl alcohol, aniline, furfuryl alcohol, TCE and other solvents, and aromatic hydrocarbons were emptied into the Wash Rack drain and directly into the unit.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Various chemicals may have been discharged to the unit for a period of approximately 20 years.

VSI COMMENTS: No visual evidence of release was observed. The unit showed evidence of some erosion.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate based on anecdotal reports of chemical discharge to the unit from the 1950s to the early 1970s. The current potential for release is low, since only three vehicles currently use the Wash Rack.

Air - The potential for release to the atmosphere is low since volatile wastes are not handled in the unit.

Subsurface Gas - The potential for generation of subsurface gas is low since wastes discharged to the unit are not expected to degrade significantly to methane.

RECOMMENDATION: Further investigation. Sample (PRL 25).

AOC No. BW4961/1 **Building 4961 Drainage Area 2**

INFORMATION SUMMARY: Site File B-4946 to 4965

LOCATION: The unit is located north of Building 4964, east of the Earthen Basin (SWMU No. BW4961/1).

SIZE: The unit has an estimated area of approximately 1 acre, encompassing the drainage area from gullies that cross under the access road east of the Wash Rack and Oil/Water Separator (SWMU No. BW4962/1) and the Earthen Basin.

PROBABLE WASTES: The unit may have handled various exotic fuels and solvents discharged to the Wash Rack and Oil/Water Separator and to the Earthen Basin, including ethyl alcohol, aniline, furfuryl alcohol, TCE, and aromatic hydrocarbons.

CONCERN: Reportedly, from the 1950s to early 1970s, various waste chemicals, including those listed above, were emptied into the Wash Rack drain and Earthen Basin. The latter unit discharges to Drainage Area 2 on the east.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate based on anecdotal reports of miscellaneous chemicals being disposed to the Earthen Basin. The current potential for release is low, since hazardous wastes are no longer disposed into the Earthen Basin.

Air - The potential for release to the atmosphere is low since surface soils are no longer anticipated to be contaminated with volatile organics.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the spilled materials are not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 25).

SWMU No. BW4962/1 Building 4962 Wash Rack and Oil/Water Separator

INFORMATION SUMMARY: Site File B-4946 to 4965

LOCATION: The Wash Rack is located north of Building 4962. The Oil/Water Separator is located west of the Wash Rack, along the railroad tracks.

SIZE: The Wash Rack is approximately 20 feet by 35 feet. The Oil/Water Separator is approximately 2 feet square by 2 feet deep.

MATERIAL: The Wash Rack is constructed of concrete with a steel grate in the center to drain rinsewater. The Oil/Water Separator is constructed of concrete.

CONNECTIONS: Rinsewater used at the Wash Rack drains through the central drain to the Oil/Water Separator, which retains POL and debris (sludge). The remaining liquid flows from the Oil/Water Separator through a drain pipe and into a ditch parallel to the railroad tracks, eventually emptying into the Earthen Basin (SWMU No. BW4961/1).

PURPOSE: The Wash Rack is used to wash ground vehicles belonging to the Main Base Exotic Fuels Storage Area. Currently only three vehicles use the facility. The Oil/Water Separator is used to remove POL from rinsewater.

START UP: 1950s. **DEACTIVATED:** Currently active.

WASTES MANAGED: Motor oils and hydraulic fluid may be discharged to the unit's central drain during vehicle-washing. Reportedly, from the 1950s to early 1970s, various waste chemicals, including ethyl alcohol, aniline, furfuryl alcohol, TCE, other organic solvents, and aromatic hydrocarbons were emptied into the Wash Rack drain.

RELEASE CONTROLS: The Wash Rack consists of a concrete pad that drains to a concrete Oil/Water Separator, where heavy oil debris settles out. It is unknown whether the sludge was routinely removed in the past.

HISTORY OR EVIDENCE OF RELEASE: Various chemicals may have been discharged to the unit for a period of close to 20 years.

VSI COMMENTS: Several cracks were observed in the weathered concrete of the Wash Rack. The Oil/Water Separator is also constructed of weathered concrete; it reportedly does not work properly.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the unit and the frequency of sludge removal is unknown. Oil wastes and reportedly a variety of other hazardous wastes have been discharged through the unit for many years.

Air - The potential for release to the atmosphere is low since rinsewater drains to the Oil/Water Separator, which is below grade.

Subsurface Gas - The potential for generation of subsurface gas is low since wastes discharged to the unit are not expected to degrade significantly to methane.

RECOMMENDATION: Further investigation. Check unit integrity. Sample (PRL 25).

AOC No. BW4964/1 Building 4964 Chemical Disposal Trench

INFORMATION SUMMARY: Document EAFB-D-80

LOCATION: The unit was reportedly approximately 25 feet from Building 4964. Its exact location is unknown, and therefore the unit is not shown in Figure 3-14.

SIZE: The unit is reportedly 2 feet deep but the dimensions are otherwise unknown.

PROBABLE WASTES: Around 1957, various chemicals were reportedly buried in jars and other containers inside the unit.

CONCERN: A letter written in 1981 in response to a previous investigation into past hazardous waste disposal practices indicated that various chemicals, in jars and other containers, were buried in a 2-foot-deep Chemical Disposal Trench approximately 25 feet from Building 4964. Reportedly the burial occurred around 1957 when the Chemistry Laboratory was relocated from Building 4964 to the Rocket Lab (currently Phillips Laboratory).

RELEASE POTENTIAL:

Soil/Groundwater -The past and current potential for release to soils and groundwater is unknown since the integrity of the containers in which chemicals were reportedly buried is unknown.

Air -The potential for release to the atmosphere is low since surface soils are not anticipated to be contaminated with volatile organics.

Subsurface Gas - The potential for generation of subsurface gas (methane) is unknown since the integrity of containers is unknown and the materials buried are unknown.

RECOMMENDATION: Further investigation. Conduct geophysical survey and then sample (PRL 25).

SWMU No. BW4965/1 Building 4965 Catch Tank 2

INFORMATION SUMMARY: Site File B-4946 to 4965; Earth Technology (1991b)

LOCATION: The unit is located approximately 50 feet east of Building 4956, and is designated Facility 4965.

SIZE: The unit is approximately 15 feet square by 8 feet deep.

MATERIAL: The unit is constructed of concrete.

CONNECTIONS: The unit is connected by piping to concrete pads at Buildings 4955 and 4956. It has no outlet. Liquids are pumped out if necessary.

PURPOSE: The unit is used to contain runoff and spills from the storage bunkers at Buildings 4955 and 4956. Any ethyl or isopropyl alcohol that collects in Catch Tank 2 is typically allowed to evaporate.

START UP: 1950s. **DEACTIVATED:** Currently active.

WASTES MANAGED: The Catch Tank manages rainwater and spillage from the ethyl alcohol and isopropyl alcohol storage bunkers.

RELEASE CONTROLS: The unit is constructed of concrete. Alcohols have historically been allowed to evaporate from the unit.

HISTORY OR EVIDENCE OF RELEASE: Historically, the unit released routinely to the atmosphere. Based on the unit's age, it is possible that the unit leaks.

VSI COMMENTS: At the time of the VSI, the unit was full of water.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the unit is unknown.

Air - The potential for release to the atmosphere is moderate since alcohols released to the unit are allowed to evaporate.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes handled probably would not generate significant quantities of such gas.

RECOMMENDATION: Further investigation. Check unit integrity. Sample (PRL 25).

BUILDING 4970

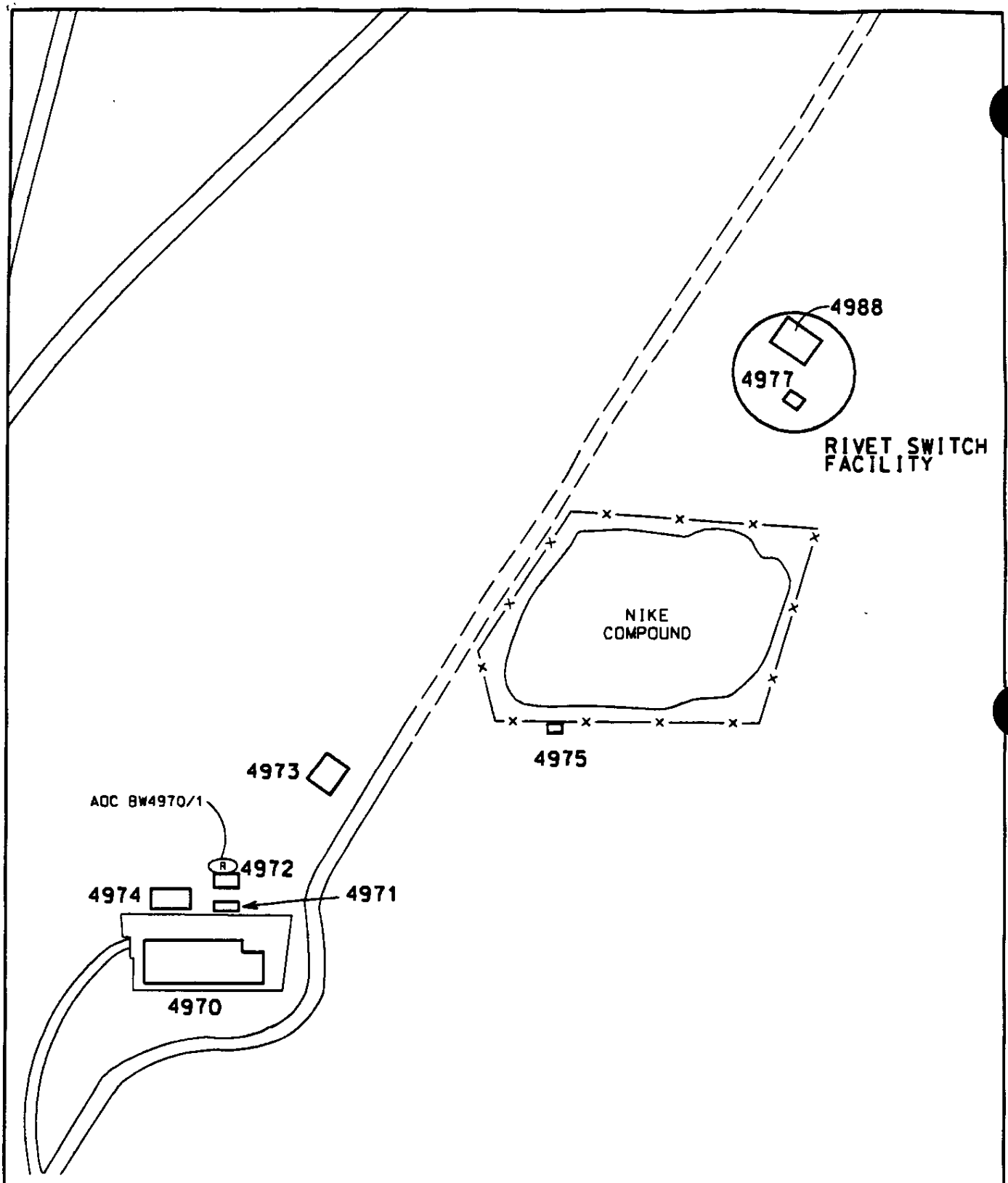
Building 4970 is shared by the 6521st Range Squadron and CSC, and is used for maintenance and repair of tracking instrumentation used on the bombing range. It is located on the eastern side of Lancaster Boulevard near its intersection with Forbes Avenue, approximately 1,000 feet northwest of the Main Base bulk fuel storage area. The building was reportedly constructed in the 1950s (SF B-4970 to 4976).

CSC personnel occupy the eastern portion of the facility, conducting operations to maintain remote tracking systems on the range and in other parts of the base. The tracking stations include CONTRAVES (camera) stations C-1, C-4 through C-9, and C-15; as well as a digital instrumentation radar (DIR) at the C-4 site. In addition, CSC performs maintenance on electronic equipment at this location, using denatured alcohol on swabs for cleaning. No hazardous waste is generated during these operations (SF B-4970 to 4976).

The western portion of Building 4970 contains office space occupied by Range Squadron personnel. The Range Squadron originally used the building as the operations center before operations were moved to Building 3940, and then to the current location at Building 1440 (SF B-4970 to 4976).

On the northern side of the building is a small emergency generator facility, Building 4972. A 500-gallon Removed UST (AOC No. BW4970/1) for diesel fuel was located approximately 6 feet north of Building 4972. The UST was installed in 1964 and removed in February 1993; no staining was observed at the unit during the 1992 VSI (SF B-4970 to 4976).

The AOC at Building 4970 is shown in Figure 3-15 and described on the following page.



EDWARDS\91100621\AD23SWPB.AD3

AOC No. BW4970/1 Building 4970 Removed UST

INFORMATION SUMMARY: Site File B-4970 to 4976; Documents EAFB-D-79 and EAFB-D-97

LOCATION: The unit (Tank No. M103) is located approximately 6 feet northwest of Building 4972.

SIZE: The unit had a capacity of 550 gallons.

PROBABLE WASTES: The UST stored diesel fuel for the emergency generator at Building 4972.

CONCERNS: The UST was installed in 1964 and removed in the winter of 1993. No surface staining was observed at the unit during the 1992 VSI. At the time of tank removal, two soil samples were collected from beneath the UST at depths of 7.5 feet to 8 feet below grade. Preliminary (not validated) analytical results are herein summarized. Diesel fuel was detected at 1,000 mg/kg and 210 mg/kg (7.5 foot and 8-foot depths) and total xylenes was detected at 1.4 mg/kg at the 7.5 foot depth. Jet fuel, benzene, toluene, ethylbenzene, and total xylenes (8 foot depth) were not detected.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate based on the analytical results for the soil samples. The current potential for release to soils and groundwater is low since the unit has been removed.

Air - The potential for release to the atmosphere is low since the unit was underground and there is no evidence of release.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low because diesel fuel is not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 306).

BUILDING 4973

Building 4973 is occupied by CSC personnel, and used for range-related operations. It is approximately 300 feet north of Building 4970. The building was reportedly constructed in the late 1950s, and prior to conversion to its current use in the mid-1970s, was used as a logistics warehouse. The eastern portion of the facility is used for office space, and the western portion is used for electronics maintenance. Tape recorders used at tracking stations on the range are cleaned using small amounts of isopropyl alcohol; no hazardous waste is generated and there are no SWMUs or AOCs at the facility (SF B-4970 to 4976).

BUILDING 4975

Building 4975 is a small support facility for the NIKE compound. It is located approximately 500 feet northeast of Building 4970, on the eastern side of the access road. The NIKE compound occupies a fenced area measuring approximately 300 feet by 400 feet. The compound contains several radar stations and electronics trailers used for tracking test missiles. In the northwest corner of the compound is an area where electronic equipment and supplies are stored on the ground. An electrical transformer is located outside the southern section of the fence. At the time of the 1992 VSI, the transformer had been recently replaced, and the removed one was sitting on the ground on the western side of the newly installed one. There was no sign of leakage from the unit (SF B-4970 to 4976).

On the northern side of the NIKE compound is a CONTRAVES station, Building 4977. Building 4988, north of the CONTRAVES station, is a garage-like corrugated metal structure. Approximately 1,000 feet further north on the access road is Building 4987, which houses an emergency generator. On the western side of the building is an aboveground fuel tank to supply the emergency generator; its capacity is estimated to be 250 gallons. There are no SWMUs or AOCs at any of these facilities (SF B-4970 to 4976).

BUILDING 4976

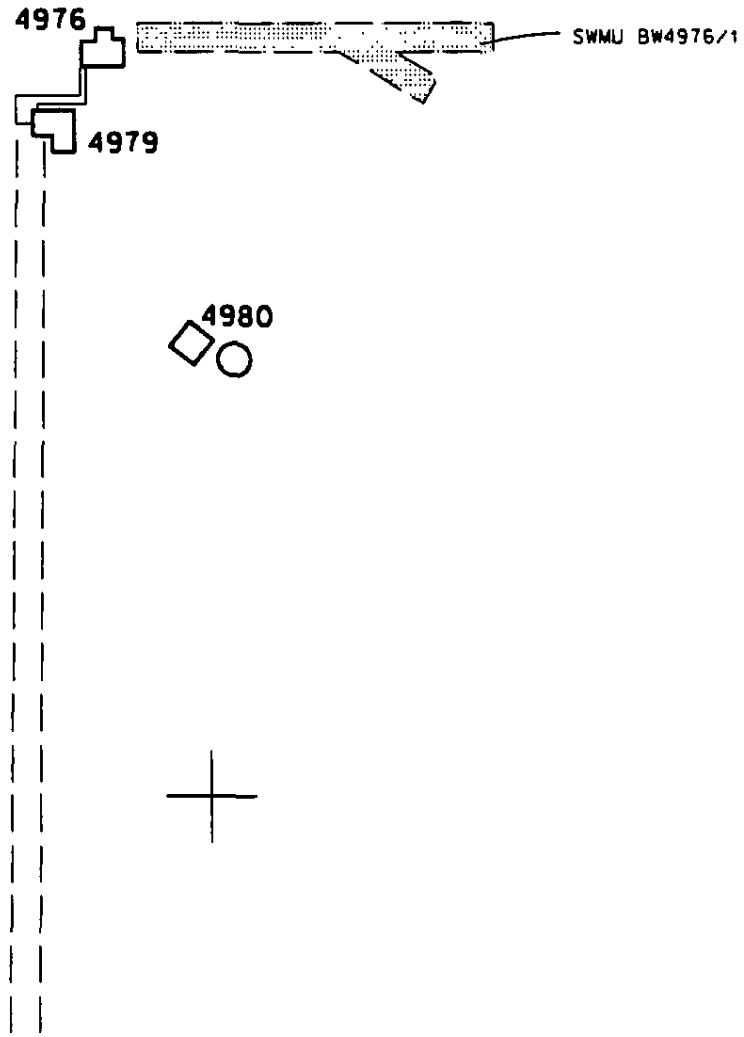
Building 4976 is located in T10N, R10W, in the southwestern quarter of Section 142 (approximately 0.5 mile northwest of the Main Base Exotic Fuels Storage Area), and is accessed by a partially paved road which heads north from Lancaster Boulevard. The entrance to the access road from Lancaster Boulevard is approximately 0.5 mile north of the intersection of Lancaster Boulevard and Forbes Avenue.

Building 4976 is currently used by the 6500th Security Police Squadron. Between approximately 1957 and 1985, it received extensive use as a photography laboratory.

While Building 4976 was in use as a photography laboratory, it contained satellite photography equipment and a Versamat for film processing. Large quantities of film were processed at the facility -- approximately one roll of film (reportedly 1,200 feet long) from satellite photography operations was developed each day. The Versamat contained two water tanks, two developer tanks, and two fixer tanks. The drains from the tanks were connected to a 2-inch pipe which discharged to the ground surface at the Photochemical Discharge Area (SWMU No. BW4976/1) east of the building (SF B-4970 to 4976).

Reportedly, silver was recovered from the solutions in the tanks before they were drained weekly to the Photochemical Discharge Area. The tanks were also drained when the developer was spent and required changing. A sodium bromide solution was used to clean the tanks, and was released through the same 2-inch pipe to the ground. During the laboratory's daily operations, there was reportedly a constant trickle of water, developer, and fixer through the drain pipe (SF B-4970 to 4976).

The SWMU at Building 4976 is shown in Figure 3-16 and described on the following page.



SWMU/AOC LOCATION (known unit, discrete location)

SWMU/AOC LOCATION (known unit, approx. limits)

SWMU/AOC LOCATION (suspected unit, estimated location)

UST LOCATION OF UST (known unit)

UST LOCATION OF UST (suspected unit)

R REMOVED UST

NORTH

0 100 200 FEET
SCALE

The Earth Technology Corporation

Project no.: 91-1006

BASE WIDE MISCELLANEOUS
ESI / RFA

Building 4976

9-93

Figure 3-16

EDWARDS\91100621\A0240MPB.A03

SWMU No. BW4976/1 Building 4976 Photochemical Discharge Area

INFORMATION SUMMARY: Site File B-4970 to 4976; Photo BW-47

LOCATION: Building 4976 is located in T10N, R10W in the southwestern quarter of Section 14. The Photochemical Discharge Area is located at the outfall of a drain pipe, and is approximately 50 feet east of the building. It extends down the hillside onto which the pipe drained.

SIZE: The drain pipe that formerly discharged to the unit is 2 inches in diameter. The affected area appears to be approximately 5 feet wide; the length is unknown, but the earthen channel associated with the outfall appears to extend downhill to the east for approximately 520 feet.

MATERIAL: The Photochemical Discharge Area consists of a shallow earthen channel. The drain pipe that discharged to the area is metal.

CONNECTIONS: The drain pipe that discharged to the unit was formerly connected to the Versamat film processor and floor drains inside Building 4976. The terminus of the channel formed by the unit was not determined during the VSI.

PURPOSE: The unit was used for the discharge of photochemicals (fixers, developers) and rinsewater, as well as the sodium bromide solution used to clean the Versamat's chemical tanks.

STARTUP: Approximately 1957. **DEACTIVATED:** 1985.

WASTES MANAGED: The unit managed waste photochemicals, including fixer, developer, and rinsewater from film developing operations, as well as sodium bromide solution from tank cleaning operations. The quantities of chemicals discharged are not known, but based on the amount of film developed (reportedly 1,200 feet daily), would have been significant. Silver was reportedly reclaimed from the solutions before discharge, but the remaining silver content of the solutions is unknown.

RELEASE CONTROLS: None; the unit is an unlined channel.

HISTORY OR EVIDENCE OF RELEASE: Based on anecdotal reports and the staining of the ground, wastes were released regularly to the unit.

VSI COMMENTS: The soils in the unit were stained black for some distance down the hillside. No vegetation was growing in the unit, in contrast to the area surrounding it.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high, based on the staining observed and anecdotal reports of release. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since the waste is not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit did not handle waste which might generate such gases.

RECOMMENDATION: Further investigation. Sample (PRL 257).

BUILDING 5500

Building 5500 is the Edwards AFB Hospital. It is located on Hospital Road west of Forbes Avenue. Military personnel and their dependents can receive a full range of medical care at this facility. The building is heated by a series of boilers that run on natural gas with fuel oil as a backup. According to anecdotal information, the Boiler Blowdown Flash Tank and Leach Field (SWMU No. BW5500/1) are designed to release boiler blowdown to the subsurface. A 6,200-gallon Abandoned UST (AOC No. BW5500/1) formerly supplied diesel fuel (fuel oil) for the boiler room. The UST was deactivated sometime in the 1980s, and replaced by two 8,000-gallon aboveground tanks. In August 1992, the UST was filled with concrete slurry and abandoned in place. A Sump (AOC No. BW5500/2) is associated with the aboveground tanks (SF B-5500).

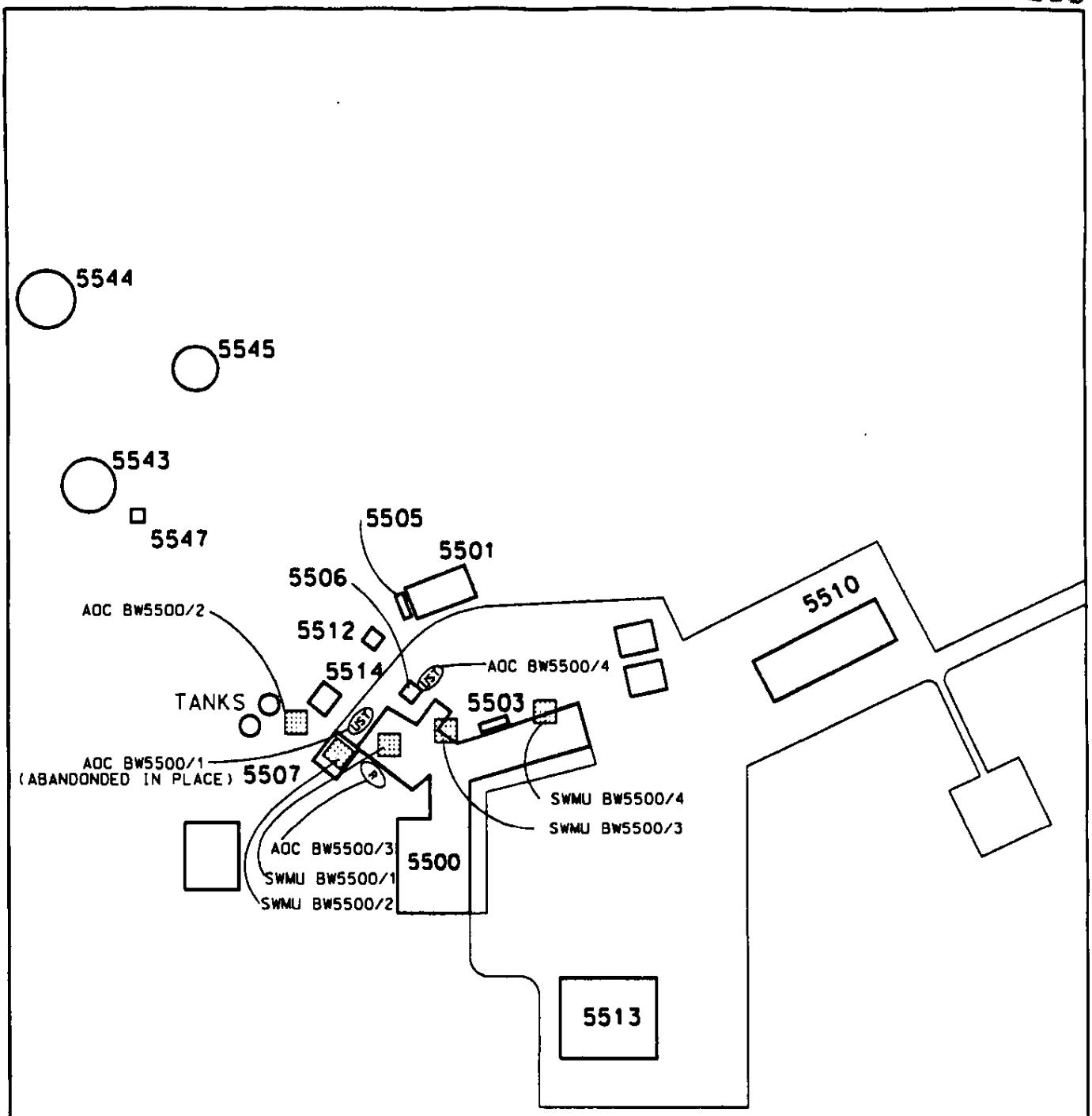
A 280-gallon Removed UST (AOC No. BW5500/3) was formerly located along the southern wall of the western wing of Building 5500. The tank was installed in 1954 and removed in 1988. It contained fuel oil or gasoline (SF B-5500; EAFB-D-79).

Building 5506 is a small generator building located just north of Building 5500. A 3,000-gallon Removed Diesel UST (AOC No. BW5500/4), installed in 1977, formerly supplied diesel fuel for the hospital's emergency generator. The UST was removed in February 1993 under the Base USTI program. A 1,000-gallon aboveground tank now stores fuel oil for the hospital's emergency generator (SF B-5500; EAFB-D-79).

Building 5507, on the northwest side of Building 5500, is an air conditioning plant for the hospital. The hospital's air conditioning system includes a cooling tower with a Satellite Accumulation Point (SWMU No. BW5500/2) that consists of a single 55-gallon drum (SF B-5500).

Wastes generated at the hospital include infectious (red bag) waste, spent X-ray film developer, and routine sanitary waste. Prior to 1984, infectious waste had been deposited in the Former Infectious Waste Incinerator (SWMU No. BW5500/3). The infectious waste is now deposited in the Infectious Waste Dumpsters (SWMU No. BW5500/4), from which it is picked up by a contractor (SF B-5500).

The SWMUs and AOCs associated with Building 5500 are shown in Figure 3-17 and described on the following pages.



The Earth Technology Corporation

Project no.: 91-1006

BASE WIDE MISCELLANEOUS ESI / RFA

Building 5500

9-93

Figure 3-17

EDWARDS\91100621\A024MPB.A03

SWMU No. BW5500/1 Building 5500 Boiler Blowdown Flash Tank and Leach Field

INFORMATION SUMMARY: Site File B-5500

LOCATION: The unit is located below the boiler room at Building 5500.

SIZE: According to a 1954 as-built drawing, the vertical Flash Tank is four feet long by 3 feet wide.

MATERIAL: The Flash Tank is constructed of cast iron.

CONNECTIONS: Boiler blowdown is released via piping to the subsurface Flash Tank, which in turn releases the wastewater to the Leach Field.

PURPOSE: The Flash Tank and Leach Field are used to dispose of boiler blowdown when boiler makeup water is changed.

START UP: 1954. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages wastewater from boilers, including boiler treatment chemicals such as Betz-Entec. It is unknown what water treatment chemicals were formerly used.

RELEASE CONTROLS: None; the unit is underground.

HISTORY OR EVIDENCE OF RELEASE: The system is designed to release boiler blowdown to the subsurface. The hospital's boiler room operates under a Kern County Air Pollution Control District Permit to Operate.

VSI COMMENTS: None; the unit is underground.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate since the system is designed to release blowdown to the subsurface.

Air - The potential for release to the atmosphere is low since blowdown is released underground.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the wastes managed are unlikely to degrade to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 258).

SWMU No. BW5500/2 Building 5500 Satellite Accumulation Point

INFORMATION SUMMARY: Site File B-5500

LOCATION: The unit is located in the utility room for the cooling tower at Building 5507.

SIZE: The unit consists of a 55-gallon drum.

MATERIAL: The drum is made of steel, and sits on a concrete floor.

CONNECTIONS: None.

PURPOSE: The drum is used to collect waste from lithium bromide tests.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages liquid waste from a colorometric test to determine the bromine content in the cooling water tower.

RELEASE CONTROLS: The metal drum is kept inside the utility room on a concrete floor.

HISTORY OR EVIDENCE OF RELEASE: None.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low, since the unit is indoors on a concrete floor.

Air - The potential for release to the atmosphere is low, since the drum containing wastes is covered.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit handles only inorganic wastes.

RECOMMENDATION: No further investigation.

SWMU No. BW5500/3 Building 5500 Former Infectious Waste Incinerator

INFORMATION SUMMARY: Site File B-5500

LOCATION: The unit was formerly located near the loading dock at Building 5500.

SIZE: Unknown.

MATERIAL: Unknown.

CONNECTIONS: Waste materials were fed by hand to the incinerator, which exhausted to the atmosphere.

PURPOSE: The unit was used for thermal treatment of infectious waste generated at the hospital.

START UP: Unknown. **DEACTIVATED:** 1984; removed 1988.

WASTES MANAGED: The unit managed infectious waste from the hospital and clinics on base.

RELEASE CONTROLS: Unknown.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: None, the unit has been removed.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the unit incinerated wastes and is now removed.

Air - The potential for release to the atmosphere is low since the system has been removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the system released gases to the atmosphere.

RECOMMENDATION: No further investigation.

SWMU No. BW5500/4 Building 5500 Infectious Waste Dumpsters

INFORMATION SUMMARY: Site File B-5500; Photo BW-98

LOCATION: The unit is located on the northern side of the eastern wing of Building 5500.

SIZE: The unit consists of six dumpsters, each approximately 5 feet by 4 feet by 4 feet.

MATERIAL: The units are constructed of metal.

CONNECTIONS: None.

PURPOSE: The dumpsters are used to store red bag waste until the disposal contractor picks it up (three times per week).

START UP: 1984. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages infectious waste.

RELEASE CONTROLS: Wastes are disposed in red, heavy-plastic bags. Dumpster lids remain closed.

HISTORY OR EVIDENCE OF RELEASE: None.

VSI COMMENTS: The contractor reportedly steam cleans the dumpsters on site.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the waste is contained in metal containers.

Air - The potential for release to the atmosphere is low since the wastes are contained in heavy plastic bags.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the wastes are placed in aboveground dumpsters.

RECOMMENDATION: No further investigation.

AOC No. BW5500/1 **Building 5500 Abandoned UST**

INFORMATION SUMMARY: Site File B-5500; Document EAFB-D-79

LOCATION: The unit (Tank No. M077) is located on the northwestern side of Building 5500. The concrete manhole to the tank is 25.5 feet north of Building 5500 and 18.5 feet east of Building 5507.

SIZE: The UST is 18 feet in length and has a diameter of 7.5 feet. The capacity of the tank was calculated to be 6,000 gallons.

PROBABLE WASTES: The tank stored diesel fuel for the hospital's boiler room.

CONCERN: The steel tank was installed in 1954 and is inside a concrete vault. In August 1992, the tank was filled with a concrete slurry and abandoned in place rather than removed, due to the number of utility lines in the area. At the time of abandonment, the tank was found to be partially filled with concrete, indicating a previous abandonment effort. No soil samples were obtained.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since the integrity of the unit while in use is unknown. The current potential is low since the tank has been abandoned in place.

Air - The potential for release to the atmosphere is low, since the UST is underground and has been abandoned in place.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of diesel fuel is not likely to generate significant quantities of methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 258).

AOC No. BW5500/2 Building 5500 Sump

INFORMATION SUMMARY: Site File B-5500; Photo BW-99; Earth Technology (1988)

LOCATION: The unit is located approximately 100 feet northwest of Building 5500, at the location of two aboveground tanks that provide backup fuel for the hospital's boilers.

SIZE: The unit is 2 feet by 2 feet by 2 feet deep, and the area of stained soils surrounding the unit is approximately 10 square feet.

PROBABLE WASTES: The Sump collects fuel oil released from the aboveground tanks.

CONCERN: At the time of the VSI in March 1991, standing fuel oil was observed in the Sump. The soil surrounding the unit was heavily stained. This same condition was noted during a 1988 audit.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high, based on the visual evidence of heavily stained soils surrounding the unit.

Air - The potential for release to the atmosphere is moderate, because volatiles may vaporize from the heavily stained soil.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of heating oil is not likely to generate significant quantities of methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 258).

AOC No. BW5500/3 **Building 5500 Removed UST**

INFORMATION SUMMARY: Site File B-5500; Document EAFB-D-79

LOCATION: The unit (Tank No. M078) was located outside the southern wall of the western wing of Building 5500.

SIZE: According to 1954 and 1967 as-built drawings, the unit had a capacity of 280 gallons.

PROBABLE WASTES: The unit was originally used to store gasoline for the hospital's boilers. In 1967, the UST was emptied of gasoline and filled with diesel.

CONCERN: The steel tank was installed in 1954 and removed in 1988. Earth Technology is not aware of any soil samples that were taken at the time of tank removal.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the integrity of the unit while in use is unknown. The current potential for release is low since the unit was removed in 1988.

Air - The potential for release to the atmosphere is low since the unit was underground and is now removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since degradation of gasoline and diesel is not likely to generate significant quantities of methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 258).

AOC No. BW5500/4 Building 5500 Removed UST

INFORMATION SUMMARY: Site File B-5500; Document EAFB-D-79

LOCATION: The unit (Tank No. M037) was located adjacent to the northeastern corner of Building 5506.

SIZE: The unit had a capacity of 3,000 gallons.

PROBABLE WASTES: Until the early 1990s, the unit stored diesel fuel for the hospital's emergency generator.

CONCERN: The steel tank was installed in 1977. It was deactivated in the early 1990s, removed in February 1993, and has been replaced by an aboveground storage tank. At the time of tank removal soil samples were collected, however, preliminary analytical results are not yet available.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the unit is unknown. The current potential is low since the unit has been removed.

Air - The potential for release to the atmosphere is low since the unit was underground.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since degradation of diesel fuel is unlikely to produce significant quantities of methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 258).

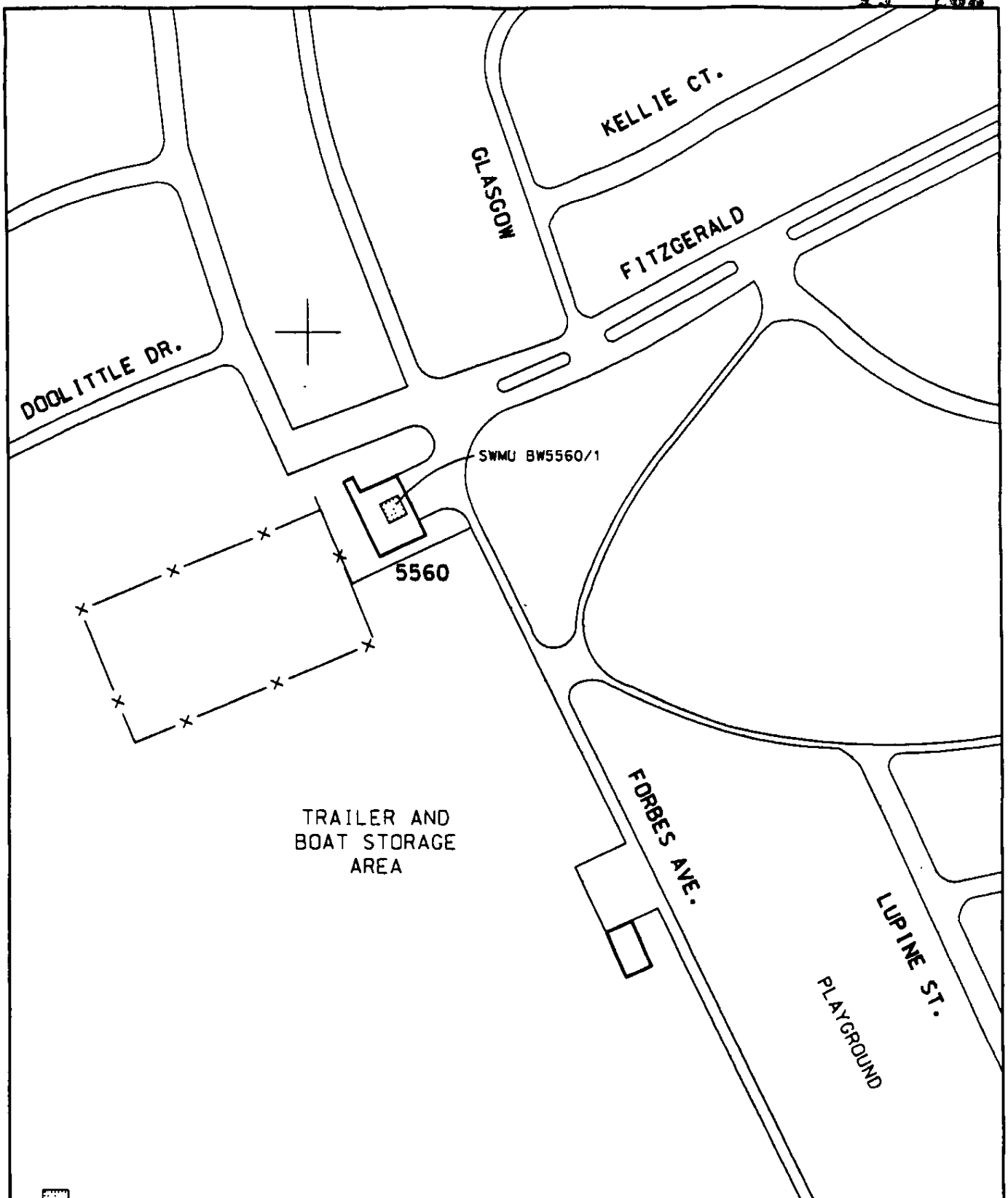
BUILDING 5560

Building 5560 is Fire Station No. 2, located on Forbes Avenue near the housing facilities on the Main Base. The station has operated from this location since the early 1950s. The building has office space and also houses several fire response vehicles. No major vehicle maintenance takes place in the garage bay area (SF B-5560).

Building 5560 is equipped with a wash rack. Rinsewater from the wash rack is discharged to a drain that connects to an Oil/Water Separator (SWMU No. BW5560/1) and eventually to the main sewer line. There have been no incidents in the past that would suggest a hazardous release potential (SF B-5560).

The Fire Station manages one flammable locker containing product material of acrylics, wood finish and spray paints (Photo BW-96) (SF B-5560).

The SWMU identified at Building 5560 is presented in Figure 3-18 and described on the following page.



SWMU/AOC LOCATION (known unit, discrete location)

SWMU/AOC LOCATION (known unit, approx. limits)

SWMU/AOC LOCATION (suspected unit, estimated location)

UST LOCATION OF UST (known unit)

UST LOCATION OF UST (suspected unit)

R REMOVED UST

NORTH

0 100 200 FEET
SCALE

The Earth Technology Corporation

Project no.: 91-1006

BASE WIDE MISCELLANEOUS
ESI / RFA

Building 5560

9-93

Figure 3-18

EDWARDS\9110062T\A0242MPB.A03

SWMU No. BW5560/1 Building 5560 Oil/Water Separator

INFORMATION SUMMARY: Site File B-5560; Photo BW-97

LOCATION: The unit is located inside the garage bay area of Building 5560.

SIZE: The unit is 3 feet by 2 feet, with an unknown depth.

MATERIAL: The unit is constructed of concrete and has a metal cover.

CONNECTIONS: Waste oil in rinsewater drained from the wash rack is retained in the unit until it is disposed by AFFTC/EM. Water drains into the main sewer line.

PURPOSE: The purpose of the unit is to separate waste POL from the wastewater.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: Motor oil, lube oil, and grease are likely managed by the unit.

RELEASE CONTROLS: The unit is flush with the ground surface and is covered with a metal plate.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release associated with this unit.

VSI COMMENTS: The area surrounding the unit appeared clean and not stained.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the unit is unknown.

Air - The potential for release to the atmosphere is low since the unit is covered.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since waste oils are not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Check unit integrity.

BUILDING 5613

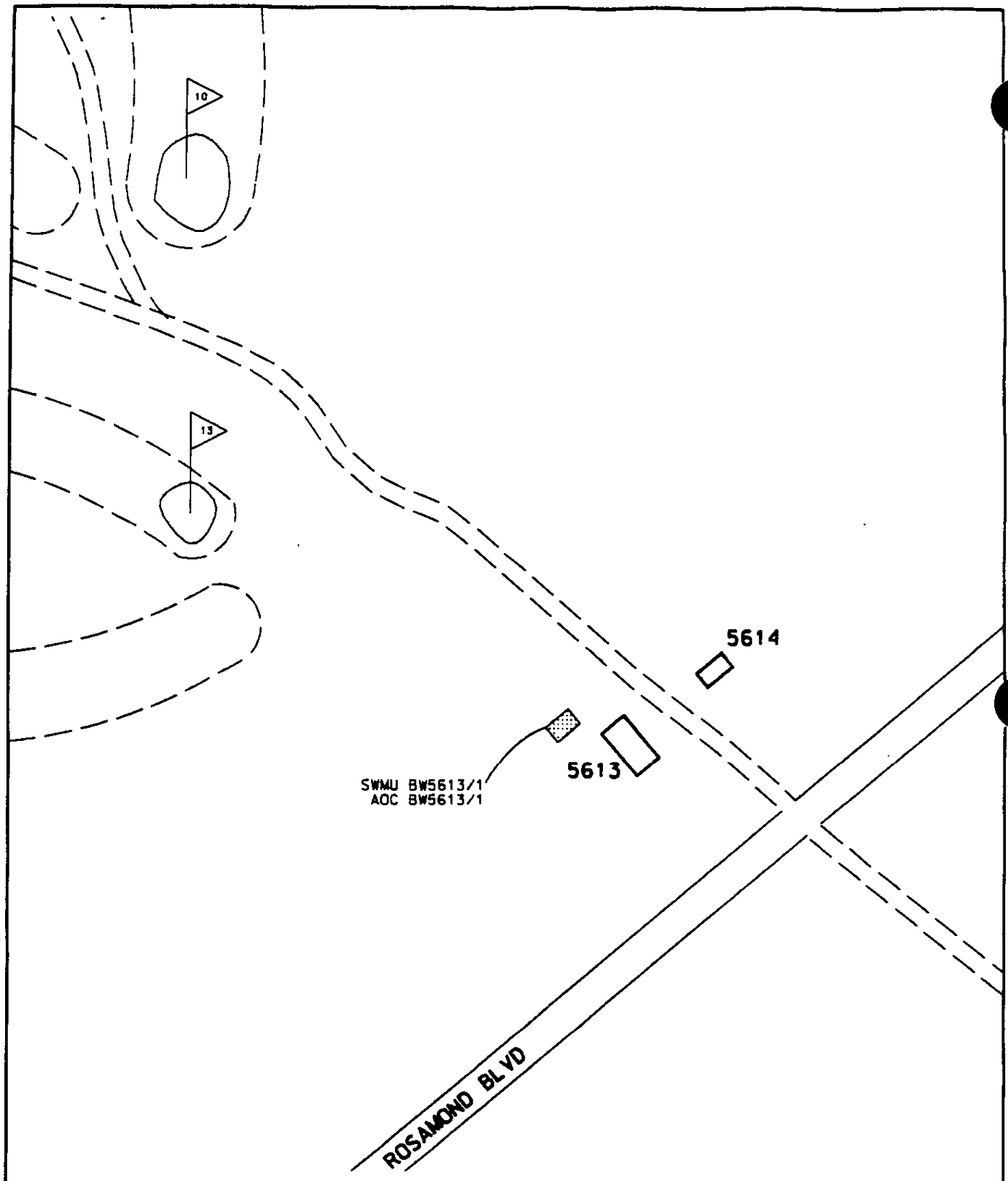
Building 5613, located approximately 150 feet northwest of Rosamond Boulevard is the maintenance facility for the golf course, which is operated by Morale, Welfare and Recreation (MWR). The golf course has operated for at least 30 years. The building was transferred in 1955 to the Main Base from the Phillips Laboratory. A concrete pad was constructed to accommodate the structure. Personnel in this facility are tasked with maintaining all equipment and grounds encompassing the golf course. The building includes office space and a large garage bay area (SF B-5613).

Several small vehicles are parked inside the garage, but vehicle maintenance is not performed here. There is a small work bench where minor repairs on tools are made. One nonflammable locker measuring 5 feet by 4 feet by 4 feet contains such items as cement, auto fluid, and paints. The garage area has one floor drain, which is not used (SF B-5613).

To the northwest of Building 5613 is a storage yard, in an area between the building and the golf course. The fenced storage yard is on unpaved ground and contains an Accumulation Point (SWMU No. BW5613/1) that consists of three 55-gallon drums of waste oil and some waste paint containers. A wire mesh storage bin, which sits approximately 2 feet above the ground, contains product materials of lube oil and motor oil. Adjacent to the bin is a 55-gallon Product Oil Drum (AOC No. BW5613/1) containing lube oil. There are also maintenance vehicles parked in the storage yard (SF B-5613).

Building 5614, located east of Building 5613, also falls under the jurisdiction of the MWR. Equipment not in use on a daily basis is stored in this facility. Fertilizers and grass seed are also stored in this building. The facility appears to be well managed and there is no sign of staining on the concrete.

The SWMU and AOC associated with Building 5613 are presented in Figure 3-19 and described on the following pages.



SWMU/AOC LOCATION (known unit, discrete location)

SWMU/AOC LOCATION (known unit, approx. limits)

SWMU/AOC LOCATION (suspected unit, estimated location)

UST LOCATION OF UST (known unit)

UST LOCATION OF UST (suspected unit)

R REMOVED UST

NORTH

0 100 200 FEET
SCALE

The Earth Technology Corporation

Project no.: 91-1006

BASE WIDE MISCELLANEOUS ESI / RFA

Building 5613

9-93

Figure 3-19

EDWARDS\9110062T\A0243MPB.AI3

SWMU No. BW5613/1 Building 5613 Accumulation Point

INFORMATION SUMMARY: Site File B-5613; Photo BW-13 to BW-16

LOCATION: The 90-day unit is located within the fenced storage area on the northwestern side of Building 5613.

SIZE: The unit occupies an area of approximately 100 square feet.

MATERIAL: The unit consists of three 55-gallon drums and several empty paint cans stored on a wooden pallet, on unpaved ground.

CONNECTIONS: None.

PURPOSE: The unit is used to store wastes generated in Building 5613.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages waste lube oil and motor oil.

RELEASE CONTROLS: None; the drums are sitting on bare ground and do not have drip pans.

HISTORY OR EVIDENCE OF RELEASE: Based on staining observed in the surrounding area, releases have occurred. According to the facility manager, the waste drums may have never been picked up by AFFTC/EM.

VSI COMMENTS: The ground surface around the entire storage yard appeared stained and in some places saturated.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high, based on the staining surrounding the unit.

Air - The potential for release to the atmosphere is moderate, since surface soils may be contaminated with volatile organics.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since waste oils are not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 259).

AOC No. BW5613/1 **Building 5613 Product Oil Drum**

INFORMATION SUMMARY: Site File B-5613

LOCATION: The unit is located within the fenced storage yard on the northwestern side of Building 5613.

SIZE: The 55-gallon drum occupies an area of approximately 15 square feet.

PROBABLE WASTES: The unit handles product lubricating oil.

CONCERN: There is a drip pan under the drum's spigot; however, the surrounding unpaved ground is stained. The drum itself appears to be corroding and the drip pan does not appear to contain all releases.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high, based on the stained soils surrounding the unit.

Air - The potential for release to the atmosphere is moderate, since surface soils may be contaminated with volatile organics.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low, since waste oils are not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 259).

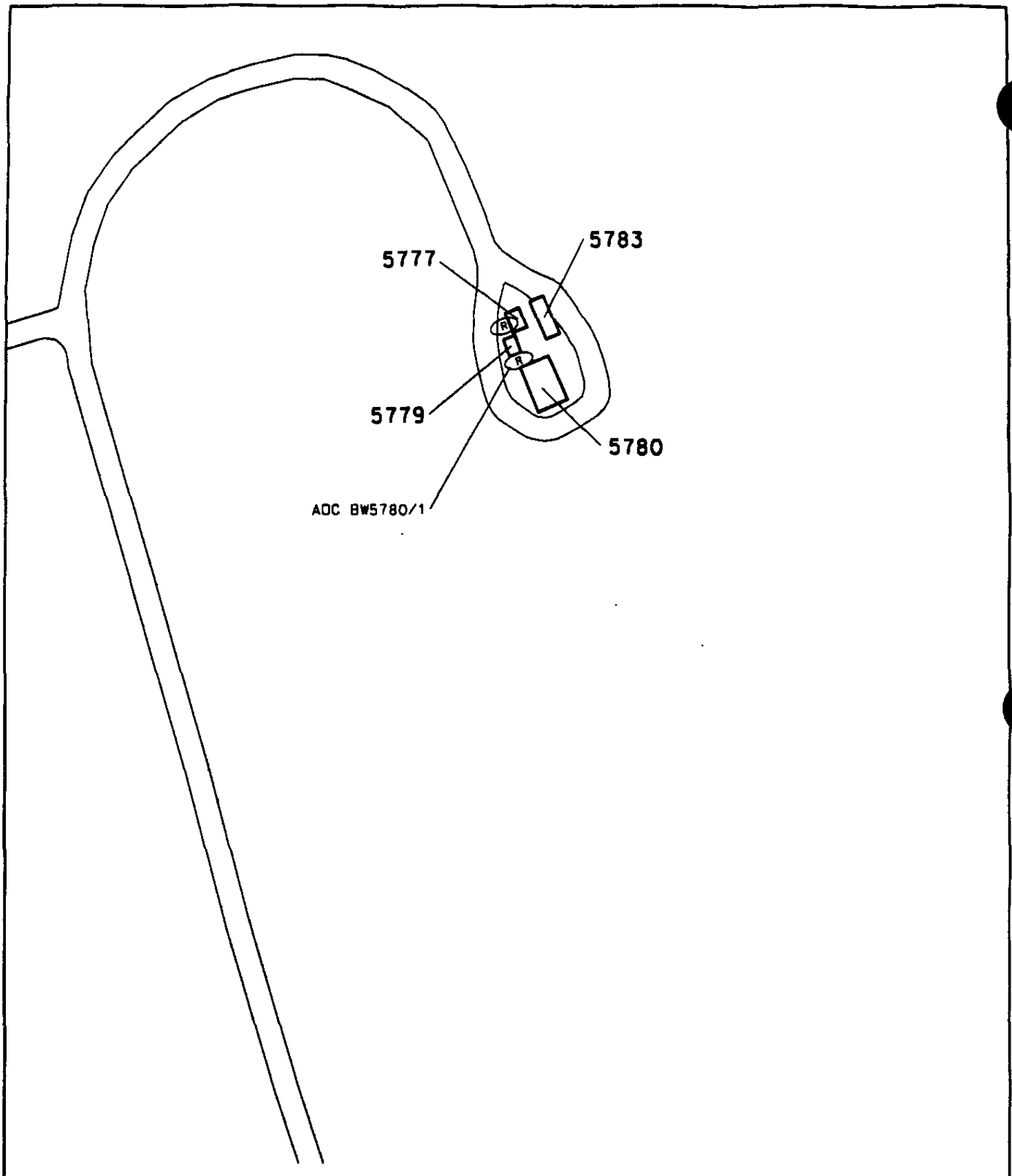
BUILDING 5780

Building 5780 is located about 5 miles west of the intersection of Rosamond and Lancaster boulevards in the western region of Edwards AFB, at T9N, R11W, in Section 12. It is accessed by a road that leads north from Rosamond Boulevard, just east of the main gate to the base. The facility is a microwave and control station run by the contractor Computer Sciences Corporation (CSC). It was reportedly built in the 1950s and originally run by the Air Force as a radar site. CSC took over operations in 1983 from a previous contractor. The building contains offices, storage space, a small maintenance/repair shop, and electronic equipment. There are no hydraulic systems associated with the microwave equipment. Small amounts of alcohol are used to clean tape heads; any waste evaporates (SF B-5780/5790).

There is a leach field and septic tank on the southern side of Building 5780. North of the building are two small structures: Building 5777, which is used for storage, and Building 5779, which contains an emergency generator. A 500-gallon UST (Tank No. M053), which contained diesel used to fuel the generator, was formerly located approximately 8 feet north of Building 5779. The UST was removed in July 1992. Three soil samples were collected, from depths of 2 feet and 4 feet below the bottom of the tank (9 feet and 11 feet below grade). The samples were analyzed for diesel, jet fuel and BTEX; no contaminants were detected. North of Building 5777 is a 1,000-gallon AGT, formerly used for fueling vehicles (SF B-5780/5790; EAFB-D-97).

At the northwest corner of Building 5780 is the location of a Removed UST (AOC No. BW5780/1) that was used for storing heating oil. When the 550-gallon tank was removed in May 1991 holes were observed in the tank bottom. A soil sample obtained at 0.1 foot below the base of the tank was found to have diesel fuel contamination (SF B-5780/5790; Earth Technology, 1992a).

The AOC associated with Building 5780 is shown in Figure 3-20 and described on the following page.



SWMU/AOC LOCATION (known unit, discrete location)

SWMU/AOC LOCATION (known unit, approx. limits)

SWMU/AOC LOCATION (suspected unit, estimated location)

UST LOCATION OF UST (known unit)

UST LOCATION OF UST (suspected unit)

R REMOVED UST

NORTH

0 100 200 FEET
SCALE

The Earth Technology Corporation

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BASE WIDE MISCELLANEOUS ESI / RFA

Building 5780

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Figure 3-20

EDWARDS\91100621\A0244MPB.AQJ

AOC No. BW5780/1 Building 5780 Removed UST

INFORMATION SUMMARY: Site File B-5780/5790; Earth Technology (1992a); Document EAFB-D-114

LOCATION: The unit (Tank No. M039) was located approximately 12 feet from the northwestern corner of Building 5780.

SIZE: The capacity of the unit was 550 gallons.

PROBABLE WASTES: The unit was used to supply fuel oil for the building's boiler room.

CONCERN: The unit was installed around 1961 and was constructed of single-walled steel. It was under soil cover. The tank passed an integrity system test in September 1990. The tank, product and vent pipelines were removed in May 1991 and the product pipeline was disconnected through the building wall at the shut-off valve. At the time of tank removal, holes were observed up to 1/4 inch diameter in the tank bottom. Soils adjacent to the tank appeared discolored and smelled strongly of hydrocarbons. A single soil sample was obtained from 0.1 foot below the tank bottom (6.5 feet below grade) and analyzed for diesel fuel (LUFT method) and BTEX (EPA Method 8020). The following concentrations of contaminants were found: 3,631 mg/kg diesel, 1.0 mg/kg toluene, 2.8 mg/kg xylenes, and 1.017 mg/kg ethylbenzene.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high, based on the results of the soil analysis reported above. The current potential for release is low, since the unit was removed.

Air - The potential for release to the atmosphere is low since the contaminated soil is underground.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gas were not handled.

RECOMMENDATION: Further investigation. Sample (Site 260).

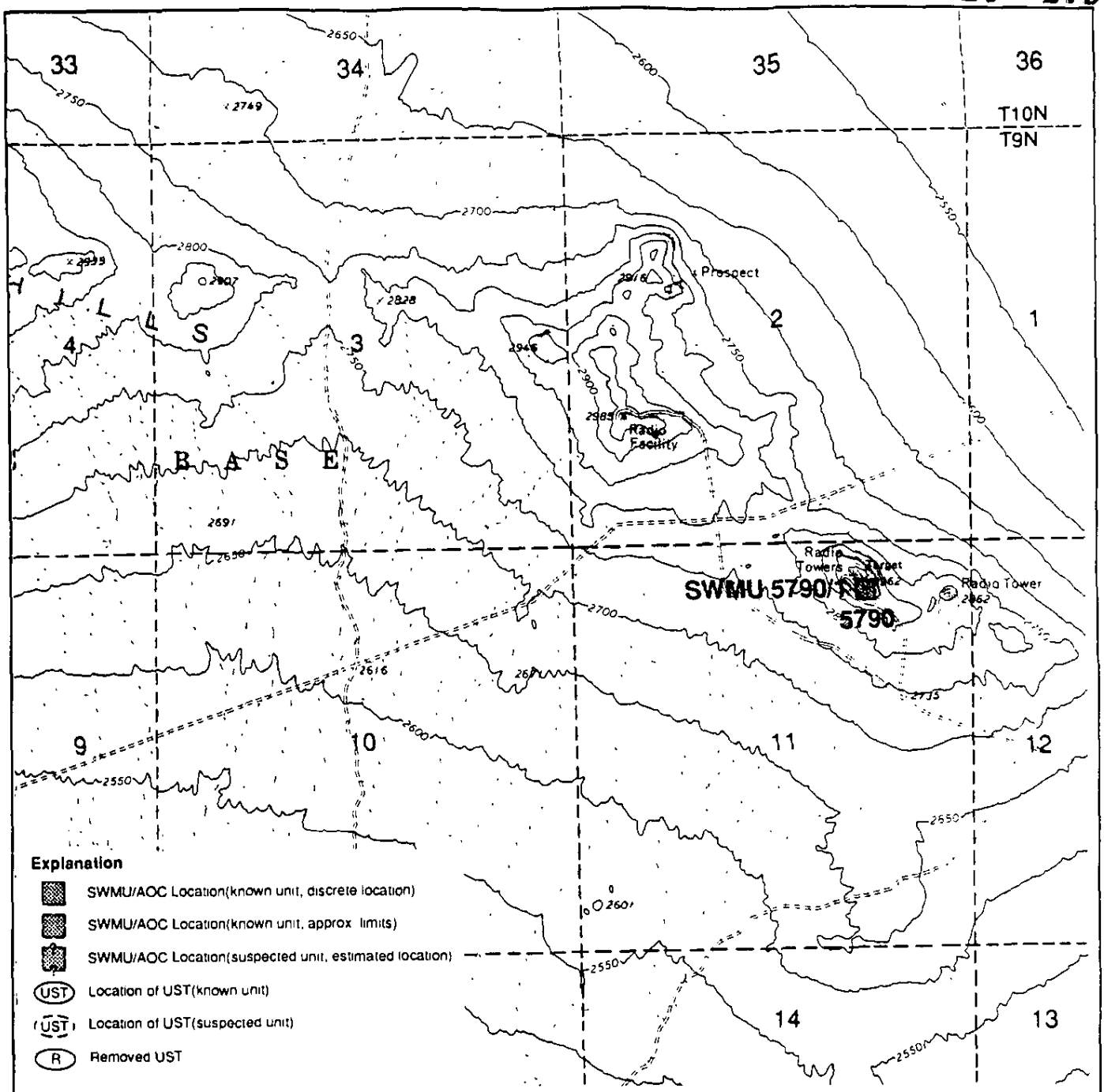
BUILDING 5790

Building 5790 is a telemetry station built in 1967. It is located about 5 miles west of the intersection of Rosamond and Lancaster boulevards in the western portion of Edwards AFB. The facility is situated atop the southeastern terminus of the Rosamond Hills at T9N, R11W, in Section 11. The facility is about 1.3 miles northwest of Building 5780, on the same access road, and is also run by the contractor CSC. Alcohol is used as a cleaning agent in maintaining the numerous pieces of electronic equipment. Any waste generated evaporates (SF B-5780/5790).

The building contains an emergency generator, with an adjacent, outdoor AGT that contains fuel for the generator. Real property records show that a 150-gallon UST was installed under the generator room around 1969. However, personnel at the facility reported that the UST was never installed (SF B-5780/5790; IT Corporation, 1990).

The facility's Septic System (SWMU No. BW5790/1) has an evaporation pond, which has been identified as IRP PRL 28. There may also be a leach field associated with the system. In the past, POL and solvents may have been discharged to the generator room floor drain which drains to the Septic System. Reportedly, when repair work was performed on the generator in 1987, fuel was released and drained from the generator room floor drain to the Septic System, "killing" the digestive organisms. A 6-inch sewer line extends from the septic tank on the west side of the building, downslope and southwest to the evaporation pond. The evaporation pond is located about midway down the slope from Building 5790 (a drop in elevation of about 90 feet) and was constructed using a clay berm. No previous investigations have been conducted at IRP PRL 28 (Earth Technology 1991b; IT Corporation, 1990).

The Septic System is shown in Figure 3-21 and described on the following page.



Source: Base map from U.S.G.S. Edwards, CA and Bissell, CA Quadrangles, 1973.

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Base-Wide Miscellaneous ESI/RFA

Building 5790

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Figure 3-21

SWMU No. BW5790/1 Building 5790 Septic System

INFORMATION SUMMARY: Site File B-5780/5790; Photos BW-108 and BW-109; Earth Technology (1991b)

LOCATION: The Septic System consists of a septic tank on the western side of Building 5790, and an evaporation pond downslope to the southwest (an elevation drop of about 90 feet). They are connected by an underground 6-inch sewer line. One source (IT Corporation, 1990) suggests that a leach field may extend the length of the sewer line, no more than 30 inches beneath the sloping ground surface. No leach field is shown on engineering plans.

SIZE: The septic tank is approximately 7 feet long, 3 feet wide, and 6 feet deep. The 6-inch sewer line is several hundred feet long, and the evaporation pond measures about 30 feet square, with a depth of about 8 feet.

MATERIAL: The septic tank is concrete, the sewer pipe is probably vitrified clay, and the evaporation pond is dug into the hillside with a clay berm on its downslope side. The pond is unlined.

CONNECTIONS: The septic tank is connected to the floor drain in the generator room of Building 5790, and to sanitary facilities. The septic tank discharges via the sewer pipe to the evaporation pond. A leach field may also be connected to the system. A 6-inch pipe discharges potential overflow from the pond downslope.

PURPOSE: The septic system is used to treat wastewater from Building 5790. In the past it apparently managed hazardous wastes and constituents discharged to a floor drain in the building's generator room. The evaporation pond has been identified as IRP PRL 28.

START UP: Late 1960s. **DEACTIVATED:** Currently active.

WASTES MANAGED: In addition to domestic sewage, the unit may have managed industrial wastes including antifreeze, lubrication oil, diesel fuel, and solvents (including TCE) that were poured into the generator room floor drain.

RELEASE CONTROLS: There are no known release controls.

HISTORY OR EVIDENCE OF RELEASE: In one incident, when repair work was performed on the generator in 1987, fuel was reportedly released and drained from the generator room floor drain to the Septic System, killing the digestive organisms. During the summer months, odors from the septic tank are reportedly sometimes severe enough to require temporary abandonment of Building 5790.

VSI COMMENTS: The septic tank could not be seen. Lush vegetation was growing around the edges of the pond, and there was evidence of use by animals.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate based on anecdotal reports that hazardous waste and constituents have been disposed to the system. The current potential for release is low since hazardous wastes are no longer discharged to the system.

Air - The potential for release to the atmosphere is low since volatile wastes are not currently handled by the unit.

Subsurface Gas - The potential for generation of subsurface gas (methane) is high since gaseous odors reportedly necessitate the periodic abandonment of the building during the summer months.

RECOMMENDATION: Further investigation. Sample (PRL 28).

BUILDING 6691

Building 6691 is a contractor-run housing maintenance office. At the time of the VSI in May 1991, All Star Maintenance, Inc. had been the contractor since 1986, having replaced Consolidated Marketing Services. Deljen Housing Maintenance replaced All Star Maintenance in January 1992, and is under a 5-year contract, renewable each year (SF B-6691; EAFB-D-85).

Several facilities are located in the housing maintenance compound, located east of Forbes Avenue and south of Payne Avenue. Building 6691 houses the administrative offices and a shop area, where glass-cutting, screen building, and carpentry are performed. Building 6692 is used to store new appliances and parts; housing residents can obtain parts directly from the "U-Fix-It" store at Building 6692. Building 6694 is used to store plumbing pipes, fittings and old appliances, many of which are resold by DRMO (SF B-6691; EAFB-D-85).

The housing maintenance contractor is responsible for maintaining over 2,000 houses on base; refurbishing houses between occupancy; and maintaining playgrounds. The contractor also maintains the natural gas lines and sewer lines leading from each house to the main utility lines, which are maintained by the Air Force (SF B-6691; EAFB-D-85).

Potentially hazardous materials used in housing maintenance include paints (mostly latex-based for interior painting), varnishes, bleach, and other household cleansers. According to All Star Maintenance, an estimated 2,000 gallons of paint are used per year to cover approximately 1.2 million square feet of indoor surface. Product paint cans are stored inside Building 6693; empty paint cans are allowed to air dry outside the building and are then landfilled (SF B-6691; EAFB-D-85).

A subcontractor is hired to refinish floors. Under All Star Maintenance, an estimated 50 gallons of polyurethane varnish was used per year to varnish one floor every 2 to 3 months. The empty varnish cans were wiped dry and disposed in the dumpster (SF B-6691; EAFB-D-85).

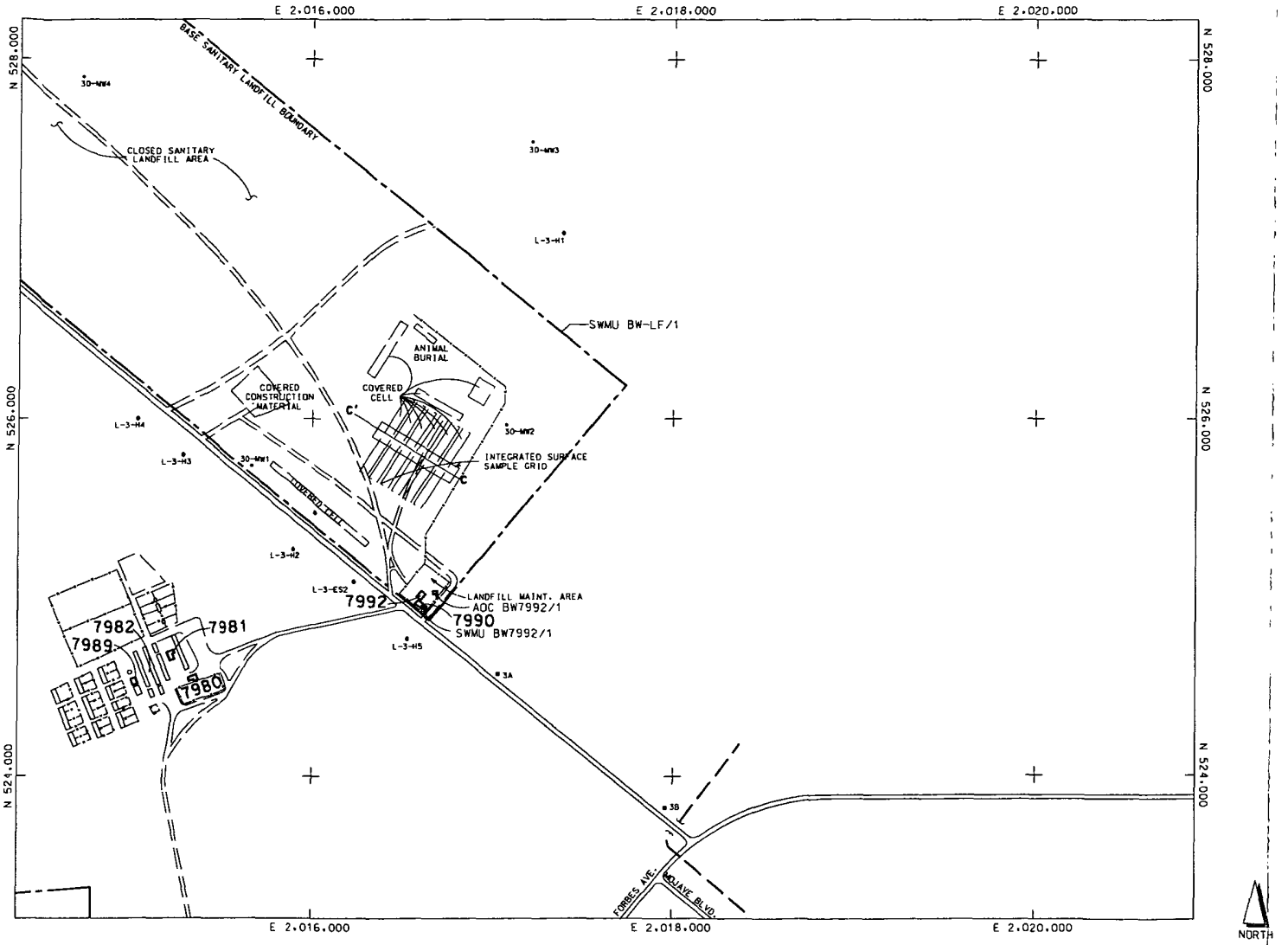
A 250-gallon AGT of unleaded gasoline used by All Star Maintenance to fuel vehicles has been removed. Deljen installed a 550-gallon AGT of unleaded gasoline. The tank is surrounded by a concrete berm and is inside a locked, chain-link fence. The gasoline pump is also kept locked (SF B-6691; EAFB-D-85).

No SWMUs or AOCs were identified at Buildings 6691 through 6694.

BUILDING 7992

Building 7992 is the operations center for the base trash hauler. The facility is located approximately 2,000 feet northwest of the intersection of Mojave Boulevard and Forbes Avenue, on a section of the Main Base Inactive Sanitary Landfill (SWMU No. BW-LF/1). At the time of the VSI, the fenced, locked compound could not be entered. Within the compound are three Aboveground Storage Tanks (AOC No. BW7992/1), with estimated capacities of 500 gallons each. The tanks are believed to contain vehicle fuel. There is also a concrete pad, reportedly used to steam-clean trash-hauling vehicles. Adjacent to the pad is what appears to be an Oil/Water Separator (SWMU No. BW7992/1) (SF B-7992).

The SWMU and AOC associated with this building are presented in Figure 3-22 and described on the following pages.



The Earth Technology Corporation

Project no.: 91-1006
Base-Wide Miscellaneous ESI/RFA

Building 7992 and Main Base Inactive Sanitary Landfill

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Figure 3-22

EDWARDS\91100621\A0246MPB.A03

SWMU No. BW7992/1 Building 7992 Oil/Water Separator

INFORMATION SUMMARY: Site File B-7992

LOCATION: The unit is located in the southern corner of the trash hauler's compound. The compound is located approximately 2,000 feet northwest of the intersection of Mojave Boulevard and Forbes Avenue, on a section of the Main Base Inactive Sanitary Landfill (SWMU No. BW-LF/1).

SIZE: Unknown.

MATERIAL: Unknown.

CONNECTIONS: The unit is apparently connected to the concrete wash pad, and appears to drain to the adjacent ground surface.

PURPOSE: The unit is used to separate POL from washwater generated in vehicle washing operations.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages waste POL.

RELEASE CONTROLS: The unit has a cover.

HISTORY OR EVIDENCE OF RELEASE: Based on staining observed in the area, the unit has apparently released to surrounding soils.

VSI COMMENTS: The soils along the fenceline just southeast of the discharge from the Oil/Water Separator were stained black.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high based on the staining in the area.

Air - The potential for release to the atmosphere is moderate since potentially volatile wastes are exposed to the atmosphere.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Sample (PRL 261).

AOC No. BW7992/1 **Building 7992 Aboveground Storage Tanks**

INFORMATION SUMMARY: Site File B-7992

LOCATION: The unit is located within the trash hauler's compound along its southeastern fence. The compound is located approximately 2,000 feet northwest of the intersection of Mojave Boulevard and Forbes Avenue, on a section of the Main Base Inactive Sanitary Landfill (SWMU No. BW-LF/1).

SIZE: The unit consists of three aboveground tanks on storage racks; the tank capacities are estimated to be 500 gallons each.

PROBABLE WASTES: The Aboveground Storage Tanks are believed to contain vehicle fuel; the exact type was not determined.

CONCERN: The soil beneath the tanks was heavily stained, apparently from releases from the tanks.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high based on the staining observed on soils at the unit.

Air - The potential for release to the atmosphere is moderate since potentially volatile wastes are exposed to the air.

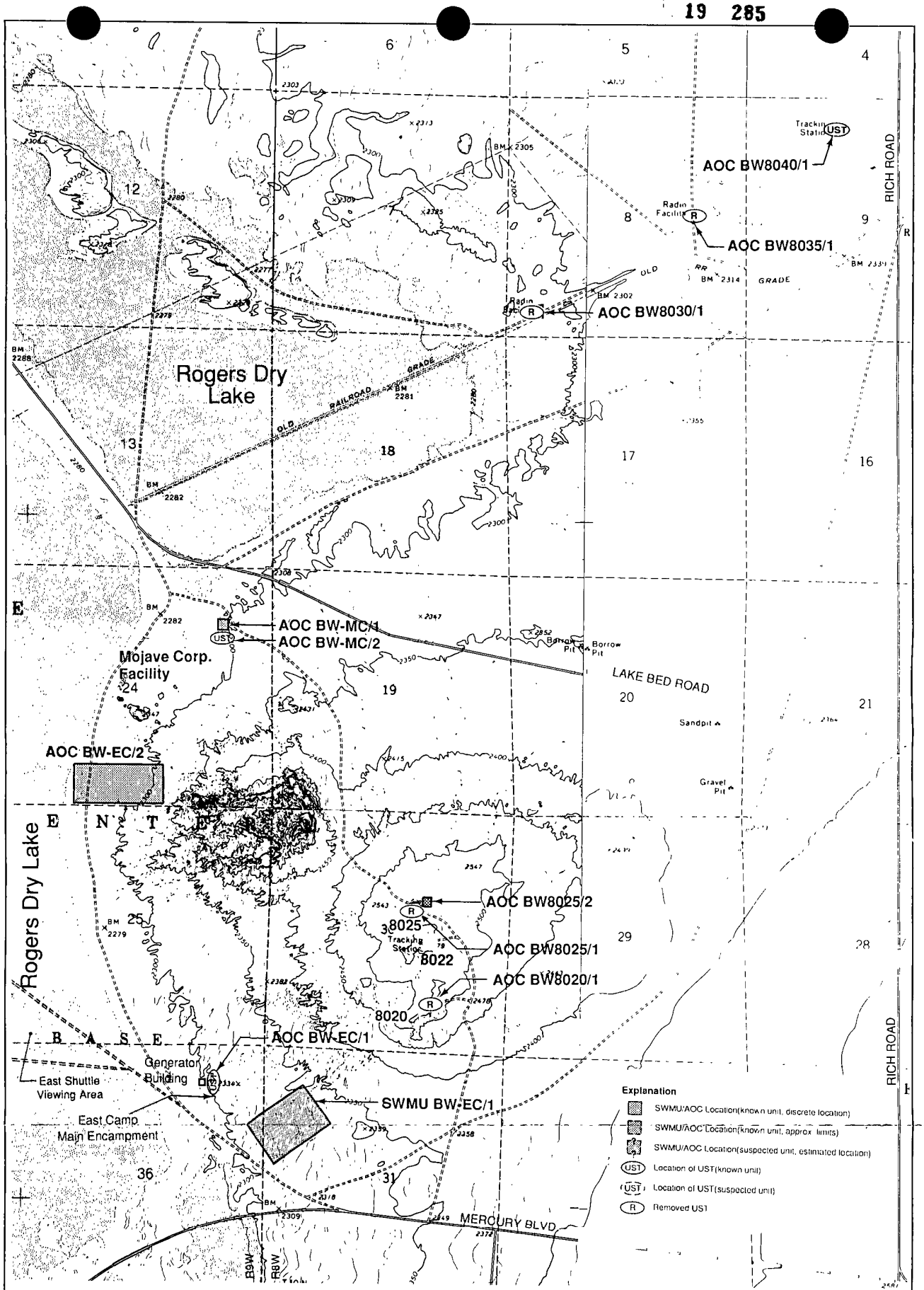
Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Sample (PRL 261).

BUILDING 8020

Building 8020 is an abandoned facility formerly used by the Federal Aviation Administration (FAA). It is the southernmost of a group of small facilities (Buildings 8020, 8022, and 8025) located atop the hills bordering the east side of Rogers Dry Lake, at T10N, R8W, in Section 30. The building is approximately 1 mile north of Mercury Boulevard, on the western side of a dirt access road. The access road intersects Mercury Boulevard approximately 0.4 mile east of the junction of Mercury Boulevard and the road to the east shuttle viewing area (SF B-8020/8025).

Building 8020, estimated to have been built in the early 1950s, is a cinderblock structure that was used as a communications facility until it was abandoned, reportedly around 1967. The building had an emergency diesel generator which was supplied by a now Removed UST (AOC No. BW8020/1) located on the southern side of the building. The AOC at Building 8020 is described on the following page and shown in Figure 3-23 (SF B-8020/8025).



Key Map

North

0 1/2 1 Mile

Scale

Source: Base map from U.S.G.S. Leuhman Ridge, CA and Rogers Lake North, CA Quadrangles, 1973.

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Base-Wide Miscellaneous ESI/RFA

Buildings 8020 to 8040; East Camp; and Former Mojave Corporation Facility

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AOC No. BW8020/1 Building 8020 Removed UST

INFORMATION SUMMARY: Site File B-8020/8025; Document EAFB-D-97; Photo BW-39

LOCATION: The Abandoned UST (Tank No. P066) was located approximately 10 feet from the southern side of Building 8020. The fill pipe for the unit is located under a 6-inch-diameter metal cover that is flush with the ground surface and is labeled "water."

SIZE: The unit had a capacity of 280 gallons.

PROBABLE WASTES: The unit was used to store diesel fuel.

CONCERN: The unit was probably installed when Building 8020 was constructed, reportedly in the early 1950s. It was used to supply an emergency generator inside the building. The unit was deactivated around 1967, but was apparently not properly abandoned, and liquid was visible when the fill pipe's cap was removed in 1992. The tank was removed in January 1993. At the time of tank removal, one soil sample was collected from beneath the tank, 7 feet below grade. The soil sample was analyzed for LUFT diesel and jet fuel fractions, and BTEX (EPA Method 8020). No contaminants were detected.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since no contaminants were detected at the time of the tank removal.

Air - The potential for release to the atmosphere is low since the unit has been removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit has been removed.

RECOMMENDATION: Further investigation. Sample (PRL 262).

BUILDING 8025

Building 8025 is an abandoned facility formerly used by the FAA. It is the northernmost of a group of small facilities located atop the hills bordering the eastern side of Rogers Dry Lake, at T10N, R8W, in Section 30. The building is approximately 1.5 miles north of Mercury Boulevard, on the western side of a dirt access road. The access road intersects Mercury Boulevard approximately 0.4 mile east of the junction of Mercury Boulevard and the road to the east shuttle viewing area (SF B-8020/8025).

Building 8025, estimated to have been built in the early 1960s, is a cinderblock structure that was used as a communications facility until it was abandoned, reportedly around 1967. The building had an emergency diesel generator which was supplied by a now Removed UST (AOC No. BW8025/1) located on the northeast side of the building. On the eastern side of the access road, across from the building's northeast side, is an open wellhead flush with the ground. Adjacent to the wellhead is a small Rubble Pile (AOC No. BW8025/2). Approximately 1,000 feet south of Building 8025 is Building 8022, which is used as a CONTRAVES (camera) site (SF B-8020/8025).

The AOCs at Building 8025 are shown in Figure 3-23 and described on the following pages.

AOC No. BW8025/1 Building 8025 Removed UST

INFORMATION SUMMARY: Site File B-8020/8025; Document EAFB-D-97; Photo BW-40

LOCATION: The Removed UST (Tank No. P067) was located approximately 15 feet from the northeastern side of Building 8025.

SIZE: The unit had a capacity of 280 gallons.

PROBABLE WASTES: The unit was used to store diesel fuel.

CONCERN: The unit was probably installed when Building 8025 was constructed, reportedly in the early 1960s. It was used to supply an emergency generator inside the building. The tank was deactivated around 1967, and was removed in January 1993. At the time of tank removal, one soil sample was collected from beneath the tank 6 feet below grade. The sample was analyzed for LUFT diesel and jet fuel fractions, and BTEX (EPA Method 8020). No contaminants were detected.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since no contaminants were detected at the time of tank removal.

Air - The potential for release to the atmosphere is low since the unit has been removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit has been removed.

RECOMMENDATION: No further investigation (PRL 263).

AOC No. BW8025/2 **Building 8025 Rubble Pile**

INFORMATION SUMMARY: Site File B-8020/8025; Photo BW-41

LOCATION: The unit is located on the eastern side of the access road leading to Building 8025. It is across the street from the building's northeastern side.

SIZE: The unit occupies an area measuring approximately 10 feet by 10 feet. The volume of waste at the unit appeared to be relatively small.

PROBABLE WASTES: At the time of the VSI, the unit contained debris apparently related to former operations at the building. Electronics tubes and material that may contain asbestos were observed, along with domestic trash.

CONCERN: Although the unit is relatively small, and there is no evidence of wastes other than described above, the unit is directly adjacent to an open wellhead that is flush with the ground. Waste could easily be disposed into the wellhead, which might provide a direct conduit to the water supply.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since the contents of the rubble pile are not well known. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since there was no evidence of volatile waste.

Subsurface Gas - The potential for generation of subsurface gas is low since the unit appeared to be located on the ground surface.

RECOMMENDATION: No further investigation. Permanently cap wellhead.

BUILDING 8030

Building 8030 is a low frequency range facility, reportedly abandoned by the FAA in the late 1950s. It is located at T10N, R8W, in the southwestern quarter of Section 8. The building is approximately 1.5 miles west of Rich Road, and can be accessed via a dirt road that runs along the northern side of the former Atchison, Topeka, and Santa Fe Railroad bed (SF B-8030/8035/8040; EAFB-D-87).

Building 8030 is a deteriorating, wood frame building constructed on a concrete slab with approximate dimensions of 20 feet by 30 feet. The facility is enclosed by an unsecured chain link fence. A 1991 memo describing the facility reports that the building's siding materials may contain asbestos. The same memo states that where a former emergency generator's exhaust pipe penetrates the wall, the liner appears to be transite. During the 1992 VSI, the same construction materials were observed, but from field observations it could not be verified that they contained asbestos (SF B-8030/8035/8040; EAFB-D-87).

About 100 yards east of Building 8030, where an aboveground electrical line terminates, there is an old substation (Building 8031) with three transformers mounted on a concrete slab. The transformers are about 4 feet high and 1 foot in diameter. No staining was observed. Debris is scattered around the grounds of the facility including old electrical tubes, wiring, trash and glass. Formerly, a now Removed UST (AOC No. BW8030/1) containing 100-octane aviation fuel was used for the facility's emergency generator (SF B-8030/8035/8040; EAFB-D-87).

The AOC at Building 8030 is shown in Figure 3-23 and described on the following page.

AOC No. BW8030/1 **Building 8030 Removed UST**

INFORMATION SUMMARY: Site File B-8030/8035/8040; Documents EAFB-D-87 and EAFB-D-97; Photo BW-51;

LOCATION: Building 8030 is located in T10N, R8W, in the southwestern quarter of Section 8. The Removed UST (Tank No. P072) was located approximately 2 feet west of Building 8030.

SIZE: The unit had a 320-gallon capacity.

PROBABLE WASTES: Reportedly, the unit was used to store 100-octane aviation fuel.

CONCERN: The unit was probably in place for approximately 40 years, given the age of the building (it was reportedly abandoned in the late 1950s). The tank was removed in January 1993. At the time of tank removal, two soil samples were collected from 2 feet beneath the tank (7 feet below grade). The soil samples were analyzed for LUFT gasoline fraction, organic lead and BTEX (EPA Method 8020). No contaminants were detected.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since no contaminants were detected at the time of tank removal.

Air - The potential for release to the atmosphere is low since the unit has been removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit has been removed.

RECOMMENDATION: No further investigation (PRL 264).

BUILDING 8035

Building 8035 is a low frequency range facility, reportedly abandoned by the FAA in the late 1950s. It is located in T10N, R8W, in the southeastern quarter of Section 8. The building is approximately 0.9 miles west of Rich Road, and can be accessed via a dirt road which runs along the northern side of the former Atchison, Topeka, and Santa Fe Railroad bed (SF B-8030/8035/8040; EAFB-D-87).

Building 8035 is a deteriorating, wood frame building, which sits on a 20 by 30-foot concrete slab. The building is enclosed by a chain link fence. A 1991 memo describing the facility reports that the building's siding materials may contain asbestos. The same memo states that where a former emergency generator's exhaust pipe penetrates the wall, the liner appears to be transite. During the 1992 VSI, the same construction materials were observed, but from field observations it could not be verified that they contained asbestos. Inside the building is an electrical transformer, which is no longer in use. There were no signs of leaks from it. Another old transformer is mounted on a pole just to the west of Building 8035 (SF B-8030/8035/8040; EAFB-D-87).

A now Removed UST (AOC No. BW8035/1) was formerly located 20 feet from the western side of the facility. Reportedly, the UST contained 100-octane aviation fuel and was used to supply an emergency generator removed earlier. There is a rack for two drums on the western side of the building; the drums reportedly may have been used to store oil (SF B-8030/8035/8040; EAFB-D-87).

The AOC at Building 8035 is shown in Figure 3-23 and described on the following page.

AOC No. BW8035/1 **Building 8035 Removed UST**

INFORMATION SUMMARY: Site File B-8030/8035/8040; Documents EAFB-D-87 and EAFB-D-97; Photos BW-37 and BW-38

LOCATION: Building 8035 is located in T10N, R8W, in the southeastern quarter of Section 8. The Removed UST (Tank No. P071) was located approximately 20 feet west of the building.

SIZE: The Removed UST had a 265-gallon capacity.

PROBABLE WASTES: Reportedly, the unit was used to store 100-octane aviation fuel.

CONCERN: The unit was probably in place for approximately 40 years, given the age of the building (it was reportedly abandoned in the late 1950s). The tank was removed in January 1993. At the time of tank removal, two soil samples were collected from beneath the tank (7 feet below grade) and one soil sample was collected from beneath the associated piping (3 feet below grade). Soil samples were analyzed for LUFT gasoline, organic lead, and BTEX (EPA Method 8020). No contaminants were detected.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soil and groundwater is low since no contaminants were detected at the time of tank removal.

Air - The potential for release to the atmosphere is low since the unit has been removed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit has been removed.

RECOMMENDATION: No further investigation (PRL 265).

BUILDING 8040

Building 8040 is a VORTAC tracking station located in T10N, R8W in the northwestern quarter of Section 9. It is approximately 0.3 miles west of Rich Road, and is accessed by a dirt road which heads west from Rich Road, approximately 1.3 miles south of the intersection of Rich Road and 20 Mule Team Road.

Building 8040 is the only active VORTAC located on the base. Both military and commercial aircraft use the VORTAC signal for navigation; however, the facility is manned by Air Force personnel. The facility was built in 1975 and has a 275-gallon Active UST (AOC No. BW8040/1). The UST contains diesel fuel used by the building's emergency generator (SF B-8030/8035/8040; EAFB-D-79).

The AOC at Building 8040 is shown in Figure 3-23 and described on the following page.

AOC No. BW8040/1 **Building 8040 Active UST**

INFORMATION SUMMARY: Site File B-8030/8035/8040; Documents EAFB-D-79 and EAFB-D-117

LOCATION: Building 8040 is located in T10N, R8W in the northwestern quarter of Section 9. The UST (Tank No. P045) is adjacent to the eastern side of the building.

SIZE: The unit has a 275-gallon capacity.

PROBABLE WASTES: The unit is used to store heating fuel. It is not known if fuel has leaked from the unit to the surrounding soils.

CONCERN: The unit has probably been in place for nearly 20 years, given the age of the building (it was constructed in 1975). The tank passed an integrity test in 1993.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low based on the 1993 integrity test results.

Air - The potential for release to the atmosphere is low since the unit is underground.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit does not handle material which might generate such gases.

RECOMMENDATION: No further investigation. Continue routine integrity tests.

BUILDINGS 9500 to 9512
(PRECISION IMPACT RANGE AREA - DOWNFALL)

Downfall is a compound of buildings, including the Range Control Tower (Building 9505), located within a fenced yard on the Precision Impact Range Area (PIRA), approximately 0.75 mile southeast of the sewage treatment plant for the Phillips Laboratory. Downfall and the bombing range were originally operated by Aberdeen Proving Ground, from the early 1940s until 1962. Today, Downfall and the entire range are under the jurisdiction of Computer Sciences Corporation (CSC), although a small contingent of U.S. Air Force personnel and civil servants operate cameras and other instruments out of Building 9504 at Downfall (SF B-9500 to 9512).

Building 9500 is located in the northwest corner of the Downfall yard. This facility reportedly dates from the 1940s. A 1956 engineering drawing shows the building as "Item 26," with electrical storage on the western half of the building and machine and welding shops on the eastern half of the building. A 1967 as-built drawing showing modifications to the building indicates the floor plan included a fabrication shop, tool shop, assembly shop and welding area. Today the building is used as a garage for maintenance of range vehicles. Two flammable storage cabinets inside the building store product materials including parts dip, batteries, oil, carburetor dip, and paints. There is a hazardous waste Satellite Accumulation Point (SWMU No. BW9500/1) adjacent to a storage shed alongside the fenceline northeast of Building 9500 (SF B-9500 to 9512).

Building 9501, located approximately 225 feet east of Building 9500, is a prefabricated metal building constructed in 1972. A 1972 as-built drawing shows a Dry Well (SWMU No. BW9501/1) approximately 10 feet south of the southeastern corner of the building. Today, Building 9501 is used to store equipment used in target scoring. An adjacent trailer is used to build radar equipment (SF B-9500 to 9512).

As-built drawings show Building 9502 was constructed as an instrument laboratory and maintenance building in 1952. A 1956 engineering drawing shows Building 9502 as "Item 18." It has a latrine, which empties to a septic tank located outside the fenceline south of the Downfall compound. Today Building 9502 houses offices. The function of Building 9503 is unknown; it dates from between 1956 and 1967. Building 9504 also dates from between 1956 and 1967. It is used today by U.S. Air Force and civilian personnel who operate instruments and cameras; it reportedly contains a small dark room (SF B-9500 to 9512).

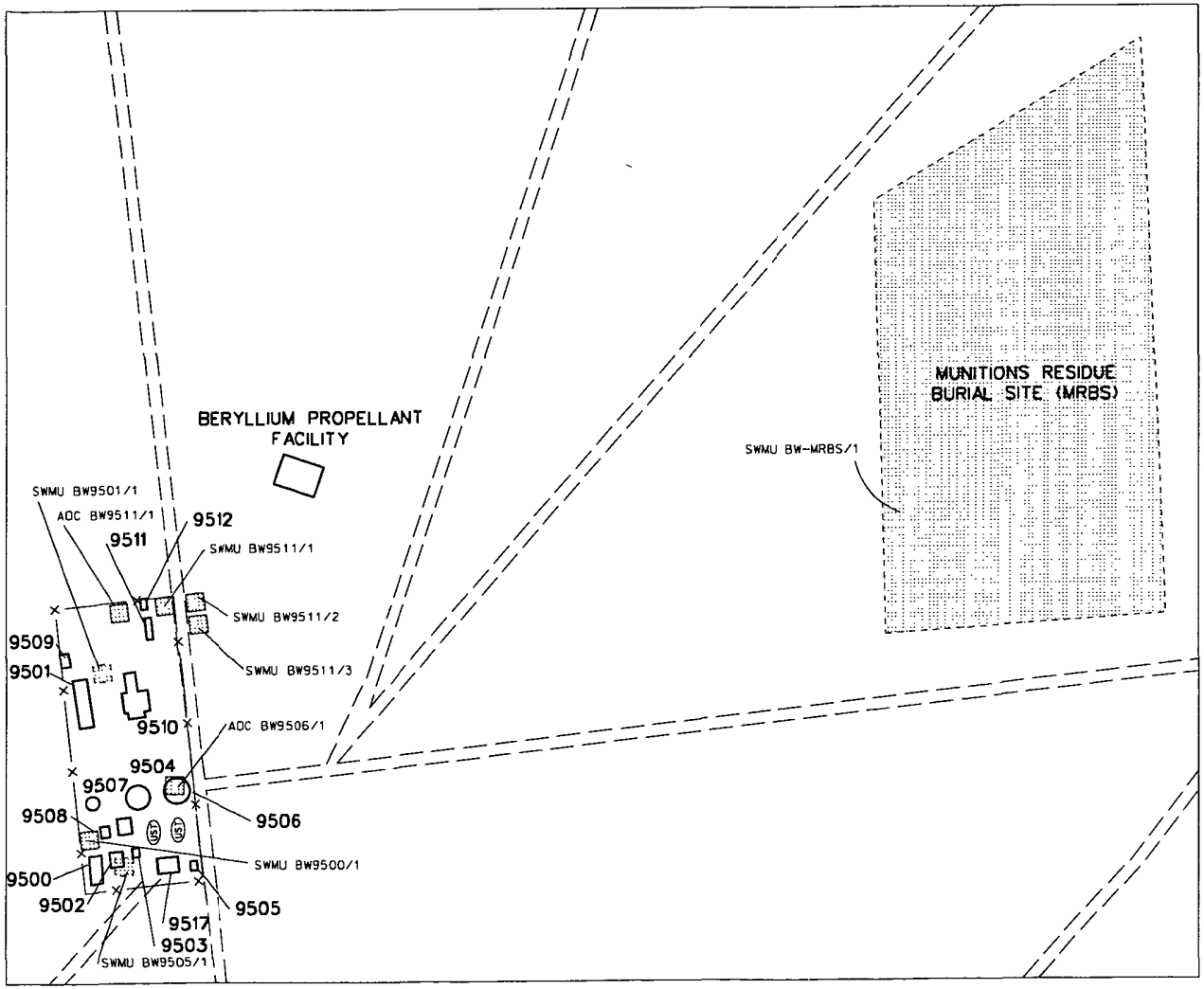
A 1950 engineering drawing shows the Building 9505 floor plan to include a shop, instrument room, assembly room, and dark room. A 2-inch underground waste line ran from sinks in the dark room and assembly room to a Dry Well (SWMU No. BW9505/1) approximately 50 feet north of Building 9505 (just outside or beneath the foundation of Building 9502). A 1956 engineering drawing refers to Building 9505 as the Master Station. It also shows the antenna tower to the north of Building 9505. In 1979, a control room was added on the roof of

Building 9505. Today, the building includes crew quarters downstairs (9505AB), and the new control tower (9505C). All visitors must be cleared through Building 9505 before proceeding to the Bombing Range, and must maintain radio contact with the Control Tower while on the range (SF B-9500 to 9512).

Building 9506 is a small storage building associated with a Fuel Station (AOC No. BW9506/1), consisting of two fuel pumps and two underground storage tanks containing diesel fuel (500 gallons) and unleaded gasoline (1,000 gallons). The storage building and pumps are shown on a 1956 engineering drawing. Buildings 9507 and 9508 were constructed in 1967 as a 5,000-gallon water tower and associated pump house. The water tower is now condemned. Building 9509 is an electric substation constructed in 1972. Building 9510 is shown on a 1956 engineering drawing as "Item 24," which shows the western half of the building as motor storage and the eastern half of the building as equipment storage. A 1967 as-built drawing shows modifications to the building, which is used today to store trackers -- trailer-mounted cameras that shoot high speed film of bombing missions (SF B-9500 to 9512).

Building 9511, in the southeastern corner of the Downfall complex, is a Wash Rack (SWMU No. BW9511/1) that drains to an Earthen Pit (SWMU No. BW9511/2) south of the fenceline. The Wash Rack is shown on a 1956 engineering drawing as "Item 23." West of the Earthen Pit is a Battery and Drum Storage Area (SWMU No. BW9511/3), and west of that is a bermed area that was once intended to store an aboveground tank of leaded gasoline for M-47 tanks. However, the M-47 tanks are now obsolete and the new M-60 tanks run on diesel fuel. Therefore, the bermed area may never be used. Building 9512 is a small paint shed adjacent to the Wash Rack. According to the 1956 engineering drawing, the shed was originally built as a steam plant. Along the eastern fence of the complex, north of the Wash Rack, are two Oil Storage Sheds (AOC No. BW9511/1). The 1956 engineering drawing shows an oil storage building in the approximate location of the Oil Storage Sheds (SF B-9500 to 9512).

The Munitions Residue Burial Site (SWMU No. BW-MRBS/1), located approximately 0.25 mile south of Downfall, is a several acre site where inert ordnance and other solid wastes are buried (SF B-9500 to 9512). The SWMUs and AOCs associated with PIRA Downfall and the MRBS are shown in Figure 3-24 and described on the following pages.



SWMU/AOC LOCATION (known unit, discrete location)

SWMU/AOC LOCATION (known unit, approx. limits)

SWMU/AOC LOCATION (suspected unit, estimated location)

UST LOCATION OF UST (known unit)

UST LOCATION OF UST (suspected unit)

R REMOVED UST

The Earth Technology Corporation

Project no.: 91-1006

Base-Wide Miscellaneous ESI/RFA

Buildings 9500 to 9512 (PIRA Downfall) and Munitions Residue Burial Site

9-93

Figure 3-24

EDWARDS\91100621\A0248MPB.A03

SWMU No. BW9500/1 Building 9500 Satellite Accumulation Point

INFORMATION SUMMARY: Site File B-9500 to 9512; Photo BW-103

LOCATION: The unit is located northeast of Building 9500, along the northern fenceline of the Downfall complex, adjacent to a metal storage shed.

SIZE: The unit is approximately 20 feet long by 5 feet wide.

MATERIAL: The unit consists of several 55-gallon drums stored on wooden pallets on top of bare ground.

CONNECTIONS: None.

PURPOSE: The unit is used to store waste oils until transport to the Base Waste POL facility.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: At the time of the VSI, four drums containing waste oils were observed.

RELEASE CONTROLS: The drums are on wooden pallets, without further containment.

HISTORY OR EVIDENCE OF RELEASE: Staining on nearby ground indicates a history of release.

VSI COMMENTS: Moderate staining was observed outside the adjacent storage shed, which contained fuel canisters.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate since the unit provides no secondary containment, and some staining of soils was observed.

Air - The potential for release to the atmosphere is moderate since the active waste oil drum is open to the atmosphere and moderate staining was observed on the ground surface surrounding the unit.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since waste oil is not expected to degrade to a significant extent to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 266).

SWMU No. BW9501/1 Building 9501 Dry Well

INFORMATION SUMMARY: Site File B-9500 to 9512

LOCATION: According to a 1972 as-built drawing, the unit is located approximately 10 feet south of the southeastern corner of Building 9501.

SIZE: According to a 1972 as-built drawing, the dry well measures approximately 6 feet in diameter.

MATERIAL: Unknown. The dry well presumably contains gravel.

CONNECTIONS: The 1972 as-built drawing shows a line leading from Building 9501 to the Dry Well. The line may have originated from a dark room sink, similar to the arrangement at the Building 9505 Dry Well (SWMU No. BW9505/1).

PURPOSE: The unit was presumably used to dispose of waste liquids generated in Building 9501.

START UP: 1972. **DEACTIVATED:** Unknown.

WASTES MANAGED: Unknown. Based on a 1950 as-built drawing for the Building 9505 Dry Well, the unit formerly may have been used to drain waste liquids generated by photo development and/or assembly work at Building 9501.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Unknown, but wastes would be released to surrounding soils.

VSI COMMENTS: The dry well was not observed during the VSI since it is underground.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the period of operation and materials discharged to the Dry Well are unknown. The current potential for release is low, since the unit is no longer active.

Air - The potential for release to the atmosphere is low since wastes were released to a dry well underground.

Subsurface Gas - The potential for generation of subsurface gas is unknown since the nature of released wastes is unknown.

RECOMMENDATION: Further investigation. Sample (PRL 266).

SWMU No. BW9505/1 Building 9505 Dry Well

INFORMATION SUMMARY: Site File B-9500 to 9512

LOCATION: The unit is located approximately 100 feet north of Building 9505, just outside or beneath the foundation of Building 9502.

SIZE: Based on a 1950 engineering drawing, the unit is approximately 3 feet in diameter, with an unknown depth.

MATERIAL: Unknown. The Dry Well presumably contains gravel.

CONNECTIONS: According to the 1950 engineering drawing, a 2-inch underground waste line ran from sinks in the Building 9505 dark room and assembly room to the Dry Well.

PURPOSE: The Dry Well was apparently used to dispose of photographic chemicals and other wastes generated in the dark room and assembly room at Building 9505.

START UP: 1950 or earlier. **DEACTIVATED:** Unknown.

WASTES MANAGED: The unit was apparently used to dispose of waste photographic chemicals and possibly other chemicals used at Building 9505.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Historically, the unit released routinely to surrounding soils.

VSI COMMENTS: The dry well was not observed during the VSI since it is underground.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high since waste chemicals were discharged directly through the unit to surrounding soils. The current potential for release is low since hazardous wastes are no longer discharged to the unit.

Air - The potential for release to the atmosphere is low since the unit no longer handles hazardous wastes.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were probably not handled.

RECOMMENDATION: Further investigation. Sample (PRL 266).

AOC No. BW9506/1 Building 9506 Fuel Station

INFORMATION SUMMARY: Site File B-9500 to 9512; Document EAFB-D-79; Earth Technology (1992a)

LOCATION: The unit is located in the southwestern portion of Downfall, approximately 95 feet east of Building 9505.

SIZE: The unit consists of a pump island with two pumps, and two associated underground storage tanks containing unleaded gasoline (Tank No. P044) (capacity reportedly 1,000 gallons) and diesel fuel (Tank No. P032) (capacity reportedly 570 gallons).

WASTES MANAGED: The tanks hold unleaded gasoline and diesel fuel.

CONCERN: The Fuel Station dates from the mid-1950s. The two USTs are constructed of steel and have no secondary containment. Their integrity is unknown.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown because the integrity of the tanks and associated piping is unknown.

Air - The potential for release to the atmosphere is low since the fuel tanks are underground and no staining has been observed in the surrounding soil.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since diesel fuel and unleaded gasoline are not expected to be degraded significantly to methane gas.

RECOMMENDATION: Further investigation. Check unit integrity.

SWMU No. BW9511/1 Building 9511 Wash Rack

INFORMATION SUMMARY: Site File B-9500 to 9512; Photo BW-107

LOCATION: The Wash Rack is located in the southeastern corner of the fenced area at Downfall.

SIZE: The Wash Rack is approximately 15 feet by 45 feet.

MATERIAL: The Wash Rack consists of a concrete pad, with wooden ramps on the western end for vehicles to drive up so that mud can be cleaned from their tires and undersides.

CONNECTIONS: Rinsewater used at the Wash Rack drains through a central drain east of the wooden ramps to an Earthen Pit (SWMU No. BW9511/2) south of the fenceline.

PURPOSE: The Wash Rack is used to wash vehicles belonging to the Range Control Center.

START UP: Mid-1950s. **DEACTIVATED:** Currently active.

WASTES MANAGED: Motor oils and hydraulic fluid may be discharged to the unit's central drain during vehicle-washing.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: The unit may have released continually over the past 30 years.
VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate since automotive wastes have been discharged through the unit for many years.

Air - The potential for release to the atmosphere is low since wastes discharged at the unit are not expected to be highly volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes discharged to the unit are not expected to degrade significantly to methane.

RECOMMENDATION: No further investigation. Sample at discharge point (Earthen Pit) (SWMU No. BW9511/2).

SWMU No. BW9511/2 Building 9511 Earthen Pit

INFORMATION SUMMARY: Site File B-9500 to 9512

LOCATION: The unit is located south of the fenceline at the southeastern corner of the Downfall compound.

SIZE: The size of the unit is unknown.

MATERIAL: The unit consists of an earthen pit.

CONNECTIONS: Rinsewater used at the Wash Rack (SWMU No. BW9511/1) drains through a central drain via an underground pipe south to the Earthen Pit.

PURPOSE: The Earthen Pit is used to contain rinsewater discharged by the Wash Rack.

START UP: 1950s. **DEACTIVATED:** Currently active.

WASTES MANAGED: Motor oils and hydraulic fluid may be discharged to the unit during vehicle washing at the Wash Rack.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Automotive wastes may have been discharged to the unit for a period of approximately 30 years.

VSI COMMENTS: No visual evidence of release was observed. The unit showed evidence of some erosion.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high since automotive wastes have been discharged through the unit for many years.

Air - The potential for release to the atmosphere is low since volatile wastes are not handled in the unit.

Subsurface Gas - The potential for generation of subsurface gas is low since wastes discharged to the unit are not expected to degrade significantly to methane.

RECOMMENDATION: Further investigation. Sample (PRL 266).

SWMU No. BW9511/3 Building 9511 Battery and Drum Storage Area

INFORMATION SUMMARY: Site File B-9500 to 9512

LOCATION: The unit is located south of the fenceline for the Downfall compound, just west of the Earthen Pit (SWMU No. BW9511/2).

SIZE: The unit is approximately 20 square feet.

MATERIAL: The unit consists of a wooden pallet on which waste (or recyclable) batteries are stored, and several empty 55-gallon drums and paint cans stored on the ground surface.

CONNECTIONS: None.

PURPOSE: The unit is used for storage of empty oil drums and used batteries.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: At the time of the VSI, the following waste materials were observed: five batteries, empty paint cans, empty antifreeze containers, and empty 55-gallon oil drums.

RELEASE CONTROLS: The batteries were stored on a pallet.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: The area was adjacent to the Earthen Pit.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate, since the unit does not provide secondary containment.

Air - The potential for release to the atmosphere is moderate since open paint cans are exposed to the air.

Subsurface Gas - The potential for generation of subsurface gas is low, since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation. Very small amount of waste managed.

AOC No. BW9511/1 Building 9511 Oil Storage Sheds

INFORMATION SUMMARY: Site File B-9500 to 9512

LOCATION: The Oil Storage Sheds are located along the eastern fence of the Downfall compound, north of the Wash Rack. A 1956 engineering drawing shows an oil storage building in the approximate location of the Oil Storage Sheds.

SIZE: Each shed is approximately 10 feet square by 10 feet high and constructed of metal.

WASTES MANAGED: The unit manages product oil and Simple Green (a biodegradable solvent) in 55-gallon drums with spigots and drip pans. Approximately six drums were observed during the VSI.

CONCERN: The ground outside the Oil Storage Sheds was moderately stained.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate based on visual evidence of staining outside the units.

Air - The potential for release to the atmosphere is moderate since surface soils are visibly stained with oil products.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the spilled materials are not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 266).

SWMU No. BW-MRBS/1 Downfall Munitions Residue Burial Site

INFORMATION SUMMARY: Site File B-9500 to 9512; Photos BW-63, and BW-104 to BW-106

LOCATION: The unit is located approximately 0.25 mile south of Downfall.

SIZE: The unit consists of a series of parallel pits occupying several acres. Filled pits are topped with soil. At the time of the VSI, the active pit measured approximately 200 feet long by 20 feet deep by 20 feet wide.

MATERIAL: The unit consists of parallel, unlined earthen pits in which scrap, inert ordnance and other solid wastes are deposited.

CONNECTIONS: None.

PURPOSE: The unit is primarily used to landfill inert ordnance collected from the bombing range. Other solid wastes are also landfilled.

START UP: Early 1950s. **DEACTIVATED:** Currently active.

WASTES MANAGED: At the time of the 1991 VSI, the following wastes were observed in the active pit: inert ordnance, tires, a transmission, cloth targets, jeep chair seats, and paint cans. Reportedly, high magnesium flares have been buried in the pits in the past. During the 1992 VSI, only inert ordnance was observed in the unit.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: Reportedly, no liquid wastes are disposed in the MRBS.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate since the unit provides no secondary containment, and past waste management practices are not well known.

Air - The potential for release to the atmosphere is low since volatile wastes are not handled.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes that might generate methane gas are not handled.

RECOMMENDATION: No further investigation. Only solid wastes were disposed, and drilling in this area may be hazardous.

AIRCRAFT CRASH SITES

Throughout the history of Edwards AFB, there have been numerous aircraft crashes, both on and off base. The base does not keep more than 1 year's worth of information on crashes. Thus a running log of crashes could not be identified on base. However, some information (dating back to 1976) is kept on file by HQAFSA/SERR at Norton AFB. Other information on aircraft crashes was obtained from interviews with two long-time base employees: Mr. Ybarra of the Main Base Fire Department and Mr. Patton of the South Base Fire Department. Table 3-5 summarizes pertinent information on crashes at Edwards AFB for which documentation or anecdotal accounts were available. In addition to the crash reports listed in the table, Earth Technology was told of a couple of F-4s that crashed on the range during approach (one F-4 crash site was seen during the 1992 VSI, west of Rich Road and south of the former railroad bed) (SF B-ACS; EAFB-D-81).

Associated with each crash may be unburned aircraft fuel, lubricating and hydraulic oil, coolant, and hydrazine or other fuels for emergency propulsion units. However, personnel from the base fire department report that most liquids are atomized when a crash occurs, and are probably consumed in the fireball. Usually the fire department does not arrive on the scene until most flammable liquids are consumed. Since (in general), details of these crashes, such as their exact location and the quantity of liquid fuel released are not known, the aircraft crash sites are not identified as AOCs or SWMUs (SF B-ACS).

TABLE 3-5. AIRCRAFT CRASH DATA

Aircraft Type	Crash Date	Location	Other Information	Reference[a]
A-4	---	Eastern shore of Rogers Dry Lake	---	3
SR-71	---	Near intersection of Rich Road and Highway 58	---	3
B-70	---	---	---	3
A-4	1965	Near Red Hill at west end of base	---	3
F-4	1976	---	Crashed during takeoff	1
F-4	1976	---	Crashed during takeoff	1
F-16	1976	---	Crashed during landing	1
F-16	1980	---	Crashed during takeoff	1
Piper Cub	1985	East side of Rogers Dry Lake, north of NASA viewing site	Ran out of gas	2
F-16	1987	Near west end of Main Base Runway	Crashed during landing	1
UH-1 (Helicopter)	06/15/91	On North Base Runway	---	1, 2
F-16	06/18/91	Runway 30, near approach to Runway 18	100 gallons of fuel dumped on lakebed	2
UH-1 (Helicopter)	10/10/91	1.5 miles west of 120th Street, 0.3 mile north of Avenue C	Crashed and burned	2
MU-2	05/18/92	1,000 feet east of end of Runway 22	No fire	2
F-22	1992	Near west end of Main Base Runway	---	1, 2

a 1 - Norton AFB List (Reference 100)
2 - Anecdotal (Mr. Ybarra, Main Base Fire Dept, Reference 99)
3 - Anecdotal (Mr. Patton, South Base Fire Dept, Reference 99)

AVENUE A UNAUTHORIZED DISPOSAL SITE

Background

The Avenue A Unauthorized Disposal Site (SWMU No. BW-AA/1) is located southeast of the town of Rosamond on West Avenue A where it intersects with the western boundary of Edwards AFB. This unit, identified as IRP Site 34, was used for commercial recovery of metals from waste materials from approximately 1950 to 1970. Various waste materials such as car seats, insulated wire, transformers, batteries, electronic components, and other items were burned on open ground with no subsurface or lateral containment. When the facility was closed in 1970, little or no cleanup of the area was performed, and a number of uncovered piles of ashes were left on site (SF B-WBA; Earth Technology, 1991b).

Site 34 was first identified as a potential hazardous waste site in 1957 by the California Environmental Protection Agency, Department of Toxic Substance Control [Cal EPA-DTSC, formerly the California Department of Health Services (CDHS)], as a result of their Rosamond Cancer Cluster Investigation. In August 1988, a Determination of Imminent and Substantial Endangerment was made for this site. In November 1988, the CDHS sought assistance from the U. S. Environmental Protection Agency (EPA) in restricting access to the site and in remediating the hazard. In January 1989, the U.S. EPA erected a perimeter fence around the site to restrict public access. In November 1990, the U.S. EPA Emergency Response Section (ERS) began planning site stabilization to prevent further migration of contaminants (SF B-WBA; Earth Technology, 1991b).

In early 1991 the site was remediated by the following actions (SF B-WBA; Earth Technology, 1991b):

- Identification of soil fixation techniques appropriate for site soil characteristics
- Relocation of heavily contaminated material to a treatment zone followed by grading of the treatment site
- Disposal of debris and vegetation in two trenches located along the northern side of the site
- Application of cement and fly ash additive to soil in the treatment zone followed by compaction.

Previous Investigations

Investigations at the Avenue A Unauthorized Disposal Site took place from 1988 to 1991 under the auspices of the CDHS, the U.S. EPA, and the Edwards AFB Office of Bioenvironmental Engineering, and included (SF B-WBA; Earth Technology, 1991b):

- o Reconnaissance visit (May 1988)
- o Collection of six surface soil and/or ash samples (June 1988)
- o Collection of 24 surface soil and one surface water sample (November 1988)
- o Collection of 12 surface soil samples (December 1990)
- o Analysis of 100 surface soil and ash samples by X-ray fluorescence (XRF) technique and collection of 31 surface soil samples (January 1991)
- o Analysis of 69 surface soil and ash surveys by XRF (February 1991)
- o Remedial Action Plan (February-March 1991)
- o Final XRF survey for metals (182 sample locations) and collection of seven surface soil samples (March 1991).

Sampling Results Summary

Surface Water Analysis

One surface water sample was taken from Piute Ponds in November 1988, and analyzed for dioxins. No dioxins were detected (SF B-WBA; Earth Technology, 1991b).

Soil Analyses

- o Six surface soil samples were taken adjacent to various types of waste piles in June 1988, and analyzed for metals, semivolatile organics and various dioxins. At least half the samples contained levels of copper, lead, and zinc above their Total Threshold Limit Concentration (TTLC) values. Maximum concentrations of 31,000 mg/kg copper, 94,000 mg/kg lead, and 70,000 mg/kg zinc were detected. Concentrations of dioxin and furan species ranged from 1.5 μg/kg to 8.4 μg/kg, and 0.61 μg/kg to 23.7 μg/kg, respectively. In the dioxin/furan group of constituents, only the 2,3,7,8-tetrachlorodibenzodioxin (2378-TCDD) has been assigned a TTLC value (10 μg/kg) by the state of California. No detectable levels of 2378-TCDD were found in any of the June 1988 samples; however, a TCDD Toxicity Equivalent value was calculated for each sample using an unspecified method. Because of the high TCDD Toxicity Equivalent value in four out of the six samples analyzed (range from 10.29 μg/kg to 55.59 μg/kg), this site was considered very hazardous by the CDHS (SF B-WBA; Earth Technology, 1991b)

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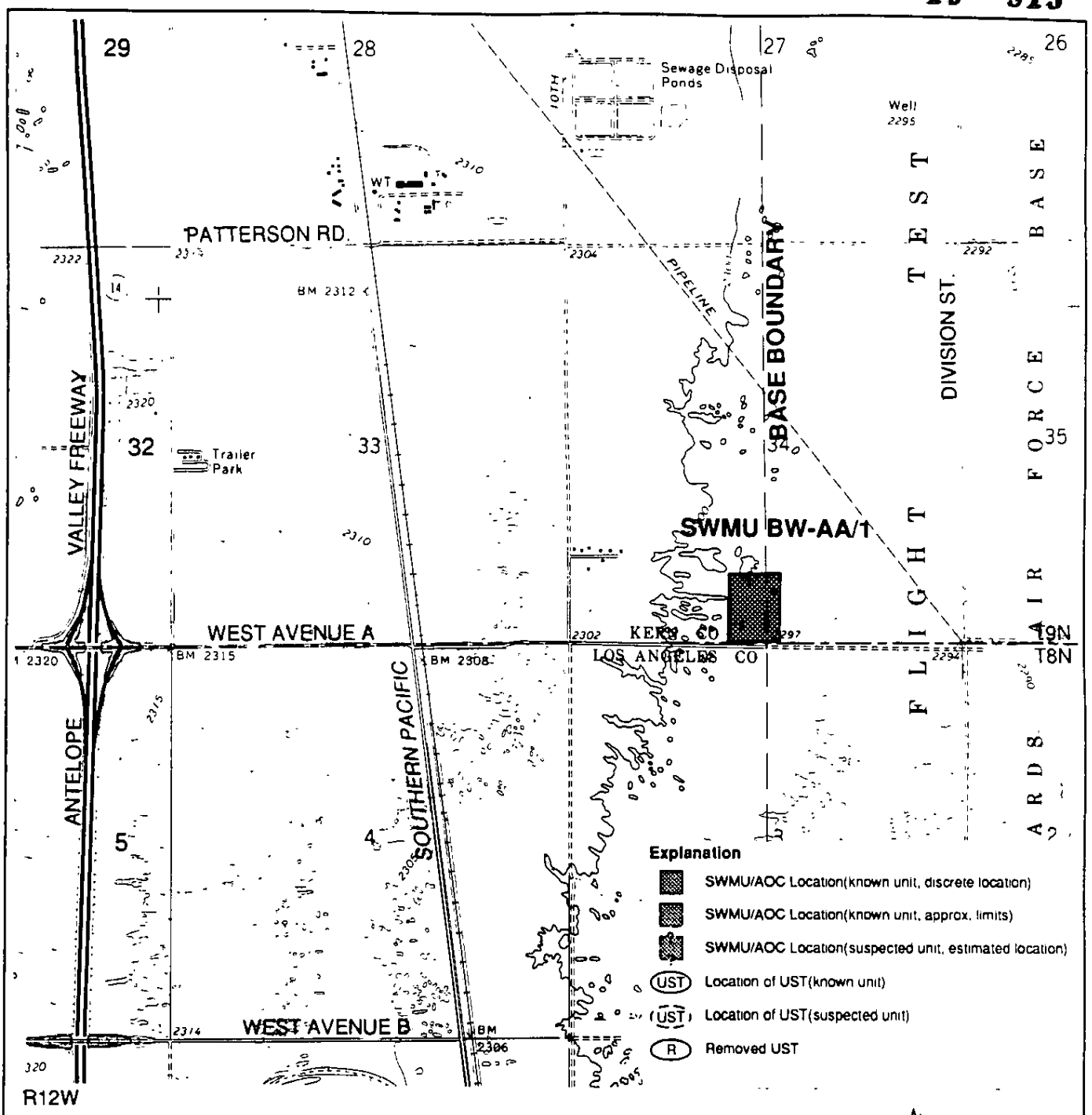
- Twenty-four surface soil samples were taken in November 1988 and analyzed for dioxins. Nine of the samples contained detectable levels of at least one dioxin or furan isomer, but concentrations were all below 1.0 μg/kg (SF B-WBA; Earth Technology, 1991b)

- Twelve surface soil samples were taken in December 1990 within the area expected to have the highest concentrations of contaminants, and analyzed for chromium, copper, lead, and zinc. Chromium was present in concentrations above the detection limits (up to 50 mg/kg) but below the TTLC value. Concentrations above the TTLC for copper (up to 30,000 mg/kg), lead (up to 1,100 mg/kg), and zinc (up to 8,400 mg/kg) were each detected in at least one sample (SF B-WBA; Earth Technology, 1991b)

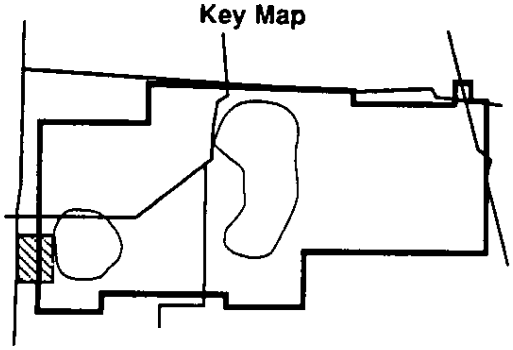
- Thirty-one surface soil samples were taken in January 1991 on a sampling grid with 100 foot spacing, and analyzed for dioxins, copper, lead, and zinc. Concentrations of total 2378-TCDD were well below the TTLC value (up to 0.38 ug/kg). Metal concentrations, however, were all above detectable limits, and many were above the TTLC values; copper, lead, and zinc concentrations were as high as 51,000 mg/kg, 99,000 mg/kg, and 50,000 mg/kg, respectively (SF B-WBA; Earth Technology, 1991b)

- Seven post stabilization surface soil samples were taken in March 1991, and analyzed for copper, lead, and zinc. While some samples still had metal concentrations above the TTLC value, the absolute metal concentrations were lower than in prestabilization samples, reaching only 6,710 mg/kg for copper, 1,580 mg/kg for lead, and 5,470 mg/kg for zinc (SF B-WBA; Earth Technology, 1991b).

The SWMU identified as the Avenue A Unauthorized Disposal Site is shown in Figure 3-25 and described on the following page.



Key Map



Source: Base map from U.S.G.S. Rosamond, CA Quadrangle, 1973.

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Project No 91-1006

Base-Wide Miscellaneous ESI/RFA

Avenue A Unauthorized Disposal Site

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Figure 3-25

SWMU NO. BW-AA/1 Avenue A Unauthorized Disposal Site

INFORMATION SUMMARY: Site File B-WBA; Earth Technology (1991b)

LOCATION: The Avenue A Unauthorized Disposal Site (IRP Site 34) is located southeast of the town of Rosamond, on West Avenue A where it intersects with the western boundary of Edwards AFB.

SIZE: The boundaries of the unit are approximately 800 feet wide by 1,000 feet long.

MATERIAL: The site is located on flat terrain which slopes gently toward the east. When the facility was used for commercial metal recovery, burning was performed on open ground with no subsurface or lateral containment. Remediation efforts included relocation of debris and ash piles to a treatment zone or into trenches located along the northern side of the site.

CONNECTIONS: None.

PURPOSE: The site was used for commercial metal recovery.

STARTUP: Approximately 1950. **DEACTIVATED:** Closed 1970; Remediated 1991.

WASTES MANAGED: Various waste materials were burned for metal recovery including car seats, insulated wire, transformers, batteries, and electronic components. The burning of these wastes resulted in elevated concentrations of metals and dioxins in surrounding soils.

RELEASE CONTROLS: None. The unit had no subsurface or lateral containment.

HISTORY OR EVIDENCE OF RELEASE: Based on sampling results summarized earlier, the metal recovery operation released elevated concentrations of copper, lead, and zinc to soils within the unit.

VSI COMMENTS: None. The unit was not visited during the ESI/RFA.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high since burning was conducted on bare ground without containment and elevated concentrations of metals were detected in soils. The current potential is low since the site is no longer used for waste disposal and chemical testing indicates the stabilized soil should be effective in resisting chemical leaching and/or subsequent offsite physical migration of copper, lead, zinc, and dioxins.

Air - The potential for release to the atmosphere is low since no volatile wastes are on the ground surface.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: No further investigation. The Air Force is awaiting a No Further Response Action Planned (NFRAP) approval for Site 34.

CALNEV JP-4 FUEL PIPELINE

The CALNEV JP-4 Fuel Pipeline is the only pipeline on base that is owned by an outside contractor. It supplies the large aboveground tanks at the Main Base Bulk Fuel Storage facility. The CALNEV Fuel Pipeline is a 6-inch-diameter steel line with an 8-inch diameter sleeve along most of its route. Where the pipeline lies beneath a road bed, the diameter of the pipe increases to 8 inches and the sleeve increases to 10 inches or 12 inches. The pipeline is buried 3 feet to 4 feet deep and has welded joints. It was installed in 1980 (SF B-CFP).

The CALNEV JP-4 Fuel Pipeline originates at George AFB in Victorville, California, and terminates at Nellis AFB in Las Vegas, Nevada. The main pumping station is located in Colton, California. Several booster pump stations are located along the pipeline route. The pipeline enters Edwards AFB from the south, running along the western side of Lancaster Boulevard. The pipeline crosses under Lancaster Boulevard at Mojave Boulevard and follows along the eastern side of Lancaster Boulevard, then runs east along the northern side of Forbes Avenue until it connects to the aboveground storage tanks at the Main Base Bulk Fuel Storage Facility (SF B-CFP).

The pipeline has two spurs on base. One runs east from Lancaster Boulevard along Wolfe Avenue to the aboveground tanks at Building 2560. This spur is also built of steel pipe that is 6 inches to 8 inches in diameter, with a steel sleeve where the pipeline lies beneath a roadbed. Another spur, no longer used, runs east from Lancaster Boulevard approximately 4,000 feet before angling northeast 8,400 feet to the B-2 CTF facility at South Base (the spur runs approximately 1.2 miles north of and roughly parallel to Jones Road). This spur is a Fiberglas pipe 6 inches to 8 inches in diameter, with a steel sleeve where the pipeline lies beneath a roadbed. This spur was installed in the mid-1980s and taken out of service in 1989 (SF B-CFP).

The only location on base where the CALNEV JP-4 Fuel Pipeline is visible at ground surface is the satellite station near the intersection of Lancaster Boulevard and Jones Road. The satellite station is also a "batching pig" or "line cleaning" station. North and east of this station, Edwards AFB bears the responsibility for the CALNEV JP-4 pipeline (AOC No. BW-CNP/1). The quantity of product (barrels out) that is sent to Edwards AFB from George AFB is metered at set points along the pipeline 24 hours a day and compared to the quantity of product (barrels in) that arrives at the satellite station on Lancaster Boulevard. If there are deviations outside of set parameters, flow is automatically shut off. CALNEV performs an integrity (pressure) test at 125 percent of operating pressure on the pipeline up to the satellite station every 5 years. The pipeline was last tested in 1991 and passed. According to a representative from base liquid fuel management, there have been no known leaks along the CALNEV JP-4 Fuel Pipeline since its installation (SF B-CFP).

The AOC identified as the JP-4 fuel pipeline is shown on Plate 1 and described on the following page.

AOC No. BW-CNP/1 CALNEV JP-4 Fuel Pipeline

INFORMATION SUMMARY: Site File B-CFP; Photo BW-70

LOCATION: The pipeline enters Edwards AFB from the south, running along the western side of Lancaster Boulevard. The base has responsibility for the pipeline north of an aboveground satellite station at the intersection of Lancaster Boulevard and Jones Road. The pipeline crosses under Lancaster Boulevard at Mojave Boulevard and follows along the eastern side of Lancaster Boulevard, then runs east along the northern side of Forbes Avenue until it connects to the aboveground storage tanks at the Main Base Bulk Fuel Storage Facility.

The pipeline has two spurs on base. One runs east from Lancaster Boulevard along Wolfe Avenue to the aboveground tanks at Building 2560. This spur is also built of steel pipe that is 6 inches to 8 inches in diameter, with a steel sleeve where the pipeline lies beneath a roadbed. Another spur, no longer used, runs east from Lancaster Boulevard approximately 4,000 feet before angling northeast 8,400 feet to the B-2 CTF facility at South Base (the spur runs approximately 1.2 miles north of and roughly parallel to Jones Road). This spur, identified as the Abandoned JP-4 Pipeline (AOC No. S-PL/5; see SB ITIR), is a Fiberglas pipe 6 inches to 8 inches in diameter, with a steel sleeve where the pipeline lies beneath a roadbed. The 2.4 mile spur was installed in 1986 and taken out of service in 1989 (SF B-CFP).

SIZE: The pipeline is 6 inches in diameter with an 8-inch steel sleeve. Where the pipeline lies beneath a road bed, the diameter of the pipe increases to 8 inches and the sleeve increases to 10 inches or 12 inches.

PROBABLE WASTES: The pipeline transports JP-4 fuel.

CONCERN: The pipeline is single-walled. Where the sleeve occurs, it does not provide secondary containment but rather serves a structural purpose. No integrity testing has been performed on the pipeline north of the satellite station on Lancaster Boulevard.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the unit is unknown.

Air - The potential for release to the atmosphere is low since the unit is 3 feet to 4 feet deep.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since JP-4 fuel is not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Check unit integrity. Sample (PRL 302).

CONTRACTORS HILL

Contractors provide numerous services for Edwards AFB. These services include pest control, chemical toilets service, elevator maintenance, custodial services, trash collection, restaurant grease trap pumping, demineralized water supply, septic tank pumping, hydraulic lift service, environmental testing, and grounds maintenance. In addition they provide electrical, mechanical, plumbing, and painting services. For these services, some contractors have facilities at Contractors Hill, located on the northern side of Forbes Avenue, 1,000 feet west of its intersection with Rosamond Boulevard. The area is along the service road to Building 4919 (SF B-CH).

A VSI was conducted in May 1991. On the western side of the service road, from north to south, there were facilities for the following contractors:

- Valley Engineers - Provide water main services. The facility contained two 500-gallon aboveground tanks for diesel fuel and gasoline in a plastic-lined, bermed area. There were also 5-gallon cans of stock hydraulic oil (SF B-CH)

- Golden Bear Arborists - Provide tree pruning services. There were two 500-gallon aboveground tanks for diesel fuel and gasoline stored in metal pans. Note: No trailer was observed for this contractor in March 1992; however, the AGT containing regular gasoline was still in place (SF B-CH)

- Gardner Zemke - Provide power line maintenance, starting in 1991. The facility included a garage used for preparation work on conduit and cable. There were also two 500-gallon aboveground tanks for diesel fuel and gasoline, both in a plastic-lined, bermed area (SF B-CH)

- North American - Provide services to Gardner Zemke in adjacent facility. Note: No trailer was observed for this contractor in March 1992. However, a trailer for AL Electric was observed (SF B-CH)

- Brott Mechanical - Provide contracting services for small electrical, plumbing, and mechanical jobs. Note: no trailer was observed for this contractor in March 1992 (SF B-CH)

- Yordi - Provide services to Brott Mechanical on small electrical, plumbing, and mechanical jobs (SF B-CH).

On the eastern side of the road, from north to south, were the following contractors:

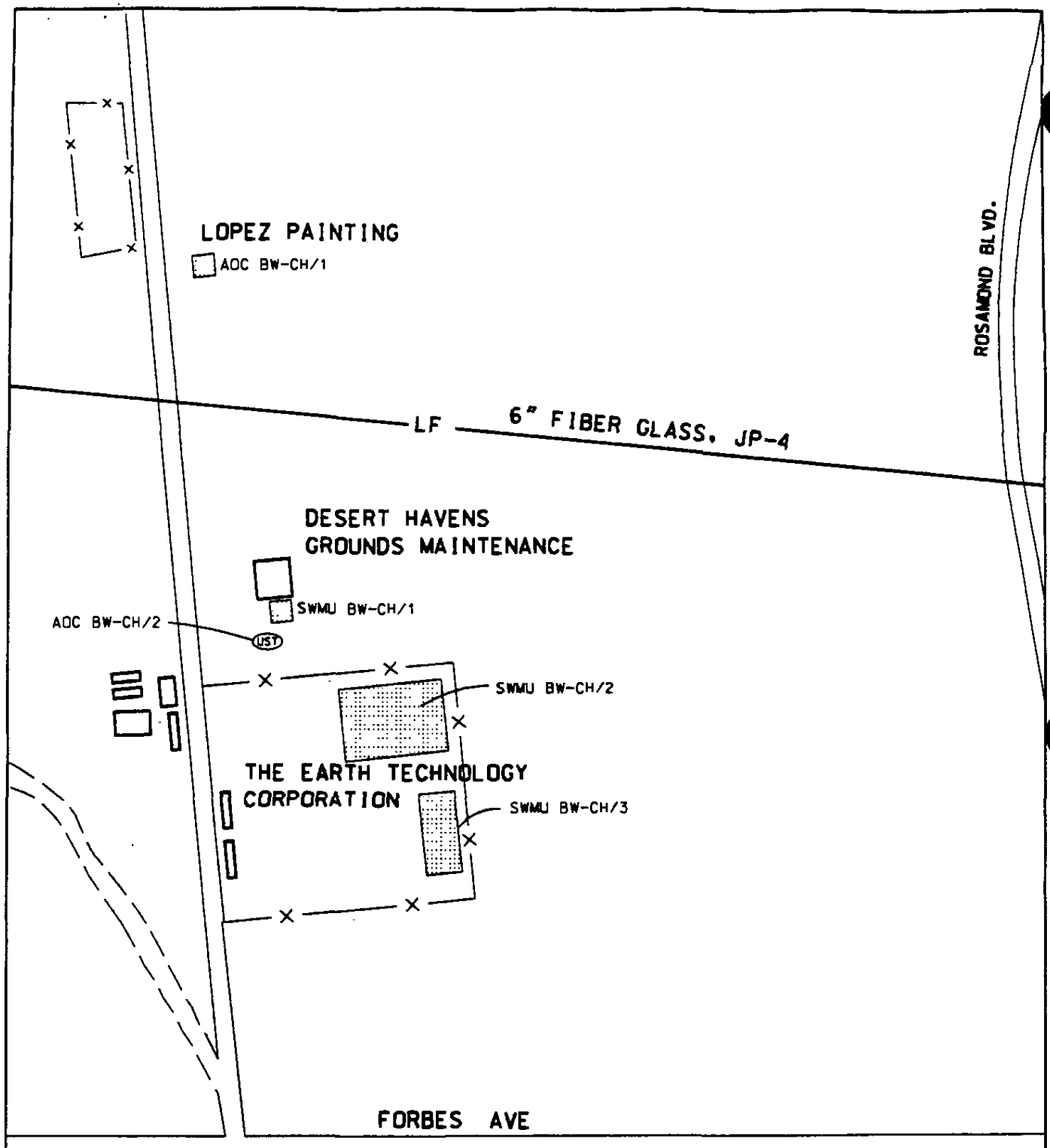
- Lopez Painting - Provide exterior painting services. In the Painters' Compound (AOC No. BW-CH/1) numerous paint cans were observed scattered about, with

spilled paint on the ground. Note: This unit was considerably cleaner when visited in March 1992 (SF B-CH)

- Desert Havens Grounds Maintenance - Provide grounds maintenance such as lawn mowing. The compound has reportedly been in use since 1988, and is built on a former rubble dump. There is an Inactive UST (AOC No. BW-CH/2) near the southwestern corner of the building, reportedly with a capacity of 500 gallons. It is not in use. There are three aboveground storage tanks in the compound: a 250-gallon tank for diesel fuel, and 250- and 500-gallon tanks for gasoline. At the Satellite Accumulation Point (SWMU No. BW-CH/1), waste oil from lawn mowers is stored. Note: A sanitation trailer was observed north of the nursery area in March 1992. It had an associated Mogas AGT (SF B-CH)

- The Earth Technology Corp. - Provide IRP remedial investigation services such as groundwater monitoring well installation and soil borehole drilling. The facility contains a Decontamination Pad (SWMU No. BW-CH/2) for cleaning vehicles such as drilling rigs, and a Drum Storage Area (SWMU No. BW-CH/3) for soil cuttings from drilling (SF B-CH).

The SWMUs and AOCs associated with Contractors Hill are presented in Figure 3-26 and described on the following pages.



SWMU/AOC LOCATION (known unit, discrete location)

SWMU/AOC LOCATION (known unit, approx. limits)

SWMU/AOC LOCATION (suspected unit, estimated location)

UST LOCATION OF UST (known unit)

UST LOCATION OF UST (suspected unit)

R REMOVED UST

NORTH

0 100 200 FEET
SCALE

The Earth Technology Corporation

Project no.: 91-1006

BASE WIDE MISCELLANEOUS
ESI / RFA

Contractors Hill

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Figure 3-26

EDWARDS\91100621\A0250MPB.AO3

SWMU No. BW-CH/1 Contractors Hill Satellite Accumulation Point

INFORMATION SUMMARY: Site File B-CH; Photos BW-24 and BW-25

LOCATION: The unit is located on the southern side of the maintenance building at the Desert Havens compound, which is on the eastern side of the road through Contractors Hill, approximately 1,000 feet west of Rosamond Boulevard and 700 feet north of Forbes Avenue.

SIZE: The unit occupies an area approximately 5 feet square.

MATERIAL: The unit consists of a 55-gallon drum on a concrete pad.

CONNECTIONS: None.

PURPOSE: The unit stores waste oil from lawn mowers and other vehicles.

START UP: Unknown. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages waste engine oil.

RELEASE CONTROLS: The drum is situated on a concrete pad with no berm.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release; however, the pad under the drum was stained.

VSI COMMENTS: There were stains on the concrete pad under the drum.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate since the drum is stored on a concrete pad, and there was some staining on the pad.

Air - The potential for release to the atmosphere is low since wastes are stored in a closed drum.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation. Only minor stains were observed on the concrete pad.

SWMU No. BW-CH/2 Contractors Hill Decontamination Pad

INFORMATION SUMMARY: Site File B-CH; Photo BW-27

LOCATION: The unit is located within the Earth Technology compound on the east side of the road through Contractors Hill, approximately 850 feet west of Rosamond Boulevard and 500 feet north of Forbes Avenue.

SIZE: The unit occupies an area approximately 130 feet by 130 feet.

MATERIAL: The unit contains two metal steam cleaning racks connected to three aboveground metal Baker Tanks. The racks are underlain by a gravel bed which is underlain by a plastic liner. PVC piping collects any drainage from the gravel bed and discharges it to a metal 55-gallon drum that is located down gradient.

CONNECTIONS: The steam cleaning racks each contain a sump which is connected to the Baker Tanks. The plastic liner is connected by a drain pipe to a 55-gallon drum.

PURPOSE: The Decontamination Pad is used for steam cleaning vehicles such as drill rigs used in potentially contaminated areas of the base. Wastewater generated by operations is collected in the sumps of the wash racks and then pumped to the Baker Tank for temporary storage. Overspray runs through the gravel base and is collected by PVC drainage piping for discharge to the storage drum.

START UP: 1991. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages wastewater potentially contaminated with waste POL and solvents that may be encountered at IRP sites and PRLs. Wastewater is tested to determine whether it must be disposed as hazardous waste.

RELEASE CONTROLS: The unit is underlain by a plastic liner, and runoff is collected in a 55-gallon drum.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release.

VSI COMMENTS: None.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the unit was installed recently and has secondary containment.

Air - The potential for release to the atmosphere is low since wastewater from steam-cleaning operations is collected in a Baker Tank, which is kept closed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation.

SWMU No. BW-CH/3 Contractors Hill Drum Storage Area

INFORMATION SUMMARY: Site File B-CH

LOCATION: The unit is located in the Earth Technology compound on the southern side of the Decontamination Pad (SWMU No. BW-CH/2), on the eastern side of the road through Contractors Hill, approximately 850 feet west of Rosamond Boulevard and 300 feet north of Forbes Avenue.

SIZE: The area measures approximately 50 feet by 120 feet.

MATERIAL: The Drum Storage Area consists of 55-gallon drums stored on pallets on a gravel base.

CONNECTIONS: None.

PURPOSE: The purpose of the unit is to store drums of soil cuttings from groundwater monitoring well and soil borehole drilling.

START UP: 1991. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages soil cuttings potentially contaminated with POL and solvents. The soil cuttings are stored in 55-gallon drums.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release.

VSI COMMENTS: The area appeared to be neat and orderly during the VSI. All drums were in good condition.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the unit manages only solid material.

Air - The potential for release to the atmosphere is low since the waste is stored in covered drums.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the solid material is stored in drums.

RECOMMENDATION: No further investigation.

AOC No. BW-CH/1 Contractors Hill Painters' Compound

INFORMATION SUMMARY: Site File B-CH; Photos BW-18 and BW-19

LOCATION: The unit is the northernmost facility on the eastern side of the road at Contractors Hill, approximately 1,050 feet west of Rosamond Boulevard and 1,100 feet north of Forbes Avenue.

SIZE: The Painters' Compound occupies an area approximately 20 feet square.

PROBABLE WASTES: At the time of the VSI in May 1991, numerous 5-gallon paint cans were observed scattered around the area. The contractor reportedly uses only water-based paint. There was a strong odor, possibly of paint thinner, in the area.

CONCERN: The unit is a fenced area on bare ground. In May 1991, numerous 5-gallon paint cans were observed scattered around the area, and the ground surface bore evidence of numerous spills. There was a strong odor, possibly of paint thinner, in the area. The contractor, Lopez Painting, had reportedly been operating from the area since November 1990.

When revisited in March 1992, the unit was observed to be much more orderly, with paint cans neatly stacked and no evidence of paint stains on the ground.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since, although spilled paints were observed on the ground during an initial visit to the unit, the contractor had only been located there for 6 months. The current potential is moderate since the unit has been cleaned up considerably; however, paint cans are still stored on bare ground.

Air - The potential for release to the atmosphere is high since potentially volatile wastes are spilled on the ground and empty paint cans are allowed to air dry.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation. The paint contractor has been operating from the area for only 2 years. Provide secondary containment for paint wastes.

AOC No. BW-CH/2 Contractors Hill Inactive UST

INFORMATION SUMMARY: Site File B-CH

LOCATION: The unit (Tank No. M125) is located approximately 60 feet outside the southwestern corner of Building 4919B, currently occupied by Desert Havens Ground Maintenance.

SIZE: The unit has a reported capacity of 500 gallons.

PROBABLE WASTES: The contents of the tank are unknown, but presumed to be a petroleum product.

CONCERN: According to Contracts Management personnel, the UST has been in place for over 15 years. Its contents are unknown.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown since the integrity of the tank is unknown.

Air - The potential for release to the atmosphere is low since the unit is below ground surface.

Subsurface Gas - The potential for generation of subsurface gas is low, since petroleum products are not expected to degrade to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 303).

EAST CAMP

East Camp, also known as Muroc Army Base, is located at T10N, R9W, in Sections 24, 25, and 36; and at T10N, R8W, in Section 31. The area is on the eastern edge of Rogers Dry Lake north of where Mercury Boulevard turns east to head toward the Phillips Laboratory. East Camp, which is now abandoned, was established by the Army in the early 1930s. During the early years, there was no permanent camp. Rogers Dry Lake was used by the Western Division of the Army Air Corps for target and bombing practice, and for flying maneuvers. The area was well suited for practice flights since it was isolated, and would not endanger life and property, and had light air traffic and excellent flying conditions (Computer Sciences Corporation, 1991).

In early 1936, officers of the Pacific Coast Air Force visited the bombing range east of the "Muroc Dry Lake" (Rogers Dry Lake) and expressed a desire to make the range a permanent base for practice bombing. During 1936, the bombing range and East Camp Area were primarily used by the Army's 1st Wing Division. This Division was composed of all Army aircraft west of San Antonio, with General Henry H. "Hap" Arnold in command. The equipment and manpower were supplied by March Field (Computer Sciences Corporation, 1991).

Structures and Foundations

The East Camp tent city of the early 1930s was improved upon by Lt. Max R. Finnel, the commander of the new bombing range. According to a historic overview of the base by CSC, the first two permanent buildings constructed at East Camp were a mess hall and barracks in 1935. Additional prefabricated buildings were erected until 1941, when the troops were relocated across the lake bed to what is now the South Base (Computer Sciences Corporation, 1991).

Based on a 1936 aerial photograph of East Camp, recent low-altitude aerial photographs of the remaining foundations, and the VSI, a number of structures and foundations were identified. These are described below (SF B-EC).

Generator Building and Storage Tank: The generator building is the only structure at the East Camp Main Encampment Area which still has its wooden walls and roof (Photo BW-62). The building is approximately 20 feet wide by 30 feet long. There is an old cable coming from the hill area east of the structure, which enters one of the building's windows. Approximately 200 feet northeast of the generator building is a wooden pole, which probably supported wires that carried electricity from the generator building to the other structures within East Camp (SF B-EC).

Approximately 40 feet east of the generator building is an Abandoned UST (AOC No. BW-EC/1). It is a square steel tank which is located within a square concrete vault. The vault

is approximately 5 feet square with unknown depth (it is filled with sand surrounding the tank), and the tank is approximately 4 feet square with unknown depth. The edges of the concrete vault are approximately 1 foot above the ground surface and the tank top is positioned at the ground surface within the vault. The Abandoned UST probably contained diesel fuel or leaded gasoline and was part of the generator system (SF B-EC).

Tower: During the 1992 VSI, the support or anchor structures for a large tower were identified approximately 500 feet east of the generator building. A tower structure is visible in the 1936 aerial photograph. Based on the location of this tower in relation to a large building in the 1936 photograph, it is believed to be the same tower. A concrete and stone ring was constructed around the base of the tower; the concrete was signed and dated by Ignacio Torres in March 1944 (SF B-EC).

Large Foundation: A large concrete foundation is located approximately 100 feet south of the former tower structure. The foundation is approximately 40 feet wide by 50 feet long and the building can be seen in the 1936 aerial photograph. Based on the location of this foundation and the placement of 16 tents adjacent to the building (in the 1936 photograph) it appears this building was either a mess hall or administrative building. There are no floor drains within the concrete foundation and no evidence of USTs near the foundation (SF B-EC).

Concrete Moat: Approximately 30 feet east of the large foundation is what appears to be a ring-shaped concrete trench or moat. The moat is approximately 2.5 feet across and 2 feet deep.

Latrine/Bathhouse: Another concrete foundation, approximately 0.25 mile northeast of the generator building, was observed to have pipes protruding from it, and floor drains. This building was probably the latrine/bathhouse. If so, a septic tank may be associated with this foundation, although no evidence of one was seen during the VSI. This building/foundation does not appear in the 1936 photograph, and was most likely built between 1937 and 1941 (SF B-EC).

Water Tower: Another tower was located on a hill northwest of the latrine/bathhouse. The anchor or support structures for this tower were visible during the VSI. Based on the location of this tower in relation to the latrine/bathhouse it may have supported a water tank (SF B-EC).

Rifle Range: The East Camp Rifle Range (SWMU No. BW-EC/1) is located approximately 0.25 mile east of the East Camp main encampment area. The Rifle Range consists of four earthen berms, each approximately 12 feet high by 200 feet long, that are covered with a tar-like stabilizing substance. The berms are parallel to each other and approximately 300 feet apart. There is a concrete wall located on the east side of the easternmost berm. Behind this concrete wall are 10 wooden frames which held the targets. The targets, mounted on the frames, were raised manually (with the aid of a pulley system) by men positioned behind the concrete wall. Soldiers participating in the target practice were positioned on one of the three western berms. Any lead bullets fired on this range would be located in the easternmost berm, or in the ground

east of the targets. The Rifle Range was used from the early 1930s to the mid-1950s (SF B-EC).

Tetrahedron: The remains of a tetrahedron, or "high-tech wind sock" used to record wind direction and speed are located near the lakebed, west of the foundations. The structure has a concrete foundation approximately 3.5 feet square. The sides, top, and rod which held the wind measuring unit are steel. The gears of the tetrahedron are still within the housing (SF B-EC).

Aircraft Engine Mounts: Approximately 0.5 mile north of the East Camp main encampment foundations, along the edge of the lakebed, are seven concrete foundations in a row, each approximately 5 feet square and 18 inches high (Photo BW-43). Each foundation has a circular hole in the center with eight anchor bolts. Reportedly, the foundations were used as engine mounts, for repair and maintenance of aircraft engines. Electrical boxes are mounted on metal poles on the western side of the foundations. There are also steel plates anchored to the ground approximately 10 feet east of each foundation. On the east side of the engine mounts, a number of wood stakes protrude from the ground, possibly indicating the former location of a temporary structure. This facility was reportedly used as a generator or maintenance facility in support of repair work done at the adjacent engine mounts. No staining of the ground was observed in the area during the VSI (SF B-EC).

Aircraft Hitching Posts: Directly south of the aircraft engine mounts is a row of aircraft "hitching posts." Each "hitching post" is a steel pipe approximately 3.5 feet high with a smaller, curved steel rod bent at a 45 degree angle and attached to the top of the larger pipe. There were no aircraft hangars at East Camp; possibly these posts were used to anchor planes while their engines were being repaired at the adjacent engine mounts. No staining was observed on the ground near these "hitching posts" (SF B-EC).

Tank Saddles: Two overturned, concrete tank saddles are located near Rogers Dry Lake. The saddles probably held an aboveground cylindrical tank with a diameter of approximately 5 feet. The 1936 aerial photograph shows a long narrow form near the dry lakebed adjacent to the area where the airplanes are parked. This may have been an aboveground tank used to store airplane fuel (SF B-EC).

Moving Target Machine Gun Range: Approximately 1.5 miles north of the East Camp main encampment is the former Moving Target Machine Gun Range (AOC No. BW-EC/2). The facility is approximately 0.3 mile long and 0.1 mile wide. According to base personnel, an old airplane was mounted on a railroad car and together the two would be moved in an "in-and-out" or zig-zag type pattern along a set of railroad tracks. Approximately eight earthen berms are located alongside the moving target railroad tracks. Soldiers practicing with machine-guns were positioned behind the earthen berms and fired at the airplane as it passed by on the railroad car. Lead bullets fired on this range would be located near the railroad tracks which make up the outline of this range (SF B-EC).

Debris: Several areas containing debris are located near East Camp. An area of old trash is located at the base of the hills east of the lakebed, south of the Moving Target Machine Gun Range (Photo BW-44). The area is about 50 feet by 50 feet and appears to contain domestic debris, including rusted cans and broken glass. It apparently was used for burning, since there are pieces of charred wood, and some of the glass is melted. At other areas in the vicinity of East Camp, several inert, concrete bombs were observed (SF B-EC).

The SWMU and AOCs located at East Camp are shown in Figure 3-23 and described on the following pages.

SWMU No. BW-EC/1 East Camp Rifle Range

INFORMATION SUMMARY: Site File B-EC; Photo BW-42

LOCATION: The Rifle Range is located approximately 0.25 mile east of the East Camp main encampment area.

SIZE: The Rifle Range consists of four earthen berms, each approximately 12 feet high and 200 feet long. The berms are parallel to each other and approximately 300 feet apart. There is a concrete wall located on the east side of the easternmost berm. Behind this concrete wall are 10 wooden frames which held the targets.

MATERIAL: The berms are constructed of native soils, and covered with a tar-like stabilizing substance. The hillside east of the targets, on which bullets impacted, is also constructed of native soils.

CONNECTIONS: None.

PURPOSE: The unit was formerly used as a small arms shooting range. The targets, mounted on the frames, were raised manually (with the aid of a pulley system) by men positioned behind the concrete wall. Soldiers participating in the target practice were positioned on one of the three western berms. Bullets fired on the Rifle Range would be located in the easternmost berm, or in the hillside east of the targets.

STARTUP: Early 1930s. **DEACTIVATED:** Mid-1950s.

WASTES MANAGED: The unit managed lead slugs from rounds fired at targets.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Lead is in direct contact with the surrounding soils. It is not known if the lead is dissolved and released to groundwater.

VSI COMMENTS: Several slugs were found on the ground surface on the hillside east of the targets.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high since lead is in direct contact with soils in the area.

Air - The potential for release to the atmosphere is low since wastes are not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Sample (PRL 267).

AOC No. BW-EC/1 East Camp Abandoned UST

INFORMATION SUMMARY: Site File B-EC; Photo BW-78

LOCATION: The Abandoned UST (Tank No. P047) is located in the main encampment area of East Camp. It is approximately 40 feet east of the generator building (the only building with intact walls at East Camp).

SIZE: The capacity of the Abandoned UST is unknown. It is a square steel tank which is located within a square concrete vault. The vault is approximately 5 feet square with unknown depth (it is filled with sand surrounding the tank), and the tank is approximately 4 feet square with unknown depth. The edges of the concrete vault are approximately 1 foot above the ground surface and the tank top is positioned at the ground surface within the vault.

PROBABLE WASTES: The Abandoned UST probably contained leaded gasoline or diesel fuel used by the adjacent generator building.

CONCERN: The unit was probably used from the mid-1930s through the early 1940s. The integrity of the unit and the surrounding concrete vault when in use is unknown. No evidence of release was observed during the 1992 VSI.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since the integrity of the unit is unknown. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since the unit is no longer in use.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the products that were probably stored are not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 268).

AOC No. BW-EC/2 **East Camp Moving Target Machine Gun Range**

INFORMATION SUMMARY: Site File B-EC

LOCATION: The unit is located approximately 3 miles north of where Mercury Boulevard turns east after running north along the eastern edge of Rogers Dry Lake. The unit is in T10N, R9W, Section 24.

SIZE: According to a 1943 as-built drawing, the Moving Target Machine Gun Range measures 1,500 feet long by 480 feet wide, and consists of a railway along which a rail car with a mounted target plane was moved. The revetments located around the perimeter of the track can be identified in a 1967 aerial photograph. Support facilities associated with the unit included a car shop, generator building with 100-gallon UST (Tank No. P046), and firing porch with gun turrets, occupying an area of approximately 300 feet by 500 feet west of the Moving Target Machine Gun Range.

WASTES MANAGED: It is unknown what types of shells were fired at the unit, but potentially 50 caliber (lead bullets) ammunition was used. The UST associated with the generator building probably stored diesel fuel.

CONCERN: Potentially the ground surrounding the Moving Target Machine Gun Range may be contaminated with lead from machine gun bullets. The 100-gallon UST may have leaked diesel fuel in the vicinity of the generator building.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since it is unknown what type of ammunition was used at the unit, and the integrity of the UST is unknown. The current potential for release is low since the unit is inactive.

Air - The potential for release to the atmosphere is low since volatile wastes are not handled.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since organic wastes are not handled by the unit.

RECOMMENDATION: Further investigation. Sample (PRL 269).

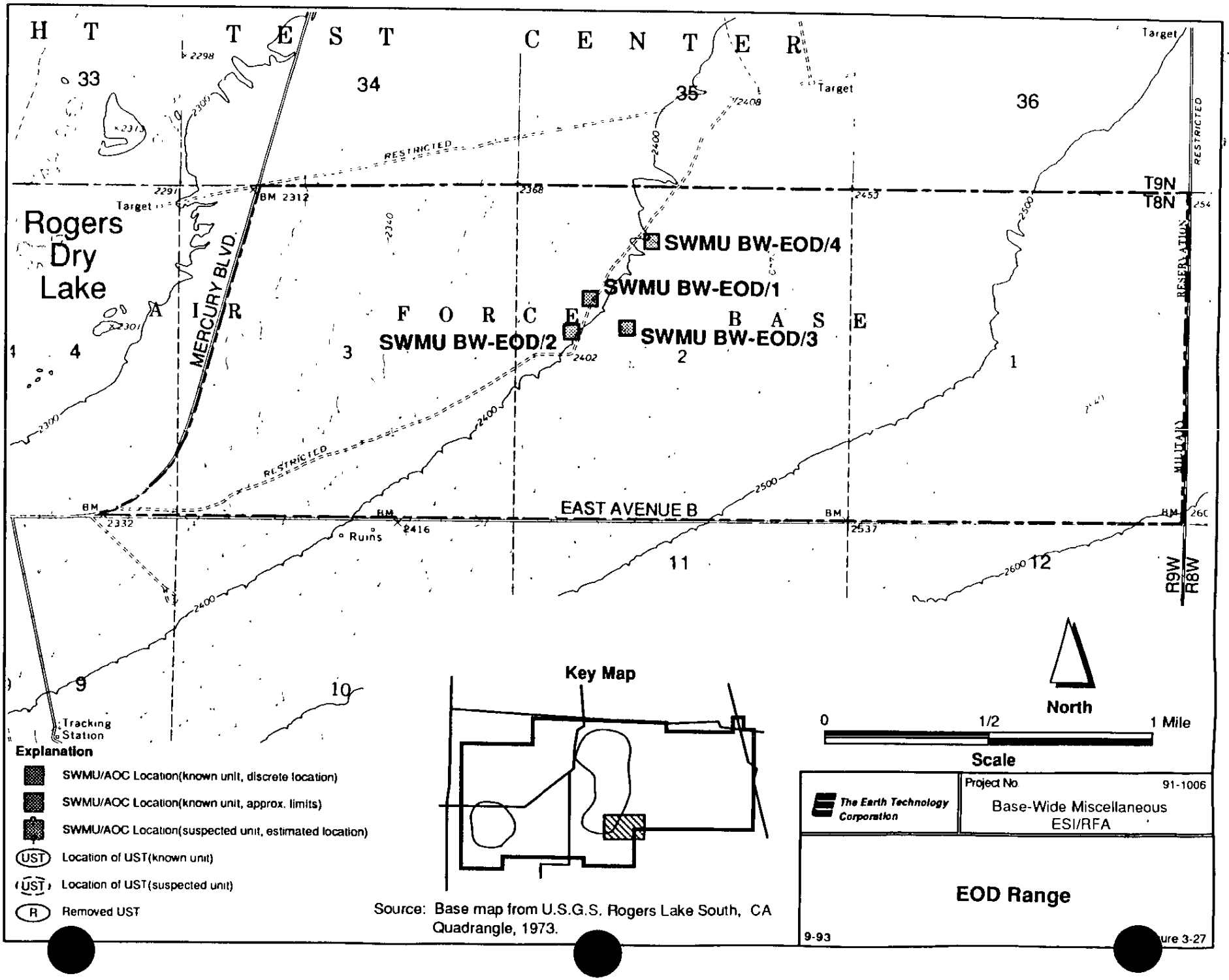
EXPLOSIVE ORDNANCE DISPOSAL RANGE

The Explosive Ordnance Disposal (EOD) Range occupies approximately 3 square miles to the southeast of Rogers Dry Lake at T8N, R9W, in Sections 1, 2, and 3. The area is used to deactivate unexploded ordnance and to destroy inert bombs used in delivery system testing. The tails and the tips of the dummy bombs are destroyed to ensure that the bombs are not mistaken for live munitions. The EOD Range is managed by the EOD unit, working out of Building 4950 on the Main Base. The EOD unit is in the initial stage of selecting another site for their Thermal Treatment Unit (SF B-EOD).

There are three major areas within the EOD Range where activities occur: the Thermal Treatment Unit (SWMU No. BW-EOD/1) and adjacent Satellite Accumulation Point (SWMU No. BW-EOD/2); the Residue Pits (SWMU No. BW-EOD/3); and the Disposal Area (SWMU No. BW-EOD/4). The Thermal Treatment Unit consists of a heavy metal box set inside a concrete and earthen pit. Small ordnance that have an "expired Air Force shelf-life" are placed inside the metal box along with wood and a small amount of diesel fuel and burned. Residual ashes from the Thermal Treatment Unit are placed in metal 55-gallon drums at the adjacent Satellite Accumulation Point. In the past, ash residue was placed in the nearby Residue Pits. These unlined trenches are now used only for paper, cardboard, and metal trash disposal (SF B-EOD).

The Disposal Area, located approximately 0.3 mile northeast of the Thermal Treatment Unit, is a large, cleared, circular area where the ends of larger inert bombs are blown out with C-4 explosives. Large ordnance that has an "expired Air Force shelf-life" is also detonated here. The inert bombs are then taken to the Munitions Residue Burial Site (SWMU No. BW-MRBS/1) south of the PIRA Downfall facility (Buildings 9500 to 9512) (SF B-EOD).

The SWMUs associated with the EOD Range are shown in Figure 3-27 and described on the following pages.



Source: Base map from U.S.G.S. Rogers Lake South, CA Quadrangle, 1973.

ure 3-27

SWMU No. BW-EOD/1 EOD Thermal Treatment Unit

INFORMATION SUMMARY: Site File B-EOD; Photo BW-67

LOCATION: The unit is located within the EOD Range. It has restricted access via a dirt road that runs east from Mercury Boulevard, just north of its intersection with Avenue B.

SIZE: The metal box is approximately 6 feet by 10 feet by 6 feet deep, and the surrounding pit is approximately 15 feet square.

MATERIAL: The unit consists of a heavy metal box within a concrete-lined earthen pit.

CONNECTIONS: None.

PURPOSE: The unit is used for the controlled burning of small unexploded ordnance under the supervision of EOD personnel.

START UP: Unknown, but probably 1940s. **DEACTIVATED:** Currently active.

WASTES MANAGED: Small unexploded ordnance is combined with wood and diesel fuel and then burned. Residual ash is currently placed in 55-gallon drums at the Accumulation Point (SWMU No. BW-EOD/2). Burns occur fairly infrequently, averaging approximately four per year for the last several years.

RELEASE CONTROLS: The burn box is constructed of heavy gauge metal and is surrounded by a concrete-lined earthen pit. However, it is unknown when the unit had the concrete installed. There are no air emission controls on the unit.

HISTORY OR EVIDENCE OF RELEASE: Air releases occur whenever there is a burn.

VSI COMMENTS: According to EOD personnel, no burns occurred in 1991.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since the unit may not have had secondary containment. The current potential for release to soils and groundwater is low since the unit now has secondary containment.

Air - The potential for release to the atmosphere is high since air releases occur whenever there is a burn.

Subsurface Gas - The potential for generation of subsurface gas is low since wastes discharged to the unit are not expected to degrade significantly to methane.

RECOMMENDATION: Further investigation. Sample (PRL 270).

SWMU No. BW-EOD/2 EOD Range Satellite Accumulation Point

INFORMATION SUMMARY: Site File B-EOD; Photo BW-68

LOCATION: The unit is located within the EOD Range. It has restricted access via a dirt road that runs east from Mercury Boulevard, just north of its intersection with Avenue B.

SIZE: The unit is approximately 15 feet by 5 feet.

MATERIAL: The unit consists of several 55-gallon drums stored on wooden pallets on bare ground.

CONNECTIONS: None.

PURPOSE: The unit is used to store ash residue from burns at the Thermal Treatment Unit (SWMU No. BW-EOD/1). The ash is tested by the Medical Laboratory at Brooks AFB. If the ash tests as hazardous waste it is disposed of in a hazardous waste landfill. If the waste is not hazardous, it is disposed of at the Main Base Active Sanitary Landfill (SWMU No. BW-LF/2).

START UP: 1987-1988. **DEACTIVATED:** Currently active.

WASTES MANAGED: At the time of the VSI, five drums containing ash residue were observed.

RELEASE CONTROLS: None, the unit has no secondary containment.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release.

VSI COMMENTS: The drums were in good condition.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the unit has only been in operation for a few years. Although there is no secondary containment, the unit does not handle liquid waste.

Air - The potential for release to the atmosphere is low since ashes are stored in closed drums.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since ashes do not degrade to methane gas.

RECOMMENDATION: No further investigation.

SWMU No. BW-EOD/3 EOD Range Residue Pits

INFORMATION SUMMARY: Site File B-EOD

LOCATION: The unit is located within the EOD Range. It has restricted access via a dirt road that runs east from Mercury Boulevard, just north of its intersection with Avenue B.

SIZE: There is one open trench approximately 75 feet long, 30 feet wide, and 20 feet deep. From the look of the surrounding area, there are probably other similar trenches that have been closed and covered.

MATERIAL: The trenches are dug out of natural soils.

CONNECTIONS: None.

PURPOSE: The unit is currently used for disposal of paper, cardboard, and metal trash. In the past, the unit was also used to dispose of ash residue from EOD burn operations.

START UP: Unknown, but probably 1940s. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit is currently used for disposal of paper, cardboard, and metal trash. In the past, the unit was used to dispose of ash residue from EOD burn operations.

RELEASE CONTROLS: The trenches are covered with soil when full. The area is remote and secured behind a locked gate.

HISTORY OR EVIDENCE OF RELEASE: Until the late 1980s, residual ash, possibly containing heavy metals, had been placed in the unlined earthen trenches.

VSI COMMENTS: According to EOD personnel, no burns have occurred in the last year.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is moderate since wastes are in direct contact with the soil.

Air - The potential for release to the atmosphere is low since the trenches are covered with soil after filling.

Subsurface Gas - The potential for generation of subsurface gas is low since wastes discharged to the unit are not expected to degrade significantly to methane.

RECOMMENDATION: Further investigation. Sample (PRL 270).

SWMU No. BW-EOD/4 EOD Range Disposal Area

INFORMATION SUMMARY: Site File B-EOD; Photo BW-66

LOCATION: The unit is located within the EOD Range, approximately 0.3 mile northeast of the Thermal Treatment Unit (SWMU No. BW-EOD/1).

SIZE: The unit is 2 acres to 3 acres, with detonations occurring in the center.

MATERIAL: The unit is a large, cleared, circular area composed of natural soils.

CONNECTIONS: None.

PURPOSE: The unit is used to blow off the ends of inert bomb casings so that they are not mistaken for live munitions.

START UP: Unknown, but probably 1940s. **DEACTIVATED:** Currently active.

WASTES MANAGED: The unit manages inert bomb casings and the residues created by exploding the ends off the bombs using C-4 explosive. Scrap metal is taken to the Munitions Residue Burial Site (SWMU No. BW-MRBS/1) at PIRA Downfall.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: A small amount of debris was scattered around the unit.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since some residue may not be gathered for disposal at the MRBS.

Air - The potential for release to the atmosphere is high since air releases occur whenever there is an explosion.

Subsurface Gas - The potential for generation of subsurface gas is low since wastes discharged to the unit are not expected to degrade significantly to methane.

RECOMMENDATION: No further investigation.

FARM DROP ZONE

The Farm Drop Zone is located in T8N, R10W in the south half of Section 8. It runs along the north side of Avenue C between 90th Street East and 100th Street East. The area is approximately 0.3 mile wide and 1 mile long, and consists of completely plowed over land. On the southern side of the zone is an earthen berm approximately 10 feet high which has a cinetheodolite marker (Number C13) on top (SF B-FDZ).

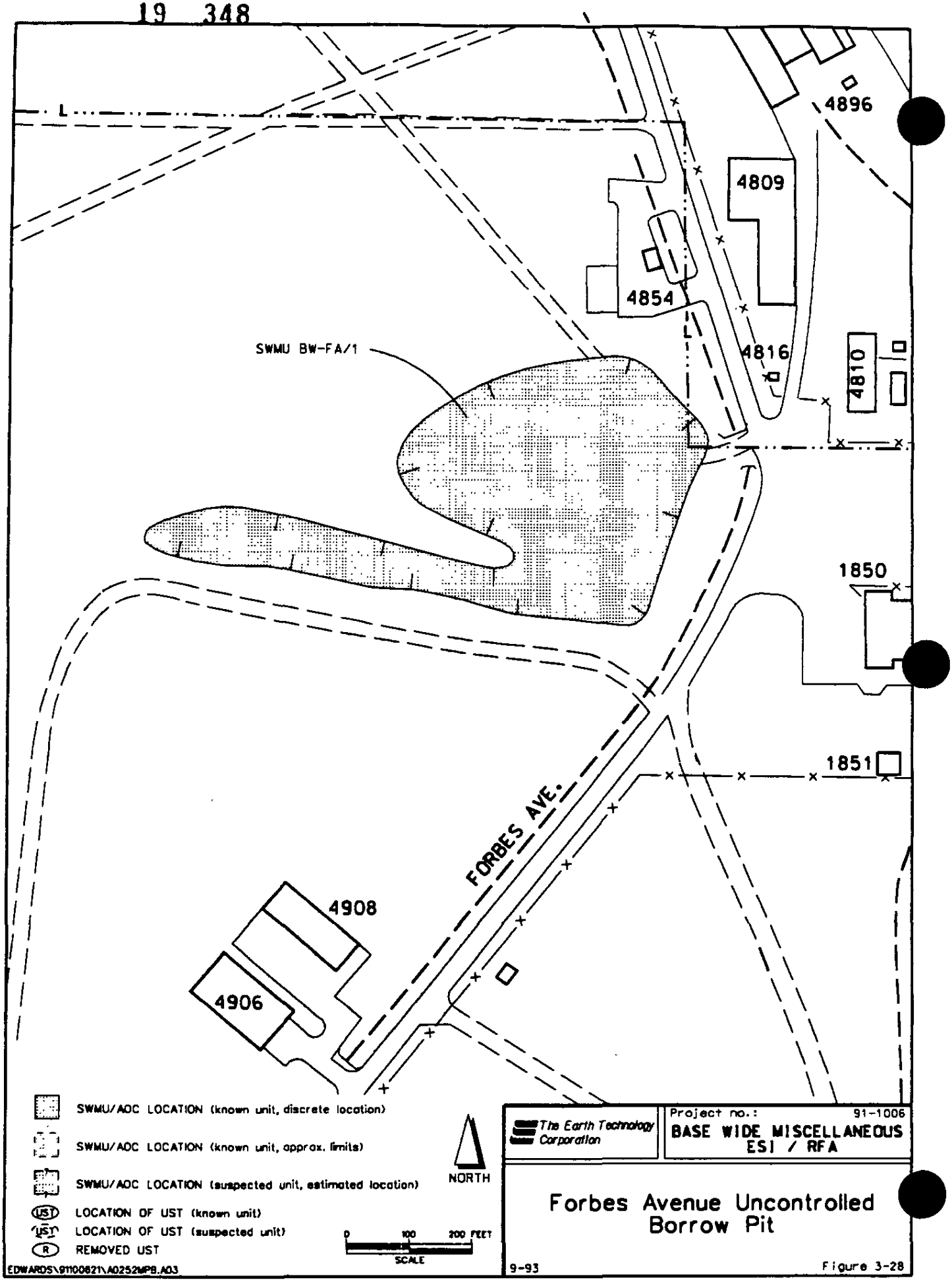
According to Range Squadron personnel, the area is used for practice parachute drops and heavy cargo drops. This information contradicts an anecdotal report that the Farm Drop Zone may have been used for the testing of defoliants. According to Range Squadron personnel, the only area that may have been used for defoliant testing was the PB6 area on the PIRA (SF B-FDZ).

No SWMUs or AOCs were identified at the Farm Drop Zone.

FORBES AVENUE BORROW PIT

An Uncontrolled Borrow Pit (SWMU No. BW-FA/1) that has apparently been used for dumping of construction wastes is located west of Forbes Avenue just south of the NASA complex. A review of aerial photographs shows the unit was present as early as 1967. Visual observations do not indicate the release of hazardous materials; however, the history of the unit is unknown (SF B-FBP).

The SWMU identified at Forbes Avenue is shown in Figure 3-28 and described on the following page.


4896
4809
4854
4816
4810
SWMU BW-FA/1
1850
1851
FORBES AVE.
4908
4906
SWMU/AOC LOCATION (known unit, discrete location)
SWMU/AOC LOCATION (known unit, approx. limits)
SWMU/AOC LOCATION (suspected unit, estimated location)
LOCATION OF UST (known unit)
LOCATION OF UST (suspected unit)
REMOVED UST
NORTH
0 100 200 FEET
SCALE
EDWARDS\91100621\A0252WP8.A03
The Earth Technology Corporation
Project no.: 91-1006
BASE WIDE MISCELLANEOUS ESI / RFA
Forbes Avenue Uncontrolled Borrow Pit
9-93
Figure 3-28

SWMU No. BW-FA/1 Forbes Avenue Uncontrolled Borrow Pit

INFORMATION SUMMARY: Site File B-FBP

LOCATION: The unit is located on the western side of Forbes Avenue, immediately south of the NASA complex.

SIZE: The unit occupies an area approximately 750 feet by 750 feet by 8 feet deep.

MATERIAL: The unit consists of an unlined earthen pit.

CONNECTIONS: None.

PURPOSE: The unit is apparently a former borrow pit that has been used for the uncontrolled dumping of waste construction material. Debris at the site is above ground. It is unknown if any hazardous materials have been discharged to the unit.

START UP: Before 1967. **DEACTIVATED:** Currently active.

WASTES MANAGED: Based on the debris that can be seen, the unit is used only as a construction dump. No household or industrial waste was observed.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: The history of release is unknown. If hazardous materials were disposed in the unit, release to the ground is possible.

VSI COMMENTS: No evidence of hazardous release was observed. The types of debris observed include soil, gravel, concrete, steel piping, and wood.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown because the history of the unit is unknown, and the unit is apparently still active.

Air - The potential for atmospheric release is low because materials did not appear to be volatile.

Subsurface Gas - The potential for subsurface generation is low because it does not appear that any wastes were buried.

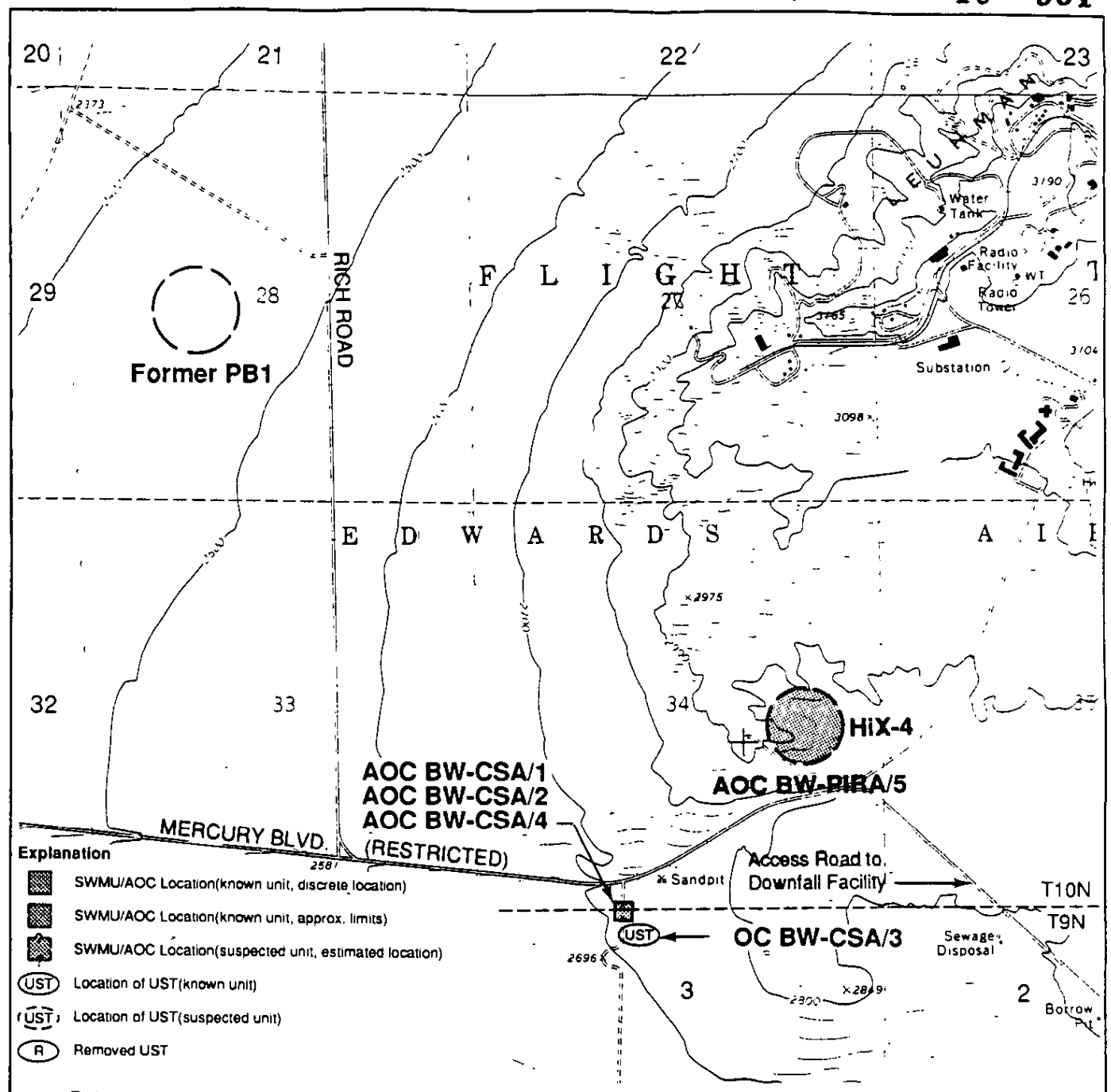
RECOMMENDATION: Further investigation. Sample (PRL 304).

FORMER CONSTRUCTION STAGING AREA

The Former Construction Staging Area is located at T10N, R8W, in the southwestern quarter of Section 34. The area is 0.5 mile east of the intersection of Mercury Boulevard and Rich Road on the southern side of Mercury Boulevard. It is located within the West Range of PIRA, approximately 120 feet inside the barbed wire fence located along Mercury Boulevard. Based on anecdotal reports from longtime Edwards AFB employees, as well as the building remains, it is believed this area was a construction staging area. It was reportedly built and used to support construction of the Phillips Laboratory on Leuhman Ridge, probably during the 1950s (SF B-FCSA).

The facility contains three building foundations. One has a 1-foot-square "pit" which drains, by way of an 8-inch pipe, to the desert soils at the Drain Outfall (AOC No. BW-CSA/1). Another foundation appears to have been part of a vehicle maintenance shop, as there are two rectangular openings which may have been Grease Pits (AOC No. BW-CSA/2). There is also a partially uncovered Abandoned UST (AOC No. BW-CSA/3) located at this site. The Abandoned UST is approximately 35 feet long by 5 feet in diameter. The tank is constructed of steel and has an estimated capacity of 5,100 gallons. There are several Debris Areas (AOC No. BW-CSA/4) near the facility that contain discarded oil filters and antifreeze containers. A "J" shaped vent pipe was observed on the ground adjacent to one of the concrete foundations. The former connection of this vent pipe could not be located, but it is possible that another UST associated with the vent pipe exists at the facility (SF B-FCSA).

The AOCs at this facility are shown in Figure 3-29 and described on the following pages.



Source: Base map from U.S.G.S. Leuhman Ridge, CA Quadrangle, 1973.

The Earth Technology Corporation

Project No 91-1006

Base-Wide Miscellaneous ESI/RFA

PIRA (Off Range) - Former HiX-4 Target and Former Construction Staging Area

9-93

Figure 3-29

AOC No. BW-CSA/1 Former Construction Staging Area Drain Outfall

INFORMATION SUMMARY: Site File B-FCSA; Photo BW-81

LOCATION: The Drain Outfall is located at the Former Construction Staging Area adjacent to Mercury Boulevard. The Drain Outfall is approximately 30 feet southeast of the building foundation which has the 1-foot-square "pit" and 8-inch drain pipe.

SIZE: The unit includes the area directly adjacent to the 8-inch drain pipe which leads from the old building foundation. Since the exact use of the drain is unknown, it is not known how much of an area was affected by the Drain Outfall.

PROBABLE WASTES: Although the exact use of the building and pit are unknown, wastes may have included solvents used in cleaning, such as carbon tetrachloride, PCE, and TCE; waste oils; some waste fuels; and wash/rinse waste.

CONCERN: Details of the use of this area have not been confirmed. Waste management practices associated with the facility are unknown, but may have included discharge to the ground via the Drain Outfall. The unit would probably have been used during the 1950s.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since content of the waste stream is unknown. The current potential for release is low since the unit is no longer in use.

Air - The potential for release to the atmosphere is low since the unit is no longer in use.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were probably not handled by this unit.

RECOMMENDATION: Further investigation. Sample (PRL 271).

AOC No. BW-CSA/2 Former Construction Staging Area Grease Pits

INFORMATION SUMMARY: Site File B-FCSA; Photo BW-82

LOCATION: The Grease Pits are located in the northernmost building foundation at the Former Construction Staging Area.

SIZE: There are two Grease Pits; each is approximately 12 feet long by 6 feet wide, with an unknown depth. Both are constructed of concrete.

PROBABLE WASTES: Wastes handled in and around these units may have included POL and solvents generated during maintenance and repair of vehicles.

CONCERN: Details of the use of these units have not been confirmed. Waste management practices associated with these units are unknown. During the VSI, the units were observed to be filled with dirt and vegetation. The bottom of the units could not be observed, so it is not known if the units have other connections.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of construction, integrity of the units, specific use and waste management practices associated with the pits are unknown. The current potential for release is low since the units are no longer in use.

Air - The potential for release to the atmosphere is low since the units are no longer in use.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were probably not handled.

RECOMMENDATION: Further investigation. Sample (PRL 271).

AOC No. BW-CSA/3 Former Construction Staging Area Abandoned UST

INFORMATION SUMMARY: Site File B-FCSA; Photo BW-83

LOCATION: The Abandoned UST (Tank No. P049) is located in the southern section of the Former Construction Staging Area that is adjacent to Mercury Boulevard. The unit is partially uncovered and rusted.

SIZE: The Abandoned UST is approximately 35 feet long by 5 feet in diameter. The approximate capacity of the steel UST is 5,100 gallons.

PROBABLE WASTES: Unknown. It is not known if there were any releases associated with its use.

CONCERN: Details of the use of this unit have not been confirmed, but it may have been used to supply fuel to vehicles or the nearby buildings during the 1950s. The integrity of the unit when in use is unknown. Based on field information, it is believed the UST is empty.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of the specific use of the UST and its integrity are unknown. The current potential for release is low since the unit is no longer in use and believed to be empty.

Air - The potential for release to the atmosphere is low since the unit is no longer in use.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were probably not handled by this unit.

RECOMMENDATION: Further investigation. Sample (PRL 271).

AOC No. BW-CSA/4 Former Construction Staging Area Debris Areas

INFORMATION SUMMARY: Site File B-FCSA

LOCATION: The Debris Areas are located on the grounds surrounding the foundations at the Former Construction Staging Area.

SIZE: The unit encompasses the entire Former Construction Staging Area, estimated at several acres.

PROBABLE WASTES: There are rusty oil cans, motor vehicle oil filters, and other rusty metal debris lying on the ground throughout the site. Based on the debris at the unit, wastes disposed of may have included solvents used in cleaning parts, waste fuels, and waste motor oil.

CONCERN: Details of the waste management practices associated with the unit are unknown. The unit was probably used during the 1950s. Based on known waste management practices during the timeframe of use, wastes may have been disposed of directly to the ground.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of waste management practices are unknown. The current potential is low since the unit is no longer in use.

Air - The potential for release to the atmosphere is low since the unit is no longer in use.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were probably not handled by this facility.

RECOMMENDATION: Further investigation. Sample (PRL 271).

FORMER MOJAVE CORPORATION FACILITY

The Former Mojave Corporation Facility is located at T10N, R9W, in the northeastern quarter of Section 24. It is on the northeast side of Rogers Dry Lake, approximately 2 miles north of the former main encampment area of East Camp. Based on old maps, building remains, and reports from longtime Edwards AFB employees, the facility is thought to be the remains of the Mojave Corporation's mining operations (SF B-FMCF; Computer Sciences Corporation, 1991).

The Mojave Corporation mined the northeastern and north central part of Rogers Dry Lake for bentonite clay. According to historical information, "where the deposits had depth, mining was a profitable venture, and the clay mines were active until the acquisition of the land by the Air Force. The Mojave Corporation of Los Angeles and the Maco Construction Company of Clairmont removed thousands of tons of clay from the lakebeds before Air Force acquisition." It is believed the Mojave Corporation stopped their mining operation between 1945 and 1950 (Computer Sciences Corporation, 1991). During the VSI, mines were observed north of Lake Bed Road (Photo BW-55).

The Former Mojave Corporation Facility consists of four building foundations, an underground bunker, two apparently abandoned groundwater wells, an adjacent rubble pile, and other debris (Photo BW-71). The total area of the facility is estimated to be approximately 3 acres. The building foundations are concrete, and three of the four buildings have what appear to be Grease Pits (AOC No. BW-MC/1). Heavy, vertically oriented timbers protrude from the concrete foundations or from the ground adjacent to the foundations. There is a large rubble pile directly adjacent to this area. It appears to be a building that was located within the Mojave Corporation area, which was bulldozed or destroyed in place. Debris is scattered through the area. The remains of the facility are described in more detail below (SF B-FMCF).

Grease Pits: There are three Grease Pits built into the foundations at the Former Mojave Corporation Facility. One is approximately 27 feet long by 3 feet wide, the second is approximately 24 feet long by 3.5 feet wide, and the third is approximately 12 feet long by 3.5 feet wide. These Grease Pits are constructed of concrete and are below ground level, with the tops of the pits flush with the building foundations. During the VSI, all of the Grease Pits were observed to have soils and vegetation in them. The bottoms of the units could not be observed (SF B-FMCF).

Underground Bunker: There is one underground bunker at the facility (Photo BW-74). The bunker is approximately 20 feet long and 10 feet wide and has a vent pipe. According to base representatives, most underground bunkers stored explosives or ammunition; however, it is not known what materials the Mojave Corporation stored in this bunker (SF B-FMCF).

Groundwater Wells: There are two metal casings at the site which terminate above ground and are believed to be groundwater well casings. One well has an opening with an inner diameter of 3 inches; it is within a short length of outer casing at ground level with a diameter of 6

inches. The well is identified on an adjacent stake as Number 807 (Photo BW-75). This well is located south of a rubble pile which is adjacent to the building foundations. The second possible groundwater well has a metal casing with a diameter of 4 inches. It terminates approximately 8 inches above the ground surface. This well does not appear to be typical of others seen on base; however, based on field observations the casing does not seem to be an UST fill pipe (Photo BW-76). This second well is located southwest of the largest building foundation on the site, adjacent to a pile of dirt (SF B-FMCF).

Underground Storage Tank: The capped-off fill pipe of an Abandoned UST (AOC No. BW-MC/2) is located approximately 30 feet west of the largest building foundation on the site (SF B-FMCF).

Rubble Piles: There are two rubble piles associated with the facility. The smaller rubble pile is located approximately 75 feet north of Well Number 807. It appears this rubble pile was a building that was bulldozed off to one side. Concrete and wooden beams make up most of the debris. The second rubble pile is approximately 1.5 miles northeast of the site on the northern side of Lakebed Road. This rubble pile is composed of reinforced concrete, wood debris and several rubber tires. The second rubble pile is located on the dry lakebed and the bulldozer marks of trailing debris can be seen leading up to the rubble pile. During the VSI, no staining of the desert soils was evident (SF B-FMCF).

The AOCs located at the Former Mojave Corporation Facility are shown in Figure 3-23 and described on the following pages.

AOC No. BW-MC/1 Former Mojave Corporation Facility Grease Pits

INFORMATION SUMMARY: Site File B-FMCF; Photos BW-72 and BW-73

LOCATION: The Grease Pits are located at three building foundations at the Former Mojave Corporation Facility. The three Grease Pits are constructed of concrete and are below ground level, with the tops of the pits flush with the buildings' foundations.

SIZE: One Grease Pit is approximately 27 feet long by 3 feet wide, one is approximately 24 feet long by 3.5 feet wide, and one is approximately 12 feet long by 3.5 feet wide.

PROBABLE WASTES: The probable wastes at this unit include fuels, waste motor oil, and solvents used in cleaning and maintaining vehicles.

CONCERN: The Grease Pits were used for performing maintenance and repair work on vehicles. Typically, mechanics working on motorized vehicles stood in the Grease Pits and collected wastes in containers. Based on reports of past waste management practices in other areas of the base, some wastes may have been released directly to soils surrounding the building foundations. During the VSI, all of the Grease Pits were observed to have soils and vegetation in them. The bottoms of the units could not be observed so it is not known if the units have concrete floors or other connections, or if they are heavily stained. No staining of the surrounding ground was observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since waste disposal practices associated with the unit are not well known. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the wastes potentially handled are not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 272).

AOC No. BW-MC/2 Former Mojave Corporation Facility Abandoned UST

INFORMATION SUMMARY: Site File B-FMCF; Photo BW-77

LOCATION: The Abandoned UST (Tank No. P048) is located approximately 30 feet west of the largest building foundation on the site.

SIZE: The size of the Abandoned UST is not known because it is underground and there are no records regarding the unit.

PROBABLE WASTES: Unknown. The Abandoned UST may have contained leaded gasoline, diesel fuel, kerosene, or heating oil.

CONCERN: The exact use of the unit and its integrity when in use are unknown. The period of operation is unknown, but the UST may have been in use until the late 1940s, when the Mojave Corporation closed operations on Rogers Dry Lake. It is not known if the unit released to the underlying soils.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since the use and integrity of the unit are unknown. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since the unit is no longer in use.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the products that were probably stored are not expected to degrade significantly to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 272).

HISTORIC WELLS

Throughout Edwards AFB there are numerous Historic Wells that preceded development of the base. Many of the wells are unsecured and may provide access for contamination of groundwater supplies. Under the Well Abandonment Support Program, Computer Sciences Corporation (CSC) was tasked by the Air Force to conduct a literature search to identify known or suspected historic well locations throughout the base. Wessel, T. and Howard, V. (1990) reported that as many as 474 wells are potentially located within the Edwards AFB boundaries. Of these, 199 wells were field verified, 80 wells could not be located in the field, and 195 remained to be checked. A total of 394 potential well locations were recorded in a database and plotted on 7.5-minute United States Geological Survey (USGS) quadrangle maps. The database includes the following information where available: assigned Edwards AFB case number; location (township, range, section); USGS well number; date of well completion; well depth; water depth; elevation; stick-up; possible historic significance; and any additional comments (Wessel and Howard 1990; Jacobs Engineering Group, Inc., 1992a).

Two subsequent base-wide well identification activities were begun in 1992 for Edwards AFB under the well abandonment program. The first of these activities was an assessment of the well locations for biological and cultural resources prior to temporarily capping some of the 199 field verified wells identified in Wessel and Howard (1990). A total of 187 wells were assessed in this activity: 173 were included in the original list of 199, and the remaining 14 were other wells not included in this list (Earth Technology, 1992c).

The second activity was to provide accurate locations (to within 3 meters) of all the historic wells on base using global positioning system (GPS) techniques, and to supplement the resource assessments of all well locations on base for the permanent abandonment of wells. A total of 465 well locations were evaluated. Forty well sites were not found; the other 425 sites were located and historic wells were found at 311 of these sites. In the Base-Wide Miscellaneous OU (OU 7), there were a total of 125 Historic Wells identified (Jacobs Engineering Group, Inc. 1992a; EAFB-D-78). These wells are covered by Operable Unit 3 and are therefore not described in this document.

Edwards AFB has embarked on a program to secure these wells and eventually abandon them properly to preclude intentional or accidental transport of contaminants. There have been reports of unauthorized disposal of potentially hazardous materials in wells along the perimeter of the base. For this reason, the Historic Wells are considered areas of concern warranting further investigation.

JETTISON AREAS

There are three jettison areas at Edwards AFB, which are operated under the jurisdiction of the 6521st Range Squadron operations management office in Building 1440 (SF B-JA):

JA-1, a 1-square mile area at the northeastern end of Rogers Dry Lake within the old PB7 target area (T10N, R8W and 9W);

JA-2, a 1-square-mile area covering a large portion of Buckhorn Dry Lake, just outside the gate leading to Rosamond (T9N, R10W); and

JA-3, a 1.5-by 1.5-mile area in the extreme northeastern corner of the base, near Kramer Junction within the PB6 range (T10N, R6W, and 7W).

The three jettison areas have been in use since the 1950s, and serve as drop zones for fuel tanks and unexpended ordnance in the event that materials need to be jettisoned from low-flying aircraft immediately before an emergency landing on Rogers Dry Lake. Current personnel could not remember any instances when materials were ever jettisoned (SF B-JA).

There are no SWMUs or AOCs associated with the Jettison Areas.

MAIN BASE LANDFILLS

Two areas in the Main Base have served as landfills. The Main Base Abandoned Sanitary Landfill (SWMU No. BW-LF/1) is a 54-acre, inactive landfill identified as IRP Site 3 (Figure 3-22). The Main Base Active Sanitary Landfill (SWMU No. BW-LF/2) is a 66-acre active landfill identified as IRP Site 4 (Figure 3-30) (Earth Technology, 1991b).

Main Base Abandoned Sanitary Landfill

Background

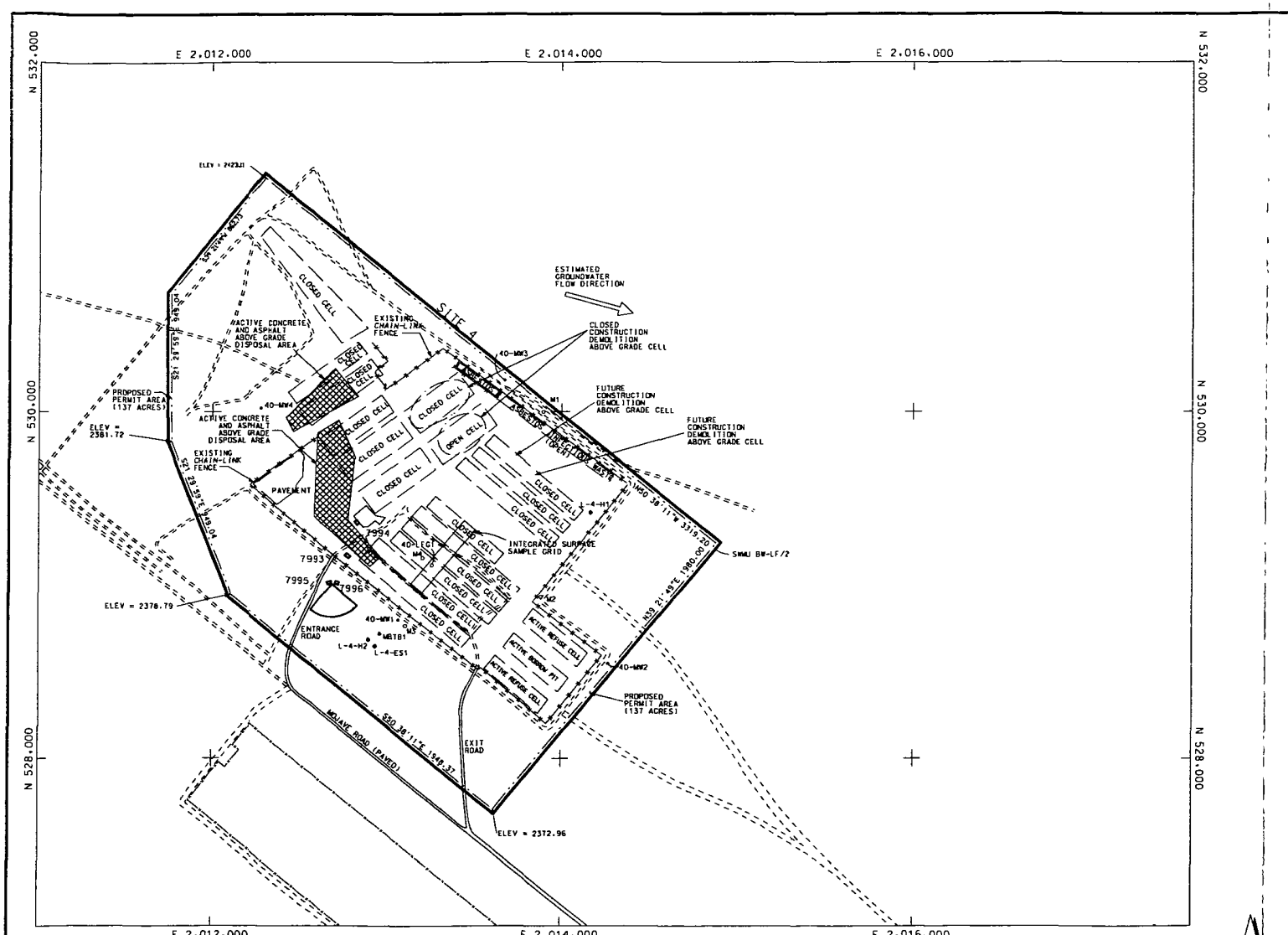
The Main Base Abandoned Sanitary Landfill is located in the western portion of the Main Base area, approximately 1,900 feet northwest of the intersection of Forbes Avenue and Mojave Boulevard. The southern limit of the landfill is bordered by Mojave Boulevard; some stables are located about 800 feet further south. The 54-acre inactive landfill was used by the entire base from the mid-1960s until 1976 for waste disposal. Reportedly, fires within waste materials have occurred several times at the landfill since it was closed in 1976 (Earth Technology, 1991b).

When the Main Base Abandoned Sanitary Landfill was active, the cut-and-cover method of disposal was used, where trenches were dug to contain the refuse and a 6-inch layer of soil was applied at the end of each operating day. The site was reported to contain 10 closed cells, a pet cemetery, and a covered construction material disposal area. The cells were cut into unconsolidated materials and weathered bedrock. They were thought to be 500 feet long by 50 feet wide and to vary in depth from 15 feet to 45 feet (Earth Technology, 1991b). However, based on a review of 1967, 1979, and 1992 aerial photographs, there may be as many as 23 cells, ranging in length from 150 feet to 900 feet.

Previous Investigations and Sampling Results Summary

Several investigations conducted under the IRP program have included studies at the Main Base Abandoned Sanitary Landfill (IRP Site 3). A site evaluation conducted in 1981 during a Phase I investigation found that both domestic and commercial wastes were deposited in the landfill. It was also considered likely that hazardous wastes and banned pesticides had been deposited in the landfill. However, the investigation concluded that the area had a low potential for groundwater contamination (Earth Technology, 1991b).

During a Phase II Confirmation study conducted in 1982, two surface soil samples, 3A and 3B, were collected from two locations adjacent to the landfill. A background soil sample was taken north of Site 3 in a 1984 Phase II, Stage 2 Survey. Samples 3A and 3B were found to contain concentrations of antimony, chromium, and lead exceeding the background soil concentrations by three-fold. Chlordane, DDE, and DDT were found in Sample 3A at respective concentrations of 19 ppb, 6 ppb, and 16.9 ppb. Except for 20 ppb Arochlor 1254,



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Main Base Active Sanitary Landfill

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no pesticides, PCBs, or herbicides were detected in the background soil sample (Earth Technology, 1991b).

In 1990, a Phase I Water Solid Waste Assessment Test (SWAT) was conducted under California Assembly Bill 3525. The Water SWAT included conducting a seismic refraction survey to identify the thickness of the alluvial deposits, and drilling two boreholes (OMTB1 and OMTB1-A) to collect soil samples. The seismic survey indicated that the thickness of the uppermost stratum is quite variable due to the irregular character of the interface between the weathered bedrock and the solid granitic bedrock. Soil samples were collected at 5 feet, 15 feet, 25 feet, and 35 feet from Borehole OMTB1 and at 5 feet from Borehole OMTB1-A (terminated at 10 feet when refusal was encountered). The metal concentrations in soil samples from both boreholes were found to be at relatively low levels, except for arsenic and copper, which were notably higher than concentrations detected in Samples 3A and 3B. Purgeable organic compounds (EPA Method 8010/8020) were not detected in any soil samples from Boreholes OMTB1 and OMTB1-A. The installation of four monitoring wells was proposed for Phase II of the Water SWAT, with groundwater samples to be collected in two rounds within 180 days following well installation. This Phase II study is planned for 1993 (Earth Technology, 1991b).

An Air SWAT was also conducted in January 1990 under California Assembly Bill 3525. An integrated surface sample was collected and analyzed with the following results: Attachment 1 compounds, which include benzene, methylene chloride, tetrachloroethane, 1,1,1-trichloroethane, and trichloroethene, ranged in concentration from 28 ppb to 850 ppb. The fixed gas characterization showed 13 percent methane, 20 percent carbon dioxide, 59 percent nitrogen, and 11 percent oxygen. Based on these analytical results, the U.S. Air Force posted signs around the site warning of hazardous materials (Earth Technology, 1991b). However, the results reported appear to be suspect; concentrations of both trace and fixed gases are in a range typical for a shallow probe sample of landfill gas, for a landfill located in a dry environment, not what would be expected from an integrated sample taken above ground.

During a site traverse with a flame ionization detector (FID), numerous readings in excess of the analytical limit of 1,000 ppm were observed along fissures, particularly in the southeastern portion of the landfill. By contrast, readings taken at grid points spaced 25 feet apart ranged from 1 ppm to 55 ppm, indicating that most emissions from the landfill are escaping through fissures (Earth Technology, 1991b).

Because of the inconsistencies in the results obtained in the initial Air SWAT, a second Air SWAT is planned for 1993.

Main Base Active Sanitary Landfill

Background

The Main Base Active Sanitary Landfill is located in the western portion of the Main Base area, approximately 1 mile northwest of the intersection of Forbes Avenue and Mojave Boulevard. The 66-acre landfill has been in operation since 1976, serving all parts of the Edwards AFB installation (Earth Technology, 1991b).

Site personnel use the cut-and-cover method of disposal, where trenches are dug to contain the refuse and a 6-inch layer of soil is applied at the end of each operating day. The site includes 21 closed cells, two open cells and a pet cemetery. Trenches are typically 800 feet long by 50 feet wide and vary in depth from 15 feet to 45 feet, with trenches cut into alluvium and the underlying weathered bedrock. Refuse is separated into common trash, construction materials, asphalt and concrete, infectious waste, asbestos, and dead animals. Typically, there is an open trench or other designated site for each category of waste (Earth Technology, 1991b).

Previous Investigations and Sampling Results

Several investigations conducted under the IRP program have included studies at the Main Base Active Landfill (IRP Site 4). A site evaluation conducted in 1981 during a Phase I investigation concluded that the area had a low potential for groundwater contamination. It was considered doubtful that any chemical wastes had been or are being disposed in the landfill due to strict U.S. Air Force controls and regulations governing chemical waste management practices. Furthermore, leachate generation was expected to be minimal due to the arid climate (Earth Technology, 1991b).

In 1990 a Phase I Water SWAT was conducted under California Assembly Bill 3525. The water SWAT included the following: a seismic refraction survey to identify the thickness of the alluvial deposits, and one borehole (MBTB1) drilled to collect soil samples. The seismic survey indicated that the thickness of the uppermost stratum is quite variable due to the excavation of the waste disposal cells and also to the original irregular character of the interface between the weathered bedrock and the solid granitic bedrock. Soil samples were collected at 26 feet and 50 feet from Borehole MBTB1 and at 5 feet from a gas migration well, M3. The metal concentrations in soil samples showed constituent concentrations consistent with typical background levels for soils in the area. Purgeable organic compounds (EPA Method 8010/8020) were not detected in any soil samples from Borehole MBTB1 or Gas Well M3. The installation of four monitoring wells was proposed for Phase 2 of the Water SWAT, with groundwater samples to be collected quarterly for 1 year following well installation (Earth Technology, 1991b).

An Air SWAT was also conducted in January 1990 under California Assembly Bill 3525. Results of analyses on the integrated surface sample and landfill gas samples obtained from Site 4 are summarized as follows. The Attachment 1 compounds were all below detection limits

except for carbon tetrachloride (0.24 ppb), tetrachloroethane (0.24 ppb) and 1,1,1-trichloroethane (0.92 ppb) in the integrated surface sample. The fixed gas characterization (80 percent nitrogen, 20 percent oxygen) was typical of normal atmospheric composition. These data are considered suspect, since organic gas in excess of 1,000 ppm as methane was detected by FID in Wells L1 (landfill gas) and M3 (gas migration well). During the site traverse with the FID, all readings were well below 50 ppm (Earth Technology, 1991b). Because of the inconsistencies in the results obtained in the initial Air SWAT, a second Air SWAT is planned.

An investigation was begun in 1991 to obtain a revised Solid Waste Facility Permit (SWFP), to partially fulfill requirements of the Phase II SWAT, and to provide input for the preliminary landfill closure plan.

Between October and November 1991, four groundwater monitoring wells (40-MW1 to 40-MW4) were installed. Well depths ranged from 123 feet to 180 feet. Groundwater was encountered in unweathered, fractured granitic bedrock in all four wells, at depths ranging from 122 feet to an estimated 158 feet. Groundwater production was low in all wells, particularly in Well 40-MW3. Water levels rose in all wells above the depth where water was first encountered. Groundwater was found to dip toward the southeast (toward Rogers Dry Lake), at a gradient of 0.003 feet/foot (Earth Technology, 1992b).

Three soil samples were analyzed from each well. No volatile organic compounds (EPA Method 8240), semivolatile organic compounds (EPA Method 8270), PCBs or organochlorine pesticides (EPA Method 8080) were detected in any of the soil samples. Low levels of total petroleum hydrocarbons (TPH) (EPA Method 418.1) were detected at concentrations ranging from less than 5.0 mg/kg to 60.47 mg/kg. Low levels of two chlorinated herbicides (EPA Method 8150) were also detected (2,4-D at 0.7 mg/kg to 0.8 mg/kg and Dinoseb at 0.8 mg/kg to 1.0 mg/kg) in soil from Well 40-MW4. All but two of the herbicide analyses were considered to be invalid. With the exception of selenium, silver, and thallium, all 23 metals analyzed for were detected in the soil samples, but at levels well below California Title 22 disposal limits (Earth Technology, 1992b).

Groundwater sampling was performed in October, November, and December 1991. Well 40-MW1 was resampled in January 1992 for volatile organic compounds (EPA Method 8240) only. Freons (dichlorodifluoromethane and trichlorofluoromethane) were detected in Well 40-MW1 in all sampling rounds at levels below California MCLs. Trichloroethene (TCE) was detected in Well 40-MW1 in two out of three sampling rounds, and in Well 40-MW4 in one sampling round. The MCL for TCE (5 μg/l) was exceeded in Well 40-MW1 at 16 μg/l and in Well 40-MW4 at 8 μg/l, in December 1991. The only semivolatile organic compound (EPA Method 8270) detected in the groundwater was dimethyl phthalate at 8 μg/l in Well 40-MW2 in December 1992 (Earth Technology, 1992b).

TPH (EPA Method 418.1) was detected in Well 40-MW1 at concentrations ranging from 0.5 mg/l to 1.1 mg/l, and in Well 40-MW2 at 1.2 mg/l (December only). No organochlorine

pesticides or PCBs (EPA Method 8080) or chlorinated herbicides (EPA Method 8150) were detected in groundwater samples (Earth Technology, 1992b).

Metal concentrations were determined for 25 metals on both filtered and non-filtered samples. California MCLs were exceeded for aluminum, chromium, iron, lead, and manganese in one or more wells. Metal concentrations were greatest in Well 40-MW3, which is up gradient of groundwater flow, suggesting that these metals are naturally occurring in the rock (Earth Technology, 1992b).

General water quality parameters were in the range found in base production wells, with the exception of turbidity and specific conductance. Due to low recharge rates, wells could not be developed fully to reduce these values to within California secondary MCLs (Earth Technology, 1992b).

Potential sources of the low levels of contamination found in the soils and groundwater at the landfill include landfill gas condensates and leachate. The installation of one groundwater monitoring well inside the landfill and one well outside the landfill for a background sample was recommended to evaluate if the contamination is leachate derived. Two sampling rounds at the two new wells and four existing wells were proposed using a different laboratory to determine if the TCE contamination seen in Wells 40-MW1 and 40-MW4 is a laboratory artifact (Earth Technology, 1992b).

The landfill SWMUs are further described on the following pages.

SWMU No. BW-LF/1 Main Base Abandoned Sanitary Landfill

INFORMATION SUMMARY: Earth Technology, 1991b; Earth Technology, 1992b

LOCATION: The landfill (also identified as IRP Site 3) is located 3 miles west of the Main Base area along Mojave Boulevard.

SIZE: The landfill is 54 acres and includes as many as 23 closed cells, a pet cemetery, and a covered construction debris disposal area.

MATERIAL: The landfill cells were constructed using the cut-and-cover method. Natural soils were used for cover. There is no liner.

CONNECTIONS: None.

PURPOSE: The landfill received domestic and commercial waste from base operations from the mid-1960s until 1976.

START UP: Mid-1960s. **DEACTIVATED:** 1976.

WASTES MANAGED: The unit managed various domestic and commercial wastes from base operations. It is possible that hazardous wastes and pesticides were deposited in the landfill. Reportedly, bowsers containing waste fuel were drained into the unit on occasion. There are also anecdotal reports that radar tubes with low-level radiation were disposed in the unit.

RELEASE CONTROLS: The landfill is covered with natural soil materials.

HISTORY OR EVIDENCE OF RELEASE: Results of a previous IRP investigation and Water Solid Waste Assessment Test (SWAT) indicate the possible release of chlordane, DDE and DDT to soils. Results of an Air SWAT indicate the release of benzene, methylene chloride, tetrachloroethene, 1,1,1-trichloroethane, trichloroethene, and methane to the atmosphere.

VSI COMMENTS: The unit has desert vegetation growing on it.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high since the unit is unlined and results of limited soil sampling indicate contamination by pesticides.

Air - The potential for release to the atmosphere is high since SWAT results reported release to the atmosphere from fissures.

Subsurface Gas - The potential for generation of subsurface gas (methane) is high since methane gas was detected during the Air SWAT investigation.

RECOMMENDATION: Further investigation. Sample (Site 3). Further sampling of the air, groundwater and soil at the Main Base Abandoned Sanitary Landfill is planned during the Phase II SWAT. A geophysical survey is recommended to delineate cell locations.

SWMU No. BW-LF/2 Main Base Active Sanitary Landfill

INFORMATION SUMMARY: Earth Technology (1992b); Photos BW-100 to BW-102

LOCATION: The unit (also identified as IRP Site 4) is located approximately 3 miles west of the Main Base area, along Mojave Boulevard, and west of the Main Base Abandoned Sanitary Landfill (SWMU No. BW-LF/1).

SIZE: The unit is 66 acres, including 21 closed cells, two open cells, and a pet cemetery. Trenches are typically 800 feet long by 50 feet wide and vary in depth from 15 feet to 45 feet.

MATERIAL: Trenches are cut into alluvium and the underlying weathered bedrock. Local soils are used for cover. There is no liner.

CONNECTIONS: None.

PURPOSE: The landfill serves as the solid waste landfill for all parts of the Edwards AFB installation.

START UP: 1976. **DEACTIVATED:** Currently active.

WASTES MANAGED: The refuse received includes common trash, construction materials, asphalt and concrete, infectious waste (until 1990), asbestos (until 1990), and dead animals.

RELEASE CONTROLS: Active cells are covered daily with local soils.

HISTORY OR EVIDENCE OF RELEASE: Sampling during the Phase II Water SWAT investigation showed soils to contain low levels of total petroleum hydrocarbons (TPH) at concentrations ranging from less than 5.0 mg/kg to 60.47 mg/kg. Low levels of two chlorinated herbicides were also detected (2,4-D at 0.7 mg/kg to 0.8 mg/kg and Dinoseb at 0.8 mg/kg to 1.0 mg/kg) in soil from Well 40-MW4. Metals in soils were found to be well below California Title 22 disposal limits.

In groundwater, Freons were detected in Well 40-MW1. Trichloroethene was detected in Well 40-MW1 in two of three sampling rounds and in Well 40-MW4 in one sampling round. TPH was detected in Well 40-MW1 in all three sampling rounds, at concentrations ranging from 0.5 mg/l to 1.1 mg/l, and in Well 40-MW2, in one sampling round, at 1.2 mg/l.

Gas analyses performed during the Air SWAT investigation indicated low levels of carbon tetrachloride (0.24 ppb), tetrachloroethene (0.24 ppb), and 1,1,1-trichloroethane (0.92 ppb). Using a portable flame ionization detector, organic gas in excess of 1,000 ppm methane was detected in gas migration monitoring Well M3 and landfill gas Well L1.

VSI COMMENTS: One open, active cell was observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soil and groundwater is moderate since, although the unit is unlined, sampling results have indicated only low concentrations of contaminants obtained during the Phase II Water SWAT investigation in soils and groundwater.

Air - The potential for release to the atmosphere is moderate since low levels of gas were detected during the Air SWAT investigation.

Subsurface Gas - The potential for generation of subsurface gas (methane) is high since methane gas was detected during the Air SWAT investigation.

RECOMMENDATION: Further investigation. Sample (Site 4). Further sampling of the air, groundwater, and soil around the landfill site is planned as part of the Phase II SWAT.

NORTH BASE MISCELLANEOUS AREAS

There are a number of miscellaneous SWMUs and AOCs near the North Base. They are somewhat removed from the North Base complex and are not associated with any specific building or facility. These units are described below.

Two areas used for the disposal of asbestos-containing waste are located on the southern side of North Base Road, southwest of North Base. The North Asbestos Waste Pile (SWMU No. BW-NBM/1) is near the northwestern corner of a field of recently installed radar reflectors. The South Asbestos Waste Pile (SWMU No. BW-NBM/2) is near the southeastern corner of the radar reflectors. Reportedly, in both units, construction materials were disposed of after the buildings which contained them burned down years ago, possibly in the 1950s. To the northeast of the South Asbestos Waste Pile are several larger piles of soil adjacent to holes from which the soil was apparently excavated. The purpose of these holes and soil piles could not be determined (SF B-NBMA).

In the same vicinity as the Asbestos Waste Piles described above, a 1987 document summarizes anecdotal reports of a Drum Disposal Pit (AOC No. BW-NBM/1). The unit was reportedly located approximately 2,000 feet southeast of the intersection of North Base Road and Lake Shore Drive. An unknown number of drums may have been disposed in the unit during the 1950s. The unit was not found during the 1992 VSI (SF B-NBMA; EAFB-D-80).

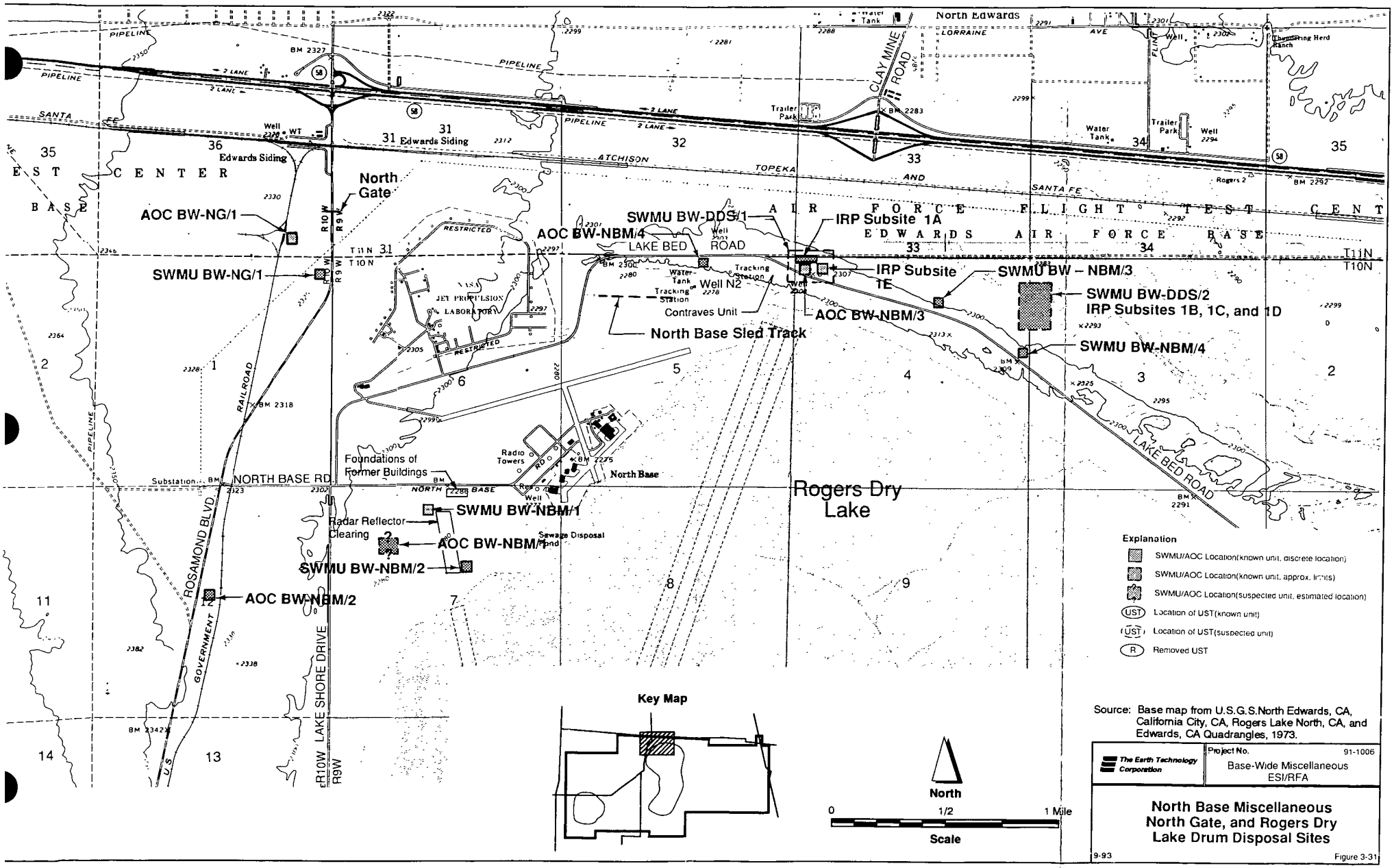
Along the eastern side of Rosamond Boulevard, south of North Base Road, is a depression that, based on anecdotal reports from long-time Edwards AFB personnel, may be the location of an Automobile Disposal Area (AOC No. BW-NBM/2). Although it is not certain this is the unit referred to, the location seems to match descriptions given, and debris is consistent with what might be expected at such a site (SF B-NBMA; EAFB-D-85).

Approximately 1 mile northeast of North Base are the remains of what is believed to be a Former Missile Launch Site (AOC No. BW-NBM/3), located southwest of IRP Subsite 1A (part of SWMU No. BW-DDS/1). The unit, whose location corresponds to reports by long-time employees of an abandoned Regulus 2 missile launch site, is at the northwestern corner of the intersection of Lake Bed Road and a former bed road which, if followed north, would become Clay Mine Road. The facility consists of a rectangular concrete pad with a steel foundation running lengthwise down its center. At the western end of the pad is an excavation, and just to the north is a metal plate structure which may have been a blast deflector moved from the facility (SF B-NMBA; EAFB-D-85).

Less than 0.5 mile west of the Former Missile Launch Site on Lake Bed Road is the site of a Former Leaking Transformer (AOC No. BW-NBM/4). The unit was removed in 1987 and all that remains is a stained concrete pad surrounded by a security fence (SF B-NBMA).

Approximately 0.5 mile east of the Former Missile Launch Site, on the northern side of Lake Bed Road, is a Drum Disposal Area (SWMU No. BW-NBM/3). The unit is located between the area containing IRP Subsites 1A and 1E (SWMU No. BW-DDS/1), and the area containing IRP Subsites 1B, 1C, and 1D (SWMU No. BW-DDS/2). The unit contains some heavy, twisted steel and over 40 drums partially buried in the sand. Approximately 0.5 mile southeast of the Drum Disposal Area on Lake Bed Road is a Dump Site (SWMU No. BW-NBM/4). It appears to have been used mainly as a disposal area for trash; however, there are 5-gallon cans and other debris that might indicate the disposal of hazardous waste (SF B-NBMA). Miscellaneous debris including 55-gallon drums, was observed along the length of Lake Bed Road (Photo BW-54).

The miscellaneous SWMUs and AOCs near North Base are shown in Figure 3-31, and described on the following pages.



Source: Base map from U.S.G.S.North Edwards, CA, California City, CA, Rogers Lake North, CA, and Edwards, CA Quadrangles, 1973.

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North Base Miscellaneous North Gate, and Rogers Dry Lake Drum Disposal Sites

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Figure 3-31

SWMU No. BW-NBM/1 **North Base Miscellaneous Areas North Asbestos Waste Pile**

INFORMATION SUMMARY: Site File B-NBMA; Photo N-5

LOCATION: The North Asbestos Waste Pile is located on the southern side of North Base Road, southwest of North Base. It is located approximately 50 feet west of the northwestern corner of a clearing which contains an array of recently installed radar reflectors. The northern end of the clearing is located approximately 0.1 mile down a dirt access road which runs south from the foundation of a former building on the south side of North Base Road, approximately 1 mile east of the intersection of North Base Road and Rosamond Boulevard.

SIZE: The unit occupies an area measuring approximately 10 feet by 10 feet and is within a larger area of disturbed earth measuring about 30 feet by 30 feet.

MATERIAL: The unit consists of an area of disturbed, mounded earth. Asbestos-containing material is reportedly buried beneath the largest pile of soil in the area. At the time of the 1992 VSI, the pile was partially covered by a white substance, reportedly an encapsulating or soil-stabilizing compound.

CONNECTIONS: None.

PURPOSE: The unit originally was a debris pile from a building which burned down years ago, possibly in the 1950s. Around 1990, when the adjacent radar reflector array was being installed, the rubble was buried under an earthen pile and encapsulated.

STARTUP: 1950s. **DEACTIVATED:** 1990.

WASTES MANAGED: The unit reportedly manages asbestos-containing material from a burned building. The materials may include flooring, siding, roofing, and asbestos cement.

RELEASE CONTROLS: The unit is buried under a pile of soil that is partially covered with a white, soil-stabilizing substance.

HISTORY OR EVIDENCE OF RELEASE: There is no known history of release from the unit.

VSI COMMENTS: The stabilizing compound appeared to be eroding off the soil cover.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the waste is not mobile.

Air - The potential for release to the atmosphere is low since the waste is covered by soil.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the waste handled does not generate such gases.

RECOMMENDATION: No further investigation.

SWMU No. BW-NBM/2 **North Base Miscellaneous Areas South Asbestos Waste Pile**

INFORMATION SUMMARY: *Site File B-NBMA; Photos N-6, N-7, and BW-46*

LOCATION: The South Asbestos Waste Pile is located on the southern side of North Base Road, southwest of North Base. It is located approximately 200 feet southeast of the southeastern corner of a clearing which contains an array of recently installed radar reflectors. The southern end of the clearing is located approximately 0.4 mile down a dirt access road which runs south from the foundation of a former building on the southern side of North Base Road, approximately 1 mile east of the intersection of North Base Road and Rosamond Boulevard. The unit is approximately 200 feet south of a dirt road which heads east from near the southeastern corner of the clearing.

SIZE: The unit occupies an area measuring approximately 150 feet by 30 feet. The unit consists of numerous small mounds of rubble, each about 1 foot high.

MATERIAL: The unit consists of an area of small mounds located on the ground surface.

CONNECTIONS: None.

PURPOSE: The unit contains debris from a building which burned down years ago, possibly in the 1950s.

STARTUP: 1950s. **DEACTIVATED:** Unknown.

WASTES MANAGED: The unit reportedly manages asbestos-containing material from a burned building. The materials may include flooring, siding, roofing, and asbestos cement.

RELEASE CONTROLS: There are no release controls; the rubble piles are not covered.

HISTORY OR EVIDENCE OF RELEASE: Since the unit is not covered, it may release asbestos to the atmosphere when the wind picks up dust.

VSI COMMENTS: Much of the rubble visible was apparently asbestos, since other materials would have burned in the building fire. There was also broken glass and charred wood in the rubble.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since the waste is not mobile.

Air - The potential for release to the atmosphere is moderate since the waste is not covered.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the waste handled does not generate such gases.

RECOMMENDATION: Further investigation. Remediate (Site 273). Encapsulate waste rubble as at SWMU No. BW-NBM/1.

SWMU No. BW-NBM/3 **North Base Miscellaneous Areas Drum Disposal Area**

INFORMATION SUMMARY: Site File B-NBMA; Photos N-3 and N-12 to N-15

LOCATION: The Drum Disposal Area is located on the northern end of Rogers Dry Lake. The unit is located approximately 200 feet north of Lake Bed Road, approximately 0.5 miles east of the portable CONTRAVES unit that is located on the southern side of Lake Bed Road [or about 1 mile east of the Former Leaking Transformer (AOC No. BW-NBM/4)]. The unit cannot be seen from the road since a small ridge on the northern side of the road obstructs the view. From the top of the ridge, the only evidence of the unit is a small amount of rusted steel protruding above the desert vegetation. The drums are located on the western side of the protruding steel wreckage.

SIZE: The area of visible drums is approximately 50 feet long and 10 feet wide. Aerial photographs from 1979 and 1992 show what appears to be the unit; based on the 1979 photograph a disturbed area surrounds the drums.

MATERIAL: The unit consists of over 40 steel 55-gallon drums, many half buried in the ground. On the eastern end of the unit is a pile of heavy steel beams and other components, twisted as if from an accident.

CONNECTIONS: None.

PURPOSE: The area was apparently used for disposing of drums and other debris.

STARTUP: Unknown. **DEACTIVATED:** Before 1979.

WASTES MANAGED: The specific types of waste managed by the unit are unknown; however, some material that looked like tar or asphalt was observed on the ground and around the openings of several drums. Some possible asbestos-containing material was located on the ground near the twisted metal.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Judging by the tar-like substance on the ground, some waste was released to the soils.

VSI COMMENTS: There were 43 drums visible, approximately half of which had no tops. Judging by the extent to which some were buried, there may be others completely buried. All the drums were thoroughly rusted except for one which appeared to be galvanized metal. No writing was observed on the drums. Several of the open drums contained what appeared to be a concrete-like substance; in one case the substance was light green. Some of the drums had

bulging tops, but it could not be determined if any of the closed drums still contained material. One of the drums had a dispensing spigot attached to a bunghole.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high since evidence of release to the ground was seen. The current potential is low since the unit is no longer in use.

Air - The potential for release to the atmosphere is low since any volatile wastes probably would have evaporated or leached into the ground long ago.

Subsurface Gas - The potential for generation of subsurface gas (methane) is unknown since it is unknown if organic materials may have been buried in the unit.

RECOMMENDATION: Further investigation. Conduct geophysical survey. Sample (PRL 274).

SWMU No. BW-NBM/4 **North Base Miscellaneous Areas Dump Site**

INFORMATION SUMMARY: Site File B-NBMA; Photo N-4

LOCATION: The Dump Site is located on the northern end of Rogers Dry Lake. The unit is located north of Lake Bed Road, approximately 1 mile east of the portable CONTRAVES unit that is located on the southern side of Lake Bed Road [or about 1.5 miles east of the Former Leaking Transformer (AOC No. BW-NBM/4)]. The unit is below the level of the road, and is across the street from the wreckage of what was reported to be a "powered glider."

SIZE: The unit occupies an area measuring approximately 30 feet by 100 feet. Trash was observed in piles up to about 4 feet high.

MATERIAL: The unit consists of trash piled on bare ground.

CONNECTIONS: None.

PURPOSE: The unit was apparently used as a dump. It appears that trash was piled on the ground rather than buried. Some of the rubble shows evidence of having been burned. The unit can be seen in 1979 and 1992 aerial photography.

STARTUP: Unknown. **DEACTIVATED:** Before 1979.

WASTES MANAGED: Based on the rubble that can be seen, the unit was used for the disposal of domestic, construction, and industrial trash. There are numerous 5-gallon and smaller cans; however, the former contents of the cans could not be determined during the VSI.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: The history of release is unknown since the use of the unit is unknown. If hazardous waste or constituents were handled, they could have been released to the underlying ground.

VSI COMMENTS: There was no evidence of release to the ground. The unit contained numerous rusted metal cans, other rusted steel debris, and concrete. The unit was overgrown and appeared not to have been used in years.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since the use of the unit is unknown. The current potential is low since it is no longer used.

Air - The potential for release to the atmosphere is low since no volatile waste was observed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is unknown since it is not known if waste was buried underground.

RECOMMENDATION: Further investigation. Sample (PRL 275).

AOC No. BW-NBM/1 **North Base Miscellaneous Areas Drum Disposal Pit**

INFORMATION SUMMARY: Site File B-NBMA; Document EAFB-D-80

LOCATION: A 1987 document describes anecdotal reports of a Drum Disposal Pit located approximately 2,000 feet southeast of the intersection of North Base Road and Lake Shore Drive. The unit was not found during the 1992 VSI.

SIZE: Unknown.

PROBABLE WASTES: Wastes reportedly disposed of in the unit included aniline and furfuryl alcohol. Quantities are unknown.

CONCERN: The 1987 document reports that from approximately 1950 to 1955, an unknown quantity of used and ruptured 55-gallon drums containing the above wastes were stored and/or buried in a pit at this location. Some leakage from the drums was reported. From approximately 1955 to 1968, copper tubing and stainless steel fittings were also buried in pits in this area.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since the anecdotal report is vague and the unit was not located. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: No further investigation. The unit could not be found.

AOC No. BW-NBM/2 **North Base Miscellaneous Areas Automobile Disposal Area**

INFORMATION SUMMARY: Site File B-NBMA; Photos N-8 and N-9; Document EAFB-D-85

LOCATION: The unit is located on the eastern side of Rosamond Boulevard, approximately 0.5 mile south of North Base Road. It is adjacent to a cut made in the terrain to allow level construction of Rosamond Boulevard. The unit is in a depression bounded by Rosamond Boulevard on the west and railroad tracks on the east.

SIZE: The unit is a depression in the ground measuring approximately 300 feet by 300 feet by 10 feet deep.

PROBABLE WASTES: According to longtime personnel at Edwards AFB, automobiles were buried in the unit. Associated with the automobiles may have been oil, gasoline, antifreeze, and other fluids remaining in the vehicles when buried.

CONCERN: Based on two separate anecdotal reports from long-time employees, a large depression near the North Base was used for the disposal of old automobiles in the 1940s or 1950s. Although it is not certain this is the unit referred to, the location seems to match descriptions given, and debris is consistent with what might be expected at such a site. At the time of the VSI in 1992, half buried pieces of rusted sheet metal, a tire, a broken windshield, several 5-gallon containers, and some possible asbestos were observed in the unit.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since the exact use of the unit is unknown. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since only small amounts of debris were on the ground surface.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since it is unlikely that wastes which might generate such gases were disposed.

RECOMMENDATION: Further investigation. Sample (PRL 276).

AOC No. BW-NBM/3 **North Base Miscellaneous Areas Former Missile Launch Site**

INFORMATION SUMMARY: Site File B-NBMA; Photo N-2; Document EAFB-D-85

LOCATION: The unit is located approximately 250 feet southwest of IRP Subsite 1A (part of SWMU No. BW-DDS/1). It is at the northwestern corner of where the remains of Clay Mine Road (which formerly was an access road to the North Base area) intersect with Lake Bed Road east of the Jet Propulsion Laboratory (JPL).

SIZE: The concrete pad forming the base of the unit measures approximately 15 feet by 50 feet. Running lengthwise down the center of the pad is a steel foundation approximately 6 feet long, 5 inches wide, and 4 inches high. At the western end of the pad is an excavation that is approximately 6 feet deep, 30 feet wide, and 40 feet long.

PROBABLE WASTES: The unit is believed to be the Regulus 2 missile launch stand described by long-time employees at the base. The missile reportedly contained a jet fuel-powered engine that was assisted by an 85,000-pound-thrust solid propellant booster motor during take off (the solid propellant motor was jettisoned after several seconds). Both the jet fuel and solid propellant booster were loaded after the missile was positioned on its launch rail. The missile took off toward the east at an angle, its exhaust probably impinging on the blast deflector or going into the excavation. The missile then flew over Leuhman Ridge and came back to Rogers Dry Lake, where it landed on its wheels.

Wastes might include spilled fuels, possibly solvents used in preparations, and combustion byproducts exhausted to the excavation. The exact types of fuel used are unknown, but the jet fuel may have been JP-4, and the solid propellant booster may have used ammonium perchlorate (oxidizer) and aluminum (fuel).

CONCERN: The Regulus 2 missile was reportedly tested between approximately 1956 and 1958. Based on anecdotal reports, it is estimated that there were between 10 and 15 launches during that time period. Since the missile took off at an angle (not vertically) and toward the east, the missile's exhaust may have impinged on the excavation on the west side of the concrete pad. Associated with launch preparations, there may have been releases of fuels and cleaning agents to the surrounding ground.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since based on anecdotal reports, wastes may have been discharged to the ground. The current potential is low since the unit is no longer in use.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were probably not handled.

RECOMMENDATION: Further investigation. Sample (PRL 277).

AOC No. BW-NBM/4 **North Base Miscellaneous Areas Former Leaking Transformer**

INFORMATION SUMMARY: Site File B-NBMA; Photo N-1; Document EAFB-D-85

LOCATION: The Former Leaking Transformer (also referred to as the ICM site) is located east of JPL on the southern side of Lake Bed Road (known as Kern Road further west), about 1,000 feet northwest of the location of the base water production well N-2 (formerly NB-5). It is located on the southwestern side of the intersection of Lake Bed Road and the dirt access road that runs south to the well pumping station and water storage tank.

SIZE: The concrete pad on which the Former Leaking Transformer was located measures approximately 20 feet by 20 feet. A chain-link security fence encloses an area measuring about 100 feet by 100 feet around the unit.

PROBABLE WASTES: The transformer unit formerly located on the concrete pad contained oil with PCBs measured at 52 ppm in 1985. The amount of oil released to the pad is unknown.

CONCERN: The unit is thought to have been installed in the early 1960s. The unit leaked and was removed in 1987. Based on visual evidence of vegetative die-off surrounding the pad, a security fence was installed, and signs warning of PCB contamination were posted. During the 1992 VSI, the concrete appeared to be heavily stained, although it could only be viewed from outside the fence.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high since heavy staining of the concrete pad was observed. The current potential is low since the unit was removed.

Air - The potential for release to the atmosphere is low since the remaining waste is probably not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: Further investigation. Sample (PRL 278).

NORTH BASE SLED TRACK

The North Base Sled Track was constructed by Northrop in approximately 1947 and operated until approximately 1956. It was used to conduct experiments on the effects of rapid deceleration on the human body. Although the rails have been removed, the track's concrete foundation is still visible (Photo N-11). The 2,000-foot track was located approximately 2,200 feet northeast of the intersection of the main taxiway from the North Base hangars and the runway (SF B-NBST; EAFB-D-85).

Sleds ran from west to east, using solid propellants contained in JATO (jet-assisted takeoff) bottles for fuel. Up to four 5AS1000 motors were attached to the sled. The JATO bottles were purchased already sealed from Aerojet of Sacramento. Reportedly, no fuel servicing operations were conducted at the facility. Near the eastern end of the track, a series of electromechanical hydraulic brakes slowed the sled rapidly by clamping on to flanges or keels suspended from the bottom of the sled. An emergency cable stretched across the track between two spools at the eastern end was used to stop the sleds in the event the brakes failed (SF B-NBST; EAFB-D-85).

Unlike operations at the South Base sled track, where systems and components were tested on a variety of sled configurations, tests at this track were medical in nature, and standard sleds were used. Thus, there reportedly was not much modification and repair work, nor the associated use of cleaning agents such as solvents (SF B-NBST).

A 1957 engineering drawing that shows a renumbering scheme for the North Base facilities shows two buildings (4550 and 4551) just southeast of the midpoint of the sled track. Their foundations were found during the 1992 VSI. Reportedly, the facilities were used for equipment storage and test preparation (SF B-NBST).

On the eastern side of the building foundations is what looks like the possible remains of an incinerator (Photo N-10); the use of the unit could not be determined. It is a concrete structure approximately 8 feet long, 5 feet high, and 3 feet wide, with what looks like a stove pipe protruding from the top. On the western side of the area are four concrete pedestals that may have held an aboveground tank. One 1957 drawing shows a 100 foot by 100 foot workspace at the west end of the track (SF B-NBST).

Tests at the North Base Sled Track were reportedly fairly standardized, and the operations clean. No SWMUs or AOCs were identified.

NORTH GATE RAILROAD AREA

The area of the base near the northern gate on Rosamond Boulevard has been the site of railroad activity. The Atchison, Topeka, and Santa Fe Railroad runs along the northern boundary of the base. The railroad was rerouted to this area in approximately 1953 when the tracks which formerly ran across Rogers Dry Lake to the south were removed to allow base construction. On the northern side of the tracks west of Rosamond Boulevard are the remains of a cluster of buildings formerly used by the railroad. The buildings were reportedly temporary living quarters for railroad workers, similar to motel units. The buildings were torn down sometime after 1973. Currently the area is used as a siding for extra engines to move trains through Tehachapi Pass, and there is a trailer for the crews (SF B-NGRA).

At the point where the railroad crosses Rosamond Boulevard, a spur (no longer used) runs south into the base along the western side of Rosamond Boulevard. Approximately 0.4 mile to the south along this spur, a train turnaround extends to the west. Approximately 0.8 mile further south, the spur crosses Rosamond Boulevard and runs along the road's eastern side. The spur eventually splits near the intersection of Lancaster and Rosamond boulevards. One track continues along the east side of the road and into the Main Base, and one crosses back to the west side and runs to the Main Base Bulk Fuel Storage Facility (see the ESI/RFA for the MBFL OU) and Exotic Fuels Storage Area (Buildings 4946 to 4965) (SF B-NGRA; Computer Sciences Corporation, 1991).

In the area of the train turnaround, but on the eastern side of the railroad tracks, there are several areas with the potential for release of hazardous waste. A Tar Pit (SWMU No. BW-NG/1) is located south of the turnaround, slightly south of where a set of power lines crosses the tracks. Surrounding the Tar Pit are piles of stones (possibly railroad ballast) and other rubble. Directly east of the turnaround is a Debris Site (AOC No. BW-NG/1) containing several drums and other items. The Debris Site is adjacent to a large depression that appears to be man-made (SF B-NGRA).

Approximately 1.5 miles northwest of an electric substation on the western side of Rosamond Boulevard are the concrete foundations of a former facility whose purpose is unknown (Photos BW-35 and BW-36). The facility is in a remote area, sheltered from view by Rosamond Boulevard traffic by a low, possibly man-made, hill. The southernmost foundation consists of a concrete pad measuring approximately 40 feet by 40 feet. On the concrete pad are three 6-foot-high walls, each about 30 feet long, forming a U shape. The open side faces west. Within the three walls, in the concrete pad, is a concrete pit measuring approximately 6 feet by 6 feet by 6 feet. Along the edges of the pit are a number of what appear to be hold-down bolts. This foundation is connected to a facility approximately 100 feet to the north by a concrete cable trough (SF B-NGRA).

The northern facility occupies an area measuring approximately 50 feet by 50 feet. It consists of concrete pads and a number of in-ground concrete chambers, some interconnected by

underground tunnels. On the outskirts of the facility are four heavy concrete abutments with hold-down bolts. There are the remains of a bathroom and septic tank. No staining was evident anywhere in the facility, nor were there signs of USTs. A small amount of rubble was seen surrounding the facility, including wood, a few cans, and some possible asbestos cement. According to a long-time employee, the facility may have been constructed as a missile test site, but was apparently never used (SF B-NGRA).

The SWMU and AOC in the North Gate Railroad Area are shown in Figure 3-31 and described on the following pages.

SWMU No. BW-NG/1 North Gate Railroad Area Tar Pit

INFORMATION SUMMARY: Site File B-NGRA; Photo BW-33

LOCATION: The unit is located south of the northern gate, on the western side of Rosamond Boulevard. The unit can be accessed by a dirt road that heads west from Rosamond Boulevard, approximately 0.4 mile south of the northern gate. The dirt road is adjacent to a small chlorination station for the underground water line that runs along the western side of Rosamond Boulevard. The Tar Pit is about 200 feet west of Rosamond Boulevard, and 100 feet south of the dirt road. As an identifying landmark, the largest dirt pile in the area is about 75 feet east of the unit.

SIZE: The Tar Pit is approximately 20 feet in diameter. The depth of the viscous material in the unit could not be determined, although a stick poked into it went in about 2 inches.

MATERIAL: The unit consists of a tar-like substance on the bare ground.

CONNECTIONS: None.

PURPOSE: The unit appears to have been used for the disposal of waste material.

STARTUP: Unknown. **DEACTIVATED:** Unknown.

WASTES MANAGED: The unit manages a viscous, black material that has the appearance of tar or asphalt. When heated by the sun it becomes soft.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Based on its appearance, the unit may release to the underlying soils.

VSI COMMENTS: Three old, bleached tortoise shells are stuck in the unit. The unit is surrounded by a large area (estimated to be 2 acres to 3 acres) of debris, including piles of stones (possibly railroad ballast), cans, lumber, and steel cable.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high since waste is disposed on bare ground.

Air - The potential for release to the atmosphere is moderate since the waste is exposed to the atmosphere and may contain some volatile compounds.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since waste which might generate such gases is not handled by the unit.

RECOMMENDATION: Further investigation. Sample (PRL 279).

AOC No. BW-NG/1 North Gate Railroad Area Debris Site

INFORMATION SUMMARY: Site File B-NGRA; Photo BW-34 and BW-50

LOCATION: The Debris Site is located on the eastern side of the railroad tracks at the train turnaround, south of where the base railroad spur connects to the Atchison, Topeka, and Santa Fe Railroad. The unit is approximately 30 feet east of the track. About 200 feet east of the unit is a large depression in the earth which appears to be man-made.

SIZE: The area over which debris is scattered measures approximately 50 feet by 100 feet.

PROBABLE WASTES: Unknown.

CONCERN: A relatively small amount of debris is scattered around the unit. It includes three 55-gallon drums (one contains trash, two are empty). There are the remains of some heavy cylindrical metal items, about 1 foot in diameter, that are lined with what might be asbestos-containing material. No staining of the ground is evident. Vegetation in the southern part of the adjacent depression appears stressed and/or dead.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since use of the unit is unknown. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since there is no volatile waste.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the debris appears to be confined to the ground surface.

RECOMMENDATION: No further investigation. No evidence of release to soils and groundwater.

NORTHWEST AREA

The northwestern portion of the base is bounded approximately by Rosamond Boulevard on the south, and by the base boundaries on the west and north. It extends east to the vicinity of the main gate on Rosamond Boulevard. A prominent rise known as Red Hill is located near the western border of the base, on the northern side of Rosamond Boulevard. Further to the north and east are the Rosamond Hills and Bissell Hills. The extreme northwestern corner of the base is the flattest portion of the area, sloping gently to the north and east.

There are numerous access routes onto base property in the northwest area. An abandoned railroad bed (formerly used by the Atchison, Topeka, and Santa Fe Railroad) runs along a portion of the northern boundary (see North Gate Railroad Area). Dirt roads run along the northern and western base boundaries (Lone Butte Road along the western boundary and an unnamed road along the northern boundary). Other small dirt roads extend from the boundary roads into the interior of the area. Although the northwestern area of the base is uninhabited, the city of Rosamond is near the western base boundary, and other small settlements are located along the northern boundary. The proximity of the communities to the dirt roads allows uncontrolled access to base property (except for daily boundary patrols by Edwards AFB personnel). As a result, the areas near base boundaries experience unauthorized waste disposal from off-base sources. Based on anecdotal reports and observations made during the June 1992 VSI, this disposal is mainly domestic in nature. However, near Red Hill two areas were observed which may have been used for hazardous waste disposal. These are discussed in more detail below.

Several other areas of interest in the northwest area are also described below. One of these is an abandoned, unimproved runway between the Rosamond Hills and the northern base boundary. Another is an area off Lone Butte Road used in the past by off-base sources for temporary storage.

Red Hill

Two SWMUs were identified along one of the dirt roads west of Red Hill during the June 1992 VSI. The Former Rosamond Burning Dump (SWMU No. BW-NW/1) is located at T9N, R12W, in Section 15 (adjacent to the western boundary of the base). The unit can be accessed by a paved road that heads north from Rosamond Boulevard approximately 1.2 miles east of its intersection with Sierra Highway. The paved road turns into a dirt road well south of the unit. The Former Rosamond Burning Dump is located approximately 2,000 feet north of Rosamond Boulevard, along the eastern side of the private, unimproved dirt access road. It is owned by Kern County and was operational from 1946 until closure in 1973. The Former Rosamond Burning Dump is approximately 675 feet square. Aerial photographs identify four trenches to be present within the dump area. Three trenches appear to be backfilled and one trench appears to be approximately half filled with debris. The unit is in an area where trash has been disposed

on both sides of the dirt access road. Among the debris are numerous rusted gasoline, oil, and thinner cans, along with paint buckets (SF B-WBA).

The second unit in the northwestern area is a Drum Disposal Site (SWMU No. BW-NW/2). The unit is located approximately 300 feet north of the northern end of the Former Rosamond Burning Dump and approximately 50 feet east of the private, unimproved dirt access road. Two 55-gallon drums containing a tar-like substance were observed during the 1992 VSI. One of the drums, which is turned on its side, contains five, 1-gallon plastic bottles of the tar-like substance. This drum has leaked onto the ground, causing a black stain which runs downhill for approximately 20 feet (SF B-WBA).

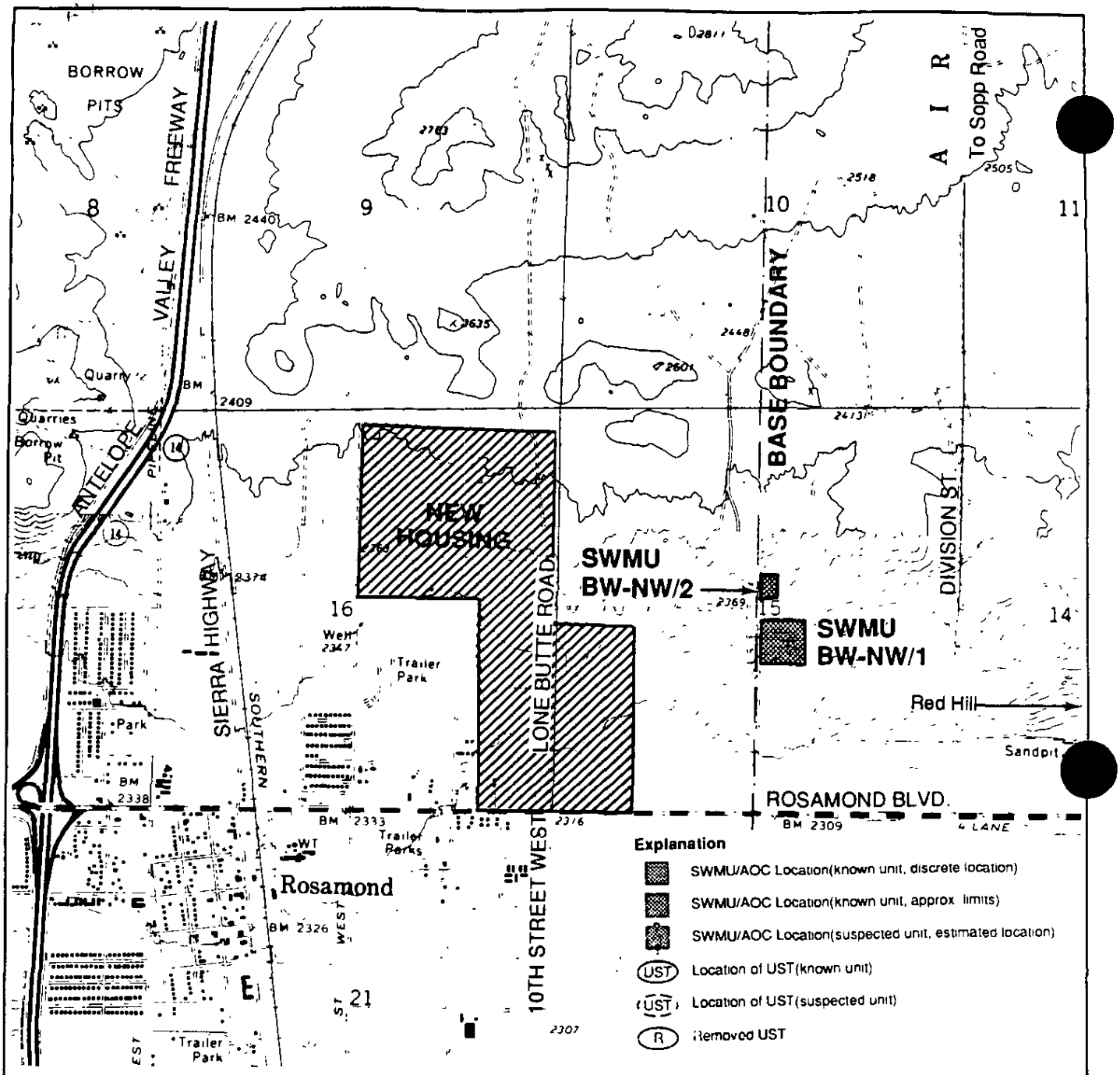
Unimproved Runway

The abandoned, unimproved runway at the northwestern corner of the base property may be accessed by going east for 1.7 miles on Sopp Road from its intersection with Division Street, and heading north on the first dirt road. The runway is barely visible due to the growth of desert vegetation. The runway is 1.1 miles long, and reportedly was used mainly in the 1950s for practice landings and other related uses. Use of the runway reportedly ceased in the 1960s. During the 1992 VSI, no buildings, foundations, or other structures were seen at this location. Only a few old tires were observed. No SWMUs or AOCs were identified (SF B-WBA).

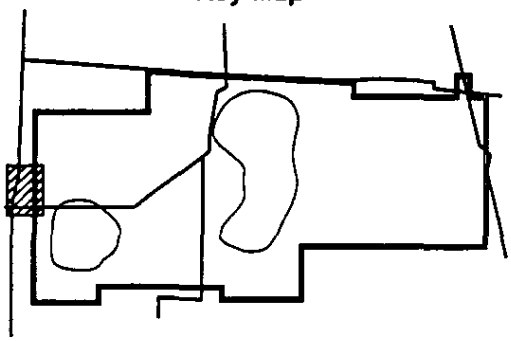
Lone Butte Road

Near the northwestern corner of the base on Lone Butte Road, at T10N, R12W, on the border of Sections 15 and 22, is an old homestead. Reportedly five or six 30,000-gallon tanks were recently stored without authorization on Edwards AFB property by a local contractor, who had removed them from an off-base site. The tanks were not located at the site during the 1992 VSI, and had apparently been removed. No evidence of tanks was found (SF B-WBA).

The SWMUs in the Northwest Area are shown in Figure 3-32 and described on the following pages.



Key Map



North

0 1/2 1 Mile

Scale

Source: Base map from U.S.G.S. Rosamond, CA and Soledad, CA Quadrangles, 1973.

The Earth Technology Corporation

Project No 91-1006

Base-Wide Miscellaneous ESI/RFA

Northwest Area

9-93

Figure 3-32

SWMU No. BW-NW/1 Former Rosamond Burning Dump

INFORMATION SUMMARY: Site File B-WBA

LOCATION: The Former Rosamond Burning Dump is located at T9N, R12W, in Section 15 adjacent to the western boundary of the base. The unit can be accessed by a paved road that heads north from Rosamond Boulevard approximately 1.2 miles east of the intersection of Rosamond Boulevard and Sierra Highway. The paved road turns into a dirt road well south of the unit. The Former Rosamond Burning Dump is located approximately 2,000 feet north of Rosamond Boulevard along the eastern side of a private, unimproved dirt access road. It is owned by Kern County, and was operational from 1946 until closure in 1973. Aerial photographs (April 1992) identify four trenches to be present within the dump area. Three of the trenches are backfilled and one of the trenches (southernmost trench) is partially filled with debris.

SIZE: The unit occupies approximately 10 acres, and is approximately 675 feet square. There were four burn trenches, three of which were approximately 500 feet to 600 feet long. The southernmost trench was only 350 feet long. The northernmost (and oldest) trench was approximately 135 feet wide; the other three trenches were approximately 40 feet wide. The former burning trenches were up to 15 feet deep.

MATERIAL: The unit is located on native soils.

CONNECTIONS: None.

PURPOSE: Kern County purchased the property in November 1946 for use as a modified trench-and-burn landfill. The landfill was closed in October 1973. Since closure, the site property and adjacent area have experienced unauthorized dumping from off-base sources.

STARTUP: 1946. **DEACTIVATED:** 1973; fenced in 1992.

WASTES MANAGED: Site operations used the modified trench-and-burn method which consisted of refuse disposal into trenches and periodic, unscheduled burning of the refuse. The estimated volume of refuse at the site is 50,000 tons, which is approximately 20,000 cubic yards. The majority of the waste was burned. Much of the remaining waste appears to consist of glass, metal, wood, and ash. The types of wastes managed at the unit included domestic, commercial, and possibly industrial wastes (EABF-D-98).

RELEASE CONTROLS: None. The disposal site is unlined and has no leachate control or leachate collection system.

HISTORY OR EVIDENCE OF RELEASE: Three groundwater monitoring wells (RBD-01 to RBD-03) and four refuse boreholes (RRB-1 to RRB-4, one per trench) were installed and drilled at the unit in June 1991 as part of a Solid Waste Assessment Test (SWAT) investigation by Ninyo and Moore. Groundwater samples were collected from the monitoring wells and analyzed for purgeable halocarbon and aromatic constituents and for California Title 22 Metals. Concentrations of all purgeable halocarbon and aromatic analytes were less than their method detection limit. Manganese concentrations in the groundwater samples exceeded the California MCL for manganese. All other detectable California Title 22 metals were present in concentrations less than federal/California MCLs.

Nine soil samples were collected from the monitoring well boreholes and 21 soil samples were collected from the refuse boreholes. Soil samples were collected at depths greater than static water level (approximately 38 feet below ground surface) because, with the exception of one borehole, the boreholes were dry at sampling depths during drilling. Four discrete burn residue/soil samples were collected (one from each borehole) at depths between 5 feet and 7 feet below ground surface. Samples were analyzed for purgeable halocarbon and aromatic constituents and for California Title 22 metals, organochlorine pesticides, and PCBs.

The only halogenated volatile organic constituent detected in the soil samples was 1,1,1-trichloroethane, which was detected in two soil samples from Well RBD-02, at concentrations less than the California drinking water MCL. Toluene was the only aromatic volatile organic constituent detected, in 21 of 30 soil samples and all four burn/residue samples.

Arochlor-1254 was detected in one burn/residue soil sample, collected from Borehole RRB-3 at 7 feet. Concentrations of other organochlorine pesticides and PCB constituents were less than method detection limits for all other soil samples.

Thirty soil samples and four burn residue/soil samples were analyzed for California Title 22 metals. Arsenic, cadmium, copper, and lead were detected at concentrations that exceeded 10 times their respective STLCs in three burn residue/soil samples. Further testing of these samples using the waste extraction test (WET) method indicated lead and copper concentrations exceeding the STLC in two samples. Two composite burn residue/soil samples were analyzed for Title 22 organic chemicals. Organic lead in one of the composite samples was the only analyte detected. Two discrete burn residue/soil samples and two composite burn residue/soil samples were analyzed for Toxic Characteristic Leaching Procedure (TCLP) metals. All TCLP metal concentrations were less than their respective regulatory levels.

Two laboratory composited burn residue/soil samples were analyzed for dioxins and furans. Dioxin and furan concentrations were less than their respective method detection limits.

Soil permeabilities were on the order of 10^{-4} cm/sec to 10^{-7} cm/sec and can be classified as low to relatively impermeable. Soil moistures were relatively low, ranging from 2.7 percent to 11.6 percent, and were generally below 7.1 percent.

Soil pH of the four burn residue/soil samples ranged from 7.6 to 10.8. Soil pH from the 30 soil samples ranged from 9.2 to 11.0. Generally soil pH increased with increased depth, with the lowest pH values associated with the shallowest samples, particularly the burn residue/soil samples. Metals are relatively immobile at these pH values.

VSI COMMENTS: The unit was visually inspected in November 1992. The site property is currently enclosed by a 6-foot-high chain link fence with a padlocked gate. All of the monitoring wells were observed. The dump appears to be located just west of the base boundary.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since, although the site is unlined,waste materials were periodically burned and contaminants have been detected at the site in relatively low concentrations. The current release potential is low, since the site is no longer used.

Air - The potential for release to the atmosphere is low since burning no longer occurs at the site.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes that could produce gas were burned.

RECOMMENDATION: No further investigation. The burn dump is outside the base boundary. The results of the Water SWAT investigation indicate that elevated metals detected in the burn/residue composite samples have not migrated to deeper soils or to groundwater.

SWMU No. BW-NW/2 Northwest Area Drum Disposal Site

INFORMATION SUMMARY: Site File B-WBA; Photos BW-84 and BW-85

LOCATION: The Drum Disposal Site is located at T9N, R12W, in Section 15, near the western boundary of the base. The unit can be accessed by a paved road that heads north from Rosamond Boulevard approximately 1.2 miles east of the intersection of Rosamond Boulevard and Sierra Highway. The paved road turns into a dirt road well south of the Drum Disposal site. The unit is located approximately 300 feet north of the Former Rosamond Burning Dump (SWMU No. BW-NW/1) and approximately 50 feet east of the dirt access road.

SIZE: The Drum Disposal Site is approximately 20 feet long and 3 feet wide.

MATERIAL: The unit consists of metal drums and plastic containers sitting on native soils.

CONNECTIONS: None.

PURPOSE: The Drum Disposal Site was apparently used by off-base sources without authorization, for the disposal of two drums and several smaller containers.

STARTUP: Unknown. **DEACTIVATED:** Unknown.

WASTES MANAGED: Two 55-gallon drums containing a tar-like substance were observed during the 1992 VSI. One of the drums, which is turned on its side, contained five, 1-gallon plastic bottles of the tar-like substance.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: One of the drums has leaked onto the ground, causing a black stain which runs downhill for approximately 20 feet.

VSI COMMENTS: The unit is adjacent to, but not part of, the Former Rosamond Burning Dump (SWMU No. BW-NW/1).

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high since wastes were discharged directly to the ground.

Air - The potential for release to the atmosphere is low since the waste on the ground is probably not very volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the waste handled probably does not generate such gases.

RECOMMENDATION: Further investigation. Sample (PRL 280).

PANCHO BARNES' RANCH

The area of the base associated with Pancho Barnes' ranch is located approximately 2 miles southeast of the main gate on Rosamond Boulevard. It is located at T9N, R10W, mainly in Section 20. The ranch is abandoned except for periodic recreational use, and only foundations of the former buildings remain (SF B-PBR).

In the 1930s, the area was a working ranch. Later, in the 1940s and 1950s it was known as the Happy Bottom Riding Club, and was used for small aircraft flight activities (not associated with the Air Force) and recreational purposes. For recreation, it had riding stables, a bar, swimming pool, restaurant, and 20-room motel. Reportedly, there were no USTs associated with these facilities; all heating fuel was stored in aboveground tanks (SF B-PBR; Computer Sciences Corporation, 1991). Some metal rubble was observed in the area (Photo BW-49).

For flight activities, the ranch had a licensed landing strip with several hangars. The 0.8-mile long dirt landing strip, now abandoned and unusable, is located on the western side of the ranch. The concrete foundations of two hangars remain at the northeast end of the landing strip. A third hangar, with a dirt floor, was reportedly located just to the south of the other two hangars. Fuel for small aircraft was stored in aboveground tanks. Any waste fuel or oil from maintenance and repair of aircraft was reportedly stored in containers; its ultimate disposal is unknown (SF B-PBR).

Northeast of Pancho Barnes' ranch is another abandoned dirt landing strip at a facility known as Graham Ranch. The unusable landing strip is located at T9N, R10W, in Section 16 and is 1 mile in length. The facility was reportedly used in the 1960s and 1970s for programs to determine the effects of landing Air Force aircraft on unimproved runways. Operations consisted mainly of touch-and-go landings by aircraft. There were no buildings or other facilities associated with Graham Ranch (SF B-PBR).

Reportedly, in the past a contractor may have operated a crop dusting operation out of one of the hangars. Details of this operation are unknown, but at the time of this report the Air Force was conducting an investigation to obtain more information. The dates of operation are unknown, as are the type of pesticides used and the location of any storage or preparation facilities (SF-PBR).

There were no SWMUs or AOCs identified at Pancho Barnes' ranch or at Graham Ranch.

PRECISION IMPACT RANGE AREA - BOMBING TARGETS

The Precision Impact Range Area (PIRA) covers a large portion of Edwards Air Force Base east of Rogers Dry Lake. It has three subdivisions: the East Range, West Range, and PB6 Range areas. PIRA is used to test aircraft weapon system performance during bombing missions (SF B-PIRA).

The range was originally established in the late 1930s as the Muroc Bombing Range, a 100-square-mile area extending from Mercury Boulevard east to Highway 395. It was first used to test high level bombing by B-17 aircraft. A full-scale mock-up of a Japanese ship was used for target practice during World War II. The ship was located on the southwestern portion of Rogers Dry Lake, east of the Former Skeet Shooting Range (SWMU No. BW-LB/3, see the Southern Lancaster Boulevard section of this report). Aircraft using the target reportedly flew east to west, practicing skip-bombing operations in which inert bombs were "skipped" along the lake bed to strike the ship (EAFB-D-85).

Under the jurisdiction of Aberdeen Proving Grounds, a U.S. Army station in Maryland, the Muroc Bombing Range was used from the early 1940s to the mid-1950s to develop firing tables for air-launched and land-based weapons and bombs (today firing tables are computerized). Firing tables provide information on projectile trajectory, given such measurements as wind speed and direction, firing angle, etc. According to the former Aberdeen Post Historian, the tests conducted at Edwards AFB under Aberdeen's tenure did not involve firing live rounds, since these tests were not concerned with determining the explosive power of weapons. However, there are anecdotal reports that live munitions were occasionally used on the range prior to 1960 (SF B-PIRA; EAFB-D-99; EAFB-D-86).

In the late 1950s, operation and management of the range were transferred to Eglin AFB in Florida, and in 1960 control of the range was assigned to the Air Force Flight Test Center (AFFTC) at Edwards AFB. Sometime in the early 1960s, approximately 25 square miles of former range land was reallocated to the Rocket Propulsion Laboratory (Phillips Laboratory). This reallocation resulted in some former target areas being located outside the current PIRA boundaries (SF B-PIRA; EAFB-D-86).

According to the former Chief of Space Positioning/Director of Range Operations from 1957 to 1980, a wide variety and large quantity of material has impacted on PIRA over the years, ranging from 10,000-pound block busters to 1-inch bomblets and from conventional munitions to nuclear shapes. One shape consisted of a 5-ton lead weight dropped from a high-flying B-36D aircraft. Reportedly, live munitions were tested on the range during the 1960s. All munitions dropped on PIRA were inspected by Explosive Ordnance Disposal (EOD) personnel, after which the remains were retrieved by Civil Engineering (CE) personnel and buried on PIRA. Decontamination of the range was generally limited to the surface, with very little effort made to neutralize unexploded live, high energy bombs that penetrated below the surface. According to EOD personnel, live munitions are still occasionally found at various locations both

within and outside of PIRA, sometimes even off base, e.g., at the former California City Range. Live munitions have on occasion been found on Rogers Dry Lake (SF B-PIRA; EAFB-D-86).

Until recently, when this function was taken over by CSC, CE was responsible for the removal of all inert debris from the range, as well as for maintaining records on the location of the Burial Pits (SWMU No. BW-PIRA/1) used to dispose of the scrap ordnance (SF B-PIRA; EAFB-D-86).

Virtually all bombing missions at PIRA have occurred in an east to west direction. Many of the tests conducted by Aberdeen, as well as later missions used to qualify aircraft, potentially dropped ordnance anywhere over the range area. These missions were flown to ensure that the weapons system being tested could be separated from the aircraft per design. For example, when the F-15 first came out in the early 1970s, a qualifying test was run to see if it could fire its guns at 50 feet (SF B-PIRA; EAFB-D-86).

Beginning in the 1940s, target practice has been conducted at one of 13 current bombing targets (PB1 through PB13), as summarized in Table 3-6, or at various former targets, as summarized in Table 3-7. However, ordnance probably lies outside the target areas also, as a result of bomb drops that missed the targets, and unknown and unrecorded operations. Targets PB10 and PB12 are the most frequently used targets today; other targets are used on occasion for special tests. Four targets: PB1 (AOC No. BW-PIRA/1), PB8 (AOC No. BW-PIRA/2), PB10 (AOC No. BW-PIRA/3), and PB6 (AOC No. BW-PIRA/4) have been identified as specific areas of concern based on information gathered in this ESI/RFA; less information is available regarding the other nine targets (SF B-PIRA; EAFB-D-86).

Maps from 1944 and 1953 show an area south of the center of PB1 as a Chemical PB, indicating the possible use of this target for testing chemical ordnance. PB6 reportedly also may have been used in the past for testing chemical ordnance. PB8 was reportedly used briefly for live explosive bombing in the late 1960s. PB10 is currently in active use; it is near PB10 that Explosive Ordnance Disposal (EOD) personnel blow the ends off larger inert bombs before they are disposed in the Munitions Residue Burial Site (SWMU No. BW-MRBS/1) at Downfall (SF B-PIRA).

Over time, the numbering system for the practice bombing targets has changed, as can be seen when comparing maps from the 1940s and 1950s to a current range map. In addition, a number of targets are shown on the early maps that are no longer identified on current maps of the range. These former targets are listed in Table 3-7. Two of the former targets [Former PB1 (Photo BW-45) and Former PB7 (Photo BW-56)] were visited during the VSI, and the areas were observed to be littered with fragments from inert bombs. The 1953 map also shows three HiX (high explosive) targets. One is located south of PB8 (AOC No. BW-PIRA/2); the others are the HiX-4 Target (AOC No. BW-PIRA/5) and HiX-12 Target (AOC No. BW-PIRA/6). The exact use of the HiX targets could not be determined (SF B-PIRA).

TABLE 3-6. PRACTICE BOMBING TARGETS

Target	Location	Start Date	Status	Comments
PB1	West Range, T9N, R8W, *Sections 7 and 8*	1940s	Active; *instrumented*	May have been used for chemical bombing in past (AOC No. BW-PIRA/1).
PB2	West Range, T9N, R8W, Section 9	After 1953	Inactive; not instrumented	
PB3	West Range, T9N, R8W, Section 11	1940s	Inactive; used as staging area	Same location as Former PB2.
PB4	West Range, T9N, R8W, Section 19	After 1953	Active as a photo resolution target now	
PB5	East Range, T9N, R7W, Section 27	Before 1953	Inactive	
PB6	PB6 Range, T10N, R7W, Section 24	1940s	Inactive	Not in use for many years; may have been used for *chemical bombing* (AOC No. BW-PIRA/4).
PB7	West Range, T9N, R9W, Section 24	After 1953	Inactive	
PB8	West Range, T9N, R8W, Section 22	Before 1953	Active	Live bombing performed in late 1960s. Surrounding drop zone includes Sections 15, 16, 21, 22, 27, 28 (AOC No. BW-PIRA/2).
PB9	West Range, T9N, R8W, Section 29	1940s	Inactive	Same location as Former PB4.
PB10	West Range, T9N, R8W, Sections 19, 20	After 1953	Active	Most frequently used target today (AOC No. BW-PIRA/3).
PB11	East Range, T9N, R7W, Sections 10, 15	After 1953	Active	*Infrequent use.*
PB12	East Range, T9N, R7W, Sections 12, 13	After 1953	Active	Infrequent use.
PB13	West Range, T9N, R8W, Sections 20, 21	After 1969	Inactive	Sometimes used for special tests.

TABLE 3-7. FORMER PRACTICE BOMBING TARGETS

Target	Location	Start Date	Status	Comments
Former PB1	Outside PIRA, west of Leuhman Ridge, T10N, R8W, Section 28	1940s	Inactive	Photo BW-45
Former PB2	West Range, T9N, R8W, Section 11	1940s	Active	Now known as PB3.
Former PB3	Outside PIRA, east of Leuhman Ridge, T10N, R7W, Section 20	Before 1953	Inactive	
Former PB4	West Range, T9N, R8W, Section 29	1940s	Inactive	Now known as PB9.
Former PB7	Outside PIRA, northeast of Rogers Dry Lake, T10N, R9W, Section 12	1940s	Inactive	Used for Jettison only (Photo BW-56).
Former PB9	Outside PIRA, southwest of Boron, T10N, R8W, Section 12	Before 1953	Inactive	
Former PB10	West Range, T9N, R9W, Section 35	Before 1953	Inactive	
Former PB11	West Range, T9N, R9W, Sections 11, 12	1940s	Inactive	
Former Bombing Target No.1	Outside PIRA, East of Rich Road, T10N, R8W, Section 15	1940s	Inactive	
Former Bombing Target No. 2	West Range, T9N, R9W, Section 26	1940s	Inactive	Shown as Development Range in 1953 map.
Former Chemical PB	West Range, T9N, R8W, Section 17	1940s	Inactive	Approximately 3,500 feet southwest of PB1 (AOC No. BW-PIRA/1)
Former HiX Target	West Range, T9N, R8W, Section 22	Before 1953	Inactive	Approximately 3,000 feet south of PB8 (AOC No. BW-PIRA/2)
Former HiX-4 Target	Outside PIRA, West of Phillips Laboratory gate, T10N, R8W, Section 34	Before 1953	Inactive	AOC No. BW-PIRA/5
Former HiX-12	East Range, near P.L. Test Area 1-36D, T10N, R7W, Section 28	Before 1953	Inactive	AOC No. BW-PIRA/6

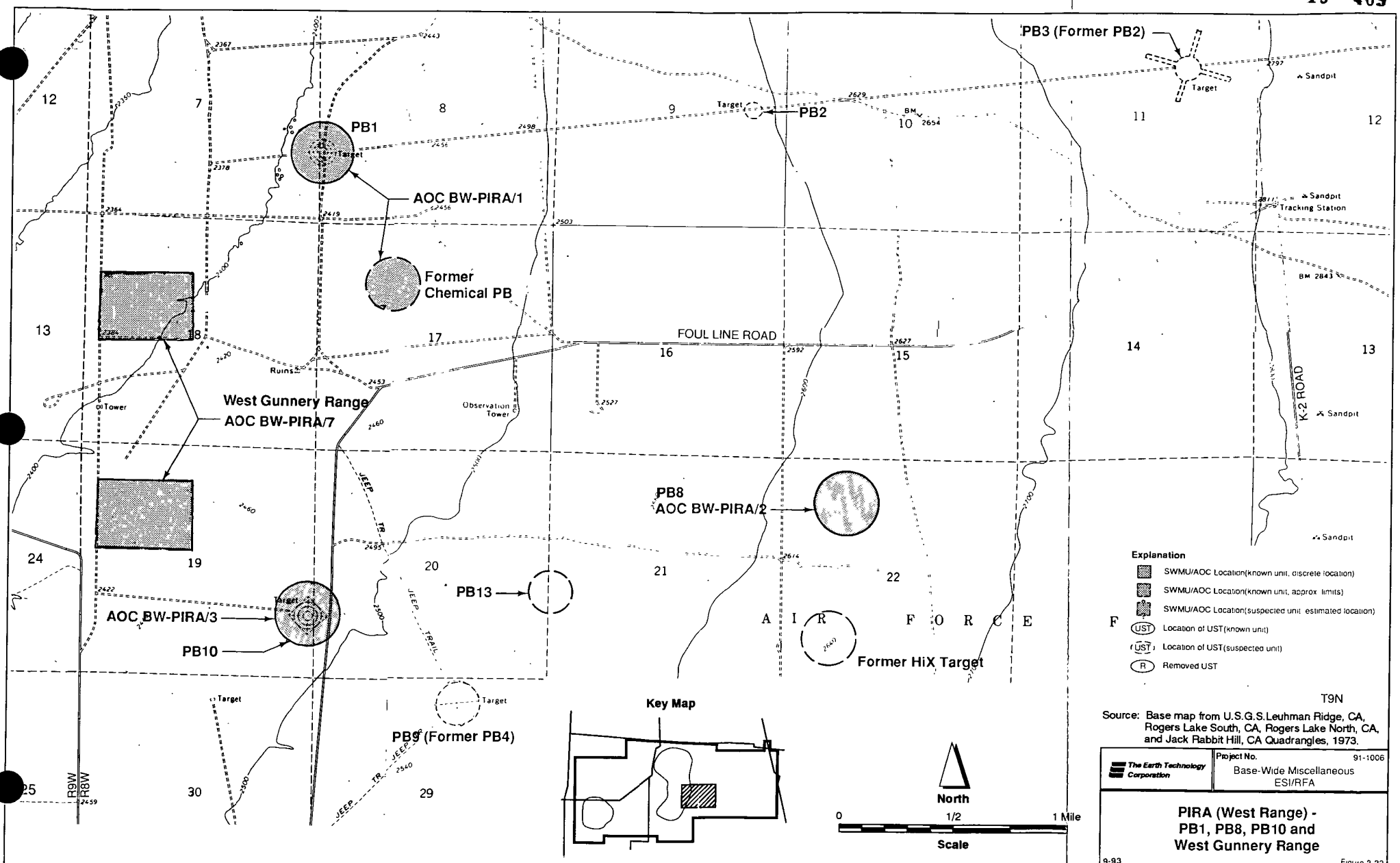
19 409

Besides the practice bombing targets, the DAGRAG (Dual Air to Ground Range) is located in the West Range, or West Gunnery Range (AOC No. BW-PIRA/7), where aircraft fire machine gun rounds at cloth targets. In the East Range, the East Gunnery Range (AOC No. BW-PIRA/8) was reportedly used in the past for similar exercises, and may be reactivated in the near future. A Small Dry Lake Disposal Site (AOC No. BW-PIRA/9) is also located on the East Range; it is unrelated to range operations. Hazardous wastes were reportedly disposed on the ground at the unit in the early 1970s (SF B-PIRA; EAFB-D-80).

Since the mid-1980s, Computer Sciences Corporation (CSC) has managed the range. Today, only inert ordnance (i.e., concrete-filled bombs with spotting charge) is fired. CSC personnel have the responsibility of "sweeping" the surface for inert debris (after a target area has been cleared by EOD), which is disposed in the Munitions Residue Burial Site (SWMU No. BW-MRBS/1) south of Downfall (SF B-PIRA).

The SWMUs and AOCs associated with PIRA are shown in Figures 3-29 and 3-33 to 3-36 and described on the following pages.

Figure 3-33 PIRA (West Range) - PB1, PB8, PB10 and West Gunnery Range



Source: Base map from U.S.G.S.Leuhman Ridge, CA, Rogers Lake South, CA, Rogers Lake North, CA, and Jack Rabbit Hill, CA Quadrangles, 1973.

The Earth Technology Corporation

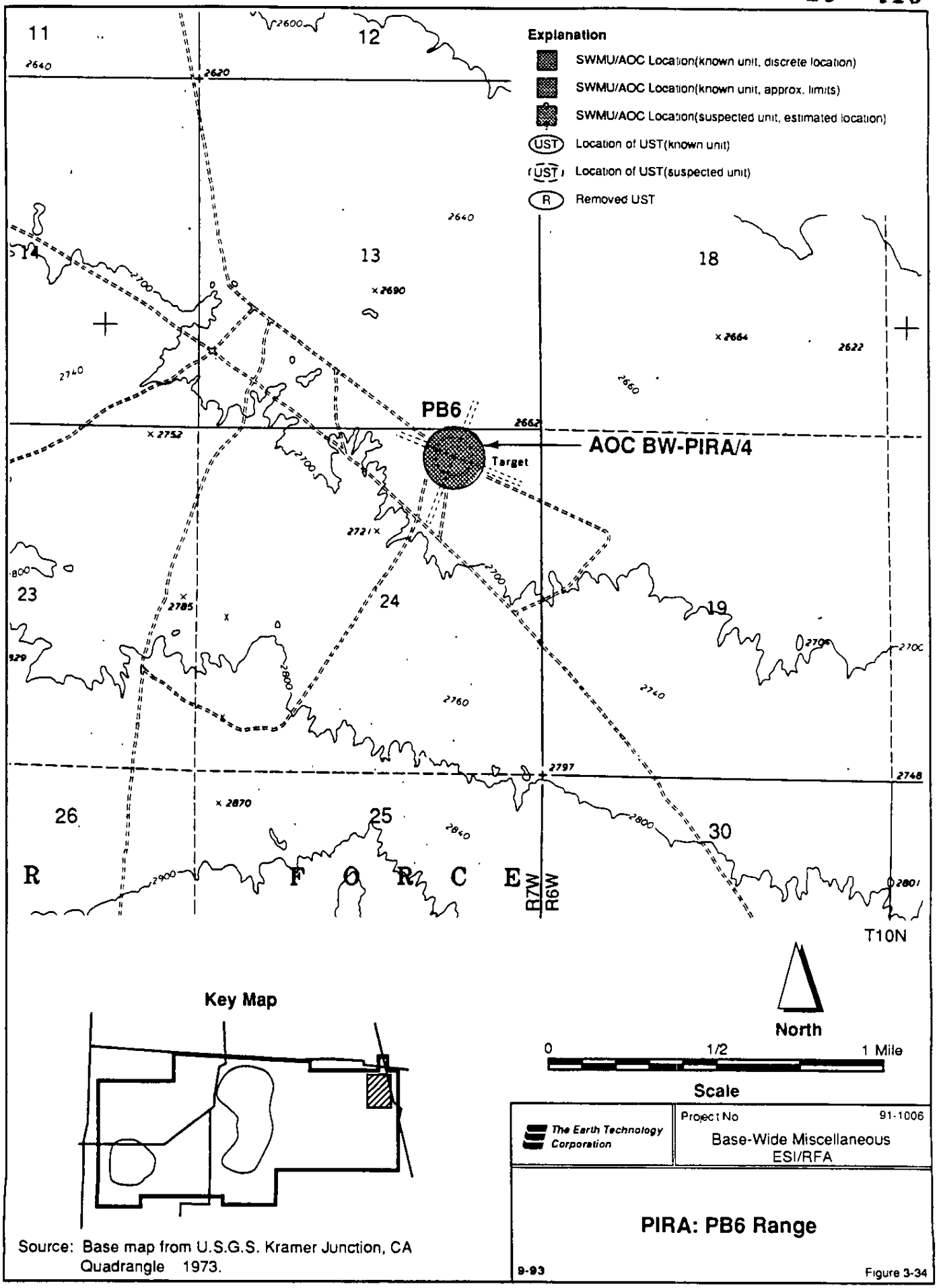
Project No. 91-1006

Base-Wide Miscellaneous
ESI/RFA

PIRA (West Range) - PB1, PB8, PB10 and West Gunnery Range

9-93

Figure 3-33



Source: Base map from U.S.G.S. Kramer Junction, CA Quadrangle 1973.

The Earth Technology Corporation

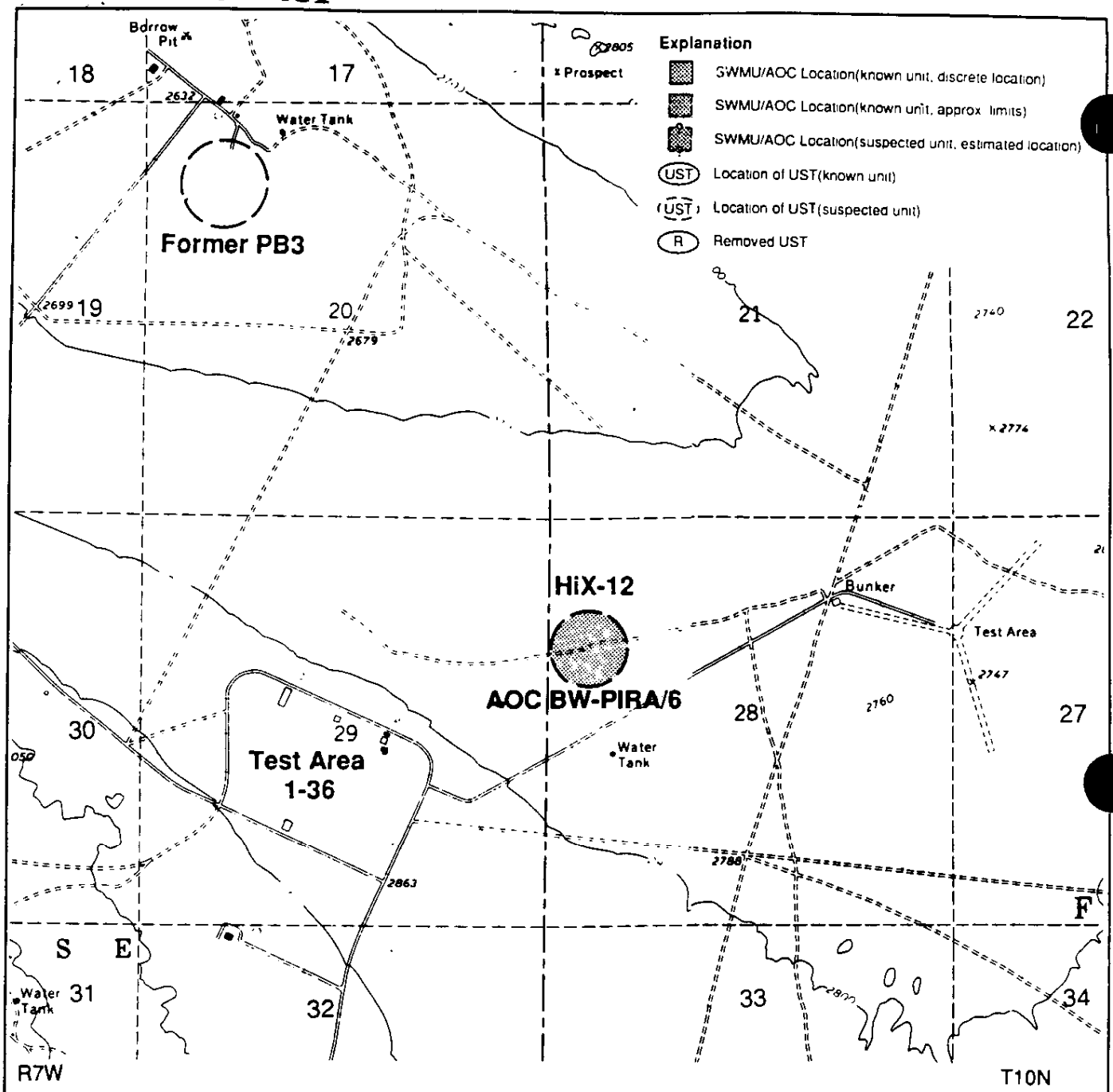
Project No 91-1006

Base-Wide Miscellaneous ESI/RFA

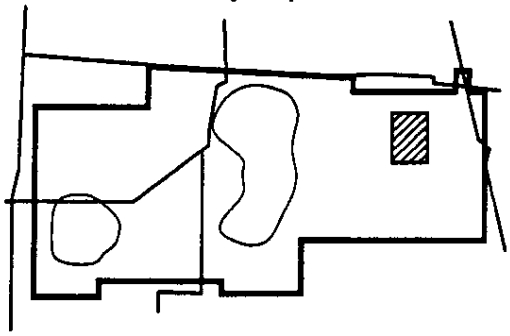
PIRA: PB6 Range

9-93

Figure 3-34



Key Map



North

0 1/2 1 Mile

Scale

Source: Base map from U.S.G.S. Kramer Junction, CA and Leuhman Ridge, CA Quadrangles, 1973.

The Earth Technology Corporation

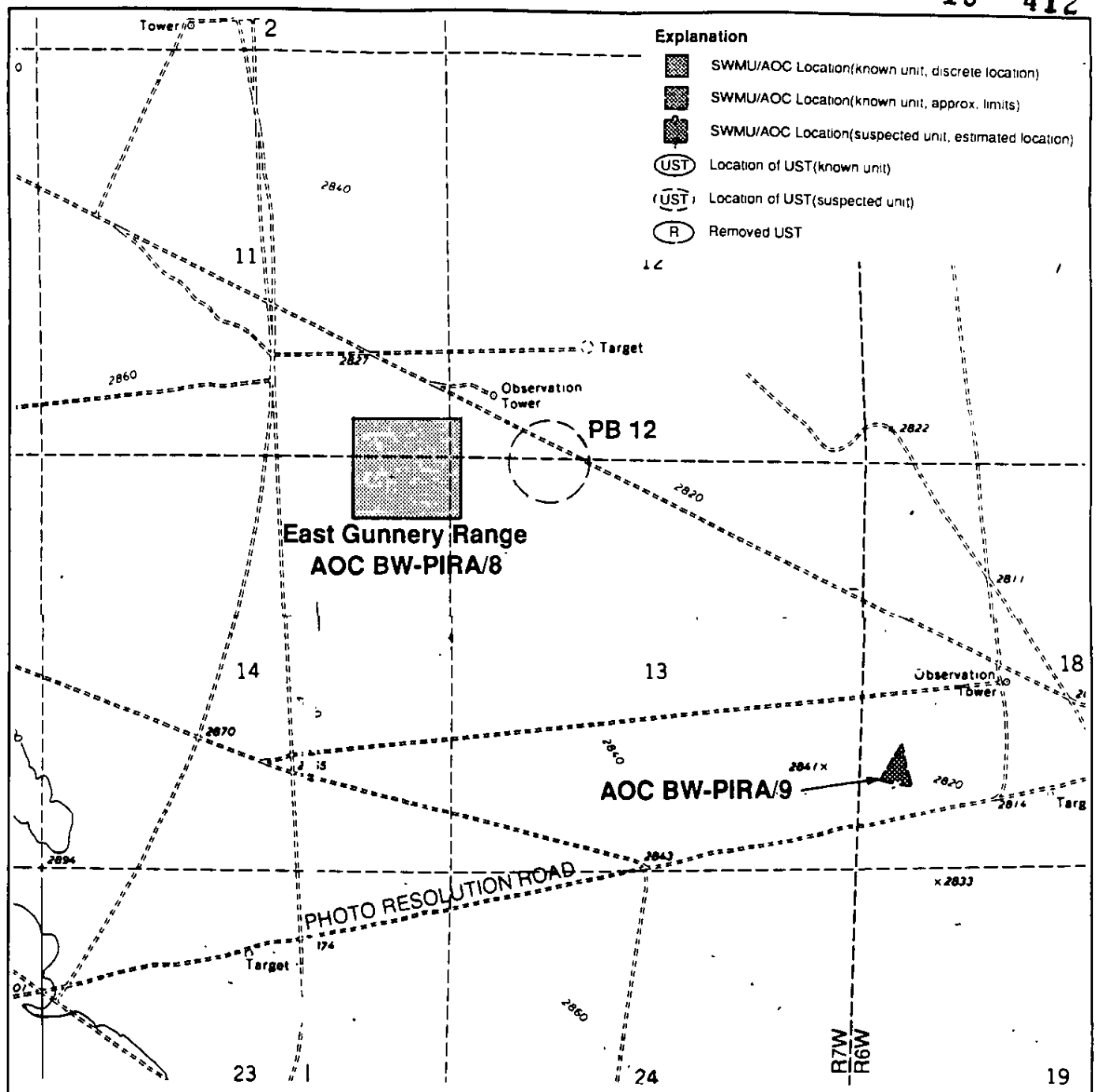
Project No 91-1006

Base-Wide Miscellaneous ESI/RFA

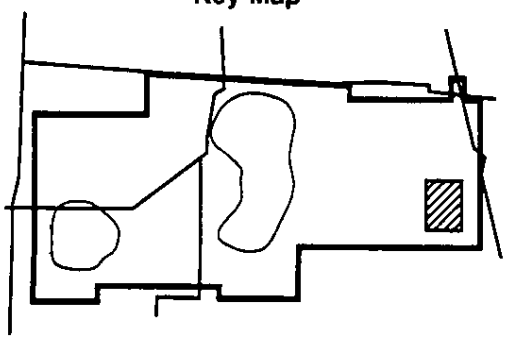
PIRA (Off Range) - Former HiX-12 Target

9-93

Figure 3-35



Key Map



North

0 1/2 1 Mile

Scale

Source: Base map from U.S.G.S. Kramer Junction, CA and Red Buttes, CA Quadrangles, 1973.

The Earth Technology Corporation

Project No 91-1006

Base-Wide Miscellaneous ESI/RFA

PIRA (East Range) - East Gunnery Range and Small Dry Lake Disposal Site

9-93

Figure 3-36

SWMU No. BW-PIRA/1 Precision Impact Range Area Burial Pits

INFORMATION SUMMARY: Site File B-PIRA; Document EAFB-D-86

LOCATION: The location of the units is unknown; therefore, they are not shown on any figure.

SIZE: The size of the units is unknown.

MATERIAL: The units consist of earthen pits in which scrap inert ordnance and other solid waste material is buried.

CONNECTIONS: None.

PURPOSE: The units were used to dispose of scrap inert ordnance from PIRA. Until recently when this function was taken over by CSC, CE was responsible for the removal of all inert debris from the range. Based on an anecdotal report, Burial Pits on the PIRA may have been used for inert debris disposal prior to the use of the MRBS (SWMU No. BW-MRBS/1) south of the PIRA Downfall facility (Buildings 9500 to 9512). The existence of the Burial Pits could not be confirmed by documentation or other interviews.

START UP: Unknown. **DEACTIVATED:** Unknown.

WASTES MANAGED: Scrap inert ordnance and other solid waste materials, including car parts, etc., reportedly were buried in the units by CE.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: None, the units were not found.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of the units' use are unknown. The current potential for release is low since the units are no longer active.

Air - The potential for release to the atmosphere is low since the units handled only solid waste.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the wastes handled are not expected to degrade to methane gas.

RECOMMENDATION: No further investigation. The location of the burial pits is unknown.

AOC No. BW-PIRA/1 Precision Impact Range Area PB1 and Former Chemical PB

INFORMATION SUMMARY: Site File B-PIRA; Photo BW-64

LOCATION: Bombing Target PB1 is located approximately 1 mile north of Foul Line Road, where the road turns east after running north. The Former Chemical PB is located approximately 3,500 feet southeast of PB1. PB1 is in the West Range of PIRA at T9N, R8W, Sections 7 and 8. The Former Chemical PB is located at T9N, R8W, in Section 17 (Figure 3-33).

SIZE: PB1 is approximately 1,500 feet in diameter. Three instrument towers support the facility. The Former Chemical PB is approximately 1,300 feet in diameter. It is not visible on 1967 aerial photographs.

WASTES MANAGED: PB1 is currently used as a bombing target for inert ordnance. In the past, both PB1 and the Former Chemical Target may have been used for testing chemical ordnance.

CONCERN: PB1 is the oldest target on PIRA. It was one of the most heavily used targets during the 1960s through 1980, but is seldom used today. Maps from 1944 and 1953 identify an area approximately 3,500 feet southeast of the target as "Chemical PB." In the late 1980s, some canisters were discovered in the vicinity of PB1 and initially were suspected to contain mustard gas. However, their contents were determined to be some type of oily liquid.

According to the Chemical Command Historian for Aberdeen, the only record of chemical materials use at Muroc AFB was during World War II, when chemical identification sets were used. As of February 1945, there were 27 M1 chemical identification sets listed for NAIF, Muroc, CA. The sets consisted of containers which held small samples of various chemical agents for use in recognition exercises. Typically a container was detonated on the ground, and the trainees approached the small gas cloud until they could sniff the agent and feel its effects. Instruction pamphlets for use of the chemical identification sets stated that after the exercise, the area where the container was detonated should be neutralized with bleach, then covered over.

A suspected chemical bomb was found near the southwestern corner of PB1 in mid-1992. The ordnance was detonated in place by EOD personnel; its exact nature was not determined.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since it is unknown whether chemicals were released at the site. The current potential for release is low since only inert ordnance is used at the target.

Air - The potential for release to the atmosphere is low since only inert materials are fired.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since no organic materials are handled.

RECOMMENDATION: No further investigation. Potentially dangerous area.

AOC No. BW-PIRA/2 Precision Impact Range Area PB8 and Former HiX Target

INFORMATION SUMMARY: Site File B-PIRA

LOCATION: Target PB8 is located approximately 0.5 mile south of Foul Line Road where the road runs east-west. The Former HiX target is located approximately 3,000 feet south of PB8. PB8 and the Former HiX Target are in the West Range of PIRA, at T9N, R8W, in Section 22 (Figure 3-30).

SIZE: Maps show a circular target approximately 1,400 feet in diameter, surrounded by a rectangular drop zone that measures 1.3 miles by 1.5 miles.

WASTES MANAGED: PB8 is used as a drop zone for palletized materials and equipment. Troops also sometimes practice parachuting here. In 1968, Target PB8 was reportedly used for firing live ordnance during a single training flight from a B-52 aircraft.

CONCERN: Live ordnance was reportedly dropped at PB8 during the late 1960s. An aerial photo from January 1969 shows possible evidence of active bombing at the bombing target. In a 1953 map, an area approximately 3,000 feet south of the target center is shown as an HiX (high explosive) target.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since unexploded, live ordnance may have penetrated the ground surface. The current potential for release is low since the unit is used only as a drop zone.

Air - The potential for release to the atmosphere is low since the unit is used as a drop zone.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: No further investigation. Potentially dangerous area.

AOC No. BW-PIRA/3 Precision Impact Range Area PB10

INFORMATION SUMMARY: Site File B-PIRA; Photo BW-69

LOCATION: Bombing Target PB10 crosses Foul Line Road with the center of the target located approximately 500 feet west of Foul Line Road where the road runs north-south. PB10 is in the West Range of PIRA at T9N, R8W in Sections 19 and 20 (Figure 3-33).

SIZE: PB10 is approximately 1,500 feet in diameter.

WASTES MANAGED: The unit is currently used as a bombing target for inert ordnance. EOD personnel clear the area approximately once a month. This is also the area where EOD personnel blow the nose and tail-ends off large scrap/inert ordnance before it is disposed in the Munitions Residue Burial Pits (SWMU No. BW-MRBS/1) at Downfall.

CONCERN: Reportedly, in the late 1980s workers removing ordnance from the PB10 target area broke out in a skin rash. The cause of the rash was unknown.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is unknown, since it is unknown what caused the skin rash among EOD workers removing ordnance from PB10.

Air - The potential for release to the atmosphere is low since only inert materials are fired.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the target is not in active use.

RECOMMENDATION: No further investigation. Potentially dangerous area.

AOC No. BW-PIRA/4 Precision Impact Range Area PB6

INFORMATION SUMMARY: Site File B-PIRA; Photo BW-80

LOCATION: This target is located in the extreme northeastern corner of the base, at T10N, R7W, in the northeastern quarter of Section 24. It is in a part of the PIRA that is also known as the PB6 Range (Figure 3-34).

SIZE: The target area is approximately 1,000 feet in diameter.

PROBABLE WASTES: The unit is currently inactive, but according to personnel who manage the bombing range, is a likely target to have been used for chemical ordnance testing in the past, because of its remote location. The types of agents that may have been used are unknown.

CONCERN: Based on information obtained during the VSI, it is possible that chemical ordnance testing may have occurred in this target area. The unit has been in existence since the 1940s.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since it is unknown whether chemicals were released at the site. The current potential for release is low since the unit is inactive.

Air - The potential for release to the atmosphere is low since the unit is inactive.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since no organic wastes are handled.

RECOMMENDATION: No further investigation. Potentially dangerous area.

AOC No. BW-PIRA/5 **Precision Impact Range Area HiX-4 Target**

INFORMATION SUMMARY: Site File B-PIRA; Photo BW-65

LOCATION: The unit is located on the northern side of Mercury Boulevard approximately 1 mile east of Rich Road, near the intersection of Mercury Boulevard and the dirt access road to the PIRA Downfall facility. The unit is at T10N, R8W, in Section 34 (Figure 3-29).

SIZE: A 1953 map shows the unit to be a circle approximately 1,000 feet in diameter.

WASTES MANAGED: Wastes managed by the unit are unknown, but may include high explosives.

CONCERN: The unit is shown on a 1953 map; its period of use is unknown. Although it is identified as a high-explosive area, the type of explosive and the extent to which it was used are unknown.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since activities and wastes associated with the unit are unknown. The current potential is low since the unit is no longer in use.

Air - The potential for release to the atmosphere is low since the explosives used were probably not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since organic wastes were not handled.

RECOMMENDATION: No further investigation. Potentially dangerous area.

AOC No. BW-PIRA/6 **Precision Impact Range Area HiX-12 Target**

INFORMATION SUMMARY: Site File B-PIRA

LOCATION: The unit is located on the western boundary of the East Range, near Phillips Laboratory Test Area 1-36. The unit is at T10N, R7W, in Section 28 (Figure 3-35).

SIZE: A 1953 map shows the unit to be a circle approximately 1,000 feet in diameter.

WASTES MANAGED: Wastes managed by the unit are unknown, but may include high explosives.

CONCERN: The unit is shown on a 1953 map; its period of use is unknown. Although it is identified as a high-explosive area, the type of explosive and the extent to which it was used are unknown.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since activities and wastes associated with the unit are unknown. The current potential is low since the unit is no longer in use.

Air - The potential for release to the atmosphere is low since the explosives used were probably not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since organic wastes were not handled.

RECOMMENDATION: No further investigation. Potentially dangerous area.

AOC No. BW-PIRA/7 Precision Impact Range Area West Gunnery Range

INFORMATION SUMMARY: Site File B-PIRA; Photo BW-79

LOCATION: The West Gunnery Range is located approximately 5 miles southeast of where Mercury Boulevard turns east after running north along the eastern edge of Rogers Dry Lake. The unit is in the West Range of PIRA, T9N, R8W, Sections 18 and 19 (Figure 3-33).

SIZE: There are two target areas in the unit; each is about 1,500 feet by 2,000 feet. There are a total of 20 targets, 10 on each side of Television Tower T7. Reportedly, the ground was pulverized when the range was established in 1968, to keep shells from ricocheting back into aircraft.

WASTES MANAGED: The unit manages inert 20 mm shells fired at cloth targets by machine guns. The shells have a steel casing with brass and aluminum sheaths; slugs are armor-penetrating steel. Live ammunition from "duds" may be found in the unit.

CONCERN: Due to the explosive hazard posed by the potential for "duds" on the Gunnery Range, the EOD clears the gunnery range approximately every 5 years. However, some live gunpowder may be missed.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is low since steel, brass and aluminum are relatively inert materials. However, live ammunition may pose a hazard.

Air - The potential for release to the atmosphere is low since volatile wastes are not handled.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since organic wastes are not handled by the unit.

RECOMMENDATION: No further investigation.

AOC No. BW-PIRA/8 **Precision Impact Range Area East Gunnery Range**

INFORMATION SUMMARY: Site File B-PIRA

LOCATION: The East Gunnery Range is located in the East Range, approximately 2 miles northeast of Haystack Butte. It is located between PB11 and PB12, at T9N, R7W, in Section 14 (Figure 3-36).

SIZE: There are two target areas in the unit; each is about 1,300 feet by 2,600 feet.

WASTES MANAGED: In the past, the unit managed inert shells fired from aircraft guns. The exact type of waste handled at the unit is unknown, but based on operations at the West Gunnery Range (AOC No. BW-PIRA/7), the shells may have been 20 mm, with brass and aluminum sheaths; and armor-piercing steel slugs. Live ammunition from "duds" may be found in the unit.

CONCERN: The unit has not been used in recent years, and practices for clearing the range of "duds" in the past are not known. As with the West Gunnery Range, some explosive material may still be present at the unit. Reportedly, the unit may be reactivated in the near future.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is low since steel, brass and aluminum are relatively inert materials. The current potential is low since the unit is not currently used. However, live ammunition may pose a hazard.

Air - The potential for release to the atmosphere is low since volatile wastes are not handled.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since organic wastes are not handled by the unit.

RECOMMENDATION: No further investigation.

AOC No. BW-PIRA/9 Precision Impact Range Area Small Dry Lake Disposal Site

INFORMATION SUMMARY: Site File B-PIRA; Document EAFB-D-80

LOCATION: A 1987 document provides an anecdotal report in which the unit is located at a small dry lake approximately 9,000 feet to 11,000 feet east or northeast of Haystack Butte in the PIRA. On maps, no dry lake can be identified in the area described; however, one is located approximately 17,000 feet east of Haystack Butte, at T9N, R6W, in the southwestern quarter of Section 18 (Figure 3-36). This area is located approximately 0.25 mile north of Photo Resolution Road which transects both the PIRA west and east ranges.

SIZE: The size of the affected area is unknown; the dry lake bed is approximately 3 acres in size.

PROBABLE WASTES: Waste sodium hydroxide, red fuming nitric acid, nitrogen tetroxide, propane, and hydrazine, mixed with large quantities of water, were reportedly disposed of at the unit.

CONCERN: The document reports that sometime between 1970 and 1974, a 40-foot flat bed truck full of 55-gallon drums of the above wastes was driven to the unit. All of the drums were punctured by a "remote puncturing device" (possibly a gun) and left to drain. According to the document, the drums were removed, but the unit may still have plexiglass scattered on the ground surface. During the 1992 VSI, no evidence of release or plexiglass were found; however, 20-millimeter ammunition clips were found (possibly from the "remote puncturing device").

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since it is unknown if the unit observed is the one originally reported. The current potential for release is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the wastes handled do not generate such gases.

RECOMMENDATION: No further investigation. Insufficient evidence to sample.

RADAR RANGES

The Radar Ranges are located west of Rogers Dry Lake. The AF-38, AF-41, NASA-05, NASA-34, and NIKE RADAR Complex are located northwest of the Main Base Flight Line, in T10N, R10W, Sections 10, 14, 23 and 24.

The former Chief of Space Positioning had responsibility for all the precision tracking optical systems (e.g., Askania, CONTRAVES) and precision tracking radars (e.g., Nikes, SCR-584s, FPS-16s) used on the range. The magnetrons used in the radars were obtained through Base Supply and carried a radioactive seal. Inoperative "maggies" were sent back to Base Supply, which presumably shipped the high-cost items back to a depot for servicing or disposal. However, the exact disposition of the magnetrons is unknown (EAFB-D-86).

The North RADFAG (Radar Fidelity and Geometrical Range) is located in the extreme northwestern corner of the base. This range consists of a series of spruce telephone poles in "L" and square shapes, with targets on top. The telephone poles are so arranged to resemble potential targets such as a jeep or tank in cross sectional area. The targets are used to test aircraft radar equipment; no munitions are fired (SF B-PIRA; EAFB-D-86).

No SWMUs or AOCs were identified at the Radar facilities.

RICH SIDING

The area known as Rich Siding is located at T10N, R8W, in the northeastern quarter of Section 9. It is approximately 300 feet east of Rich Road and 1.5 miles south of the intersection of 20 Mule Team Road and Rich Road. The area consists of a railroad spur that terminates near the eastern side of Rich Road. The spur was formerly part of the Atchison, Topeka, and Santa Fe Railroad that continued west of Rich Road and across Rogers Dry Lake. During construction of the Main Base in the early 1950s, the railroad tracks west of Rich Road were removed and rerouted along the northern side of the lakebed. The remaining spur that terminated just east of Rich Road was left in place (SF B-RS; Computer Sciences Corporation, 1991).

During the late 1950s and early 1960s, Rich Siding was reportedly used extensively for offloading railroad tank cars of red fuming nitric acid, liquid nitrogen, and liquid oxygen to tanker trucks. The trucks, which parked on the dirt road along the south side of the tracks, then took the substances to the Phillips Laboratory in support of the BOMARC missile program. Reportedly, small spills (on the order of 1 pint to 1 gallon) of red fuming nitric acid occasionally occurred when transfer lines were disconnected. The fire department was at the site during offloading operations, and the spills were neutralized, then diluted with water (SF B-RS).

Rich Siding is no longer used for offloading fuels. During the 1992 VSI, some pieces of concrete and wood were observed in the area. A portable toilet and a large tent were located nearby. The ground surrounding the area did not appear to be stained. Further east on the railroad tracks, several small piles of a white powder were observed. No SWMUs or AOCs were identified at Rich Siding (SF B-RS).

ROGERS DRY LAKE DRUM DISPOSAL SITE

Background

The Rogers Dry Lake Drum Disposal Site (IRP Site 1), which is located near the northern tip of Rogers Dry Lake, was formerly used for hazardous waste disposal and contains five subsites. Subsites 1A and 1E (SWMU No. BW-DDS/1) are located in T10N, R9W, in the northwest quarter of Section 4; and in T11N, R9W, in the southwestern quarter of Section 33. Subsites 1B, 1C and 1D (SWMU No. BW-DDS/2) are located in T10N, R9W, in the northwestern quarter of Section 3.

During the 1950s, 1960s, and 1970s, the five subsites were used mainly by the Air Force Rocket Propulsion Laboratory (AFRPL, now known as the Phillips Laboratory) for waste disposal. Wastes discharged to these sites included oils, solvents, nitric acids, alcohols, and others. Some of these wastes were discharged directly to the soil in trenches, while others were disposed in 55-gallon drums (Earth Technology, 1991b).

All five subsites have been remediated by drum, soil, and debris removal. Subsites 1A and 1E were then graded to natural contours, while Subsites 1B, 1C, and 1D were capped. According to the Remedial Action Plan, postclosure monitoring of nine monitoring wells installed in 1985 was scheduled to occur quarterly for 2 years, and annually for 3 to 30 years, provided that no contaminants were detected in the first 2 years of sampling. However, the wells were sampled only once, in June 1987 (Earth Technology, 1991b).

Previous Investigations

Investigations at the Rogers Dry Lake Drum Disposal Site took place from 1982 through 1987, and were conducted as follows (Earth Technology, 1991b):

- Phase I Assessment (1981)
- Phase II Confirmation (1982): five soil boreholes drilled and sampled; one monitoring well (ES-11x) installed
- Phase II Survey (1984): three shallow boreholes drilled and sampled; one monitoring well (Well 12) installed, from which soil and groundwater samples were collected
- Phase IV Remedial Action Plan (1984): geophysical measurements; 33 shallow soil samples and 45 drum samples collected and analyzed
- Monitoring Well Resampling Program (1988). Groundwater samples from seven monitoring wells (W-1-AE2 through 4, W-1C1 through 4) installed in 1985. (Shallow Wells W-1-AE5 and W-1-C5 were dry).

Sampling Results Summary

Soil Analyses

Soil samples from Subsite 1C were analyzed for nitrates since the area was used for disposal of nitric acid. In February 1982, three soil samples from Borehole ES1C were sampled and analyzed for nitrates. Concentrations ranged from 965 mg/kg to 19,400 mg/kg of nitrate. Six soil samples from the installation of Well 12 were analyzed in August 1983, and reported to have nitrate concentrations of 0.19 mg/kg to 0.77 mg/kg. Thirteen shallow soil samples were analyzed for nitrates in May 1984; concentrations ranged from 1.2 mg/kg to 10,000 mg/kg.

Soil samples from Subsites 1A, 1B, and 1D were analyzed for organic compounds. Seventeen soil samples from seven boreholes and one monitoring well were analyzed in February 1982 and September 1983. The results were as follows:

- Trichloroethene (TCE) was detected in one borehole in Subsite 1D, at a maximum concentration of 0.559 mg/kg at 3 feet
- Methylene chloride and 1,1-dichloroethane were detected at a depth of 3 feet in two boreholes in Subsite 1D, at maximum concentrations of 0.36 mg/kg and 0.47 mg/kg, respectively
- Chloroform was detected in 11 of 12 soil samples, at concentrations ranging from 0.02 mg/kg to 1.29 mg/kg
- Freon-11 was detected in 11 of 12 soil samples, at concentrations ranging from 1.20 mg/kg to 28.2 mg/kg.
- Dichlorodifluoromethane (DCDFM), carbon tetrachloride, and 1,1,2,2-tetrachloroethane were each detected in one of 12 samples, at concentrations of 2.38 mg/kg, 0.06 mg/kg and 0.21 mg/kg, respectively
- Fuel oil and motor oil were both found to be present in one borehole in Subsite 1A, at a depth of 10 feet (Earth Technology, 1991b).

Groundwater Analyses

In 1983, nitrate was found at a concentration of 0.54 mg/l in Monitoring Well 12, which is now abandoned. Nitrate was detected at concentrations of 0.22 mg/l and 0.44 mg/l in Wells W-1-C3 and W-1-C4 in 1987. With the exception of Well W-1-C2, where toluene was found at a concentration of 8.4 μg/l, no purgeable halocarbons or aromatic compounds were detected in any of the seven groundwater samples analyzed in June 1987. Only in Well W-1-C1 were total petroleum hydrocarbons (1 mg/l) detected. Also, with the exception of Well W-1-C1 (TDS concentration 620 mg/l), TDS results were found to be below 500 mg/l (Earth Technology, 1991b).

The SWMUs at the Rogers Dry Lake Drum Disposal Site are shown in Figure 3-31 and described on the following pages.

SWMU No. BW-DDS/1 Rogers Dry Lake Drum Disposal Site (IRP Subsites 1A, 1E)

INFORMATION SUMMARY: Site File B-DDS; Earth Technology (1991b)

LOCATION: Subsites 1A and 1E, both part of IRP Site 1, are located near the northern tip of Rogers Dry Lake. They are at T10N, R9W, in the northwestern quarter of Section 4; and in T11N, R9W, in the southwestern quarter of Section 33.

SIZE: Subsites 1A and 1E are bounded by an area that is approximately 700 feet long and 600 feet wide. Subsite 1A was an open trench approximately 20 feet wide, 10 feet deep, and 60 feet long. Subsite 1E was a shallow trench in an abandoned road bed (dimensions unknown).

MATERIAL: The two subsites were originally trenches excavated into native soils. As part of the remedial action for Site 1, the trenches were backfilled and graded to natural contours.

CONNECTIONS: None.

PURPOSE: Subsite 1A was used for drum disposal. When it was closed in 1978, 13 55-gallon drums of motor oil, lube oil, and dry cleaning and other solvents had been dumped into it, along with metal debris. Subsite 1E was used for the disposal of drums, metal, and other debris.

STARTUP: Estimated 1950s. **DEACTIVATED:** Closed 1978; remediated 1984.

WASTES MANAGED: Contents of the drums found in Subsite 1A were motor oil, lube oil, dry cleaning solvents, and other solvents. One of the drums at Subsite 1E contained a white powder, which was sampled for metals content. It contained numerous metals, among which boron was found at the highest concentration, at 18,000 mg/kg.

RELEASE CONTROLS: None, the trenches were unlined.

HISTORY OR EVIDENCE OF RELEASE:

One soil borehole (ES1A) was drilled at Subsite 1A in 1982, and samples were collected from 3-, 10-, and 50-foot depths. Fuel oil and motor oil were present; chloroform and Freon-11 were detected at maximum concentrations of 0.69 mg/kg and 14.8 mg/kg, respectively. In 1984, one shallow soil sample (S1A1) and a background sample were collected at Subsite 1A, and two shallow soil samples (S1E1 and S1E2) were collected at Subsite 1E. The samples were analyzed by EPA Method 8010; no halogenated volatile organic compounds were detected.

In 1985, three monitoring wells (W-1-AE2 to W-1-AE4) were installed to depths between 180 feet and 190 feet; a fourth well (W-1-AE5) was installed to a depth of 100 feet. The purpose of shallow Well W-1-AE5 was to monitor possible perched groundwater above a confining bed; the well was dry when groundwater sampling was attempted in June 1987. Groundwater

samples were collected from Wells W-1-AE2 to W-1-AE4 in June 1987. No volatile organic compounds (by EPA Methods 601/602) or TPH (by EPA Method 418.1) were detected.

VSI COMMENTS: Monitoring Wells W-1-AE2 and W-1-AE5 were observed; both were unlocked. Subsite 1A is approximately 250 feet northeast of the Former Missile Launch Site (AOC No. BW-NBM/3).

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since relatively low levels of contamination were detected in soils near Subsite 1A. The current potential is low since the units have been remediated and are no longer used for waste disposal.

Air - The potential for release to the atmosphere is low since no volatile wastes are on the ground surface.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: No further investigation. The Air Force is awaiting a No Further Response Action Planned (NFRAP) approval for Site 1.

SWMU No. BW-DDS/2 **Rogers Dry Lake Drum Disposal Site (IRP Subsites 1B, 1C, 1D)**

INFORMATION SUMMARY: Site File B-DDS; Photo BW-59; Earth Technology (1991b)

LOCATION: Subsites 1B, 1C, and 1D, all part of IRP Site 1, are located near the northern tip of Rogers Dry Lake. They are located at T10N, R9W, in the northwestern quarter of Section 3.

SIZE: Subsites 1B, 1C, and 1D are bounded by an area that is approximately 700 feet long and 600 feet wide. Subsite 1B included an area 10 feet by 200 feet and another area 10 feet by 30 feet on the edge of Rogers Dry Lake. Subsite 1C included three open trenches (30 feet by 40 feet; 10 feet by 50 feet; 100 feet by 125 feet) and a 3-foot deep "burning pit." Subsite 1D consisted of two open trenches with dimensions of 15 feet by 200 feet by 10 feet and 30 feet by 150 feet by 8 feet.

MATERIAL: Subsite 1B was a flat section of a small, unnamed playa, used for drum storage. Subsites 1C and 1D were originally trenches excavated into native soils. As part of the remedial action for Site 1, the trenches at Subsites 1C and 1D were backfilled, capped, and graded to natural contours.

CONNECTIONS: None.

PURPOSE: Subsite 1B was used for drum storage. One area contained 97 rusted, 55-gallon drums stored on pallets; another contained 16 drums. Subsite 1C included three open trenches used for the disposal of fuming white and red nitric acid, and a "burning pit" used for burning waste fuels and furfuryl alcohol in a flat-bottomed metal pan. Subsite 1D consisted of two open trenches storing approximately 700, mostly empty, drums. The contents of the drums were apparently burned in the burning pit.

STARTUP: Estimated 1950s. **DEACTIVATED:** Estimated 1970s; remediated 1984.

WASTES MANAGED: At Subsite 1B, most of the drums were empty; however, 40 contained liquids that may have been oil/water mixtures or light solvents. At Subsite 1C, fuming white and red nitric acid (approximately 1,000 gallons to 1,500 gallons weekly) were reportedly disposed in the trenches, and flushed into the soil with approximately 1,000 gallons of water. Waste fuels and furfuryl alcohol were burned in the burning pit. The drums at Subsite 1D had stored aniline, furfuryl alcohol, engine cleaner, and ethyl alcohol. The drums were reported to be emptied before placement in the trenches. The contents of the drums were apparently burned in the burning pit.

RELEASE CONTROLS: Other than the metal pan for the burning pit, there were no release controls. The units were not lined.

HISTORY OR EVIDENCE OF RELEASE: One soil borehole (ES1B) was drilled at Subsite 1B in 1982 and soil samples were analyzed for aniline, purgeable halocarbons, and PCBs. One soil borehole (ES1C) was drilled at Subsite 1C and soil samples were analyzed for nitrates and pH. Two soil boreholes (ES1D1 and ES1D2) were drilled at Subsite 1D. Soil samples were analyzed for ethanol, furfuryl alcohol, motor and fuel oils, aniline and purgeable halocarbons. Soil samples from Borehole ES1D2 were also analyzed for nitrates and pH.

No aniline or PCBs were detected in Borehole ES1B1. No ethanol, furfuryl alcohol, motor oil, fuel oil or aniline were detected in Boreholes ES1D1 and ES1D2. Purgeable halocarbons were detected in Boreholes ES1B, ES1D1 and ES1D2, at maximum concentrations of 0.36 mg/kg methylene chloride; 1.29 mg/kg chloroform; 0.47 mg/kg 1,1-DCA, 28.2 mg/kg Freon-11; 2.38 mg/kg DCDFM; 0.21 mg/kg 1,1,2,2-TCA; 0.06 mg/kg carbon tetrachloride; and 0.0559 mg/kg TCE.

Nitrate was detected at concentrations ranging from 965 mg/kg to 19,400 mg/kg in soil samples from slant Borehole ES1C, drilled to 55 feet directly under one of the three nitric acid disposal pits. Nitrate was not detected in Borehole ES1D2.

In August and September 1983, three boreholes (Boreholes 1 to 3) and one monitoring well (Well 12) were excavated at Subsites 1C and 1D. Soil samples were collected from the boreholes at 10 feet and from the well at 10 feet and 20 feet and analyzed for chloroform and Freon-11. Chloroform was found at a concentration of 2.5 ppb only.in the 10-foot soil sample from Well 12. Freon-11 was not detected in any sample.

Nitrate was found at a concentration of 0.54 mg/l in groundwater from monitoring Well 12, which is now abandoned.

Shallow soil samples were collected in 1984 from two locations (S1B1 and S1B2) at Subsite 1B; 13 locations (S1C1-D, S1C2 to S1C9 and S1C11 to S1C14) at Subsite 1C; eight locations (S1D1-1 to S1D1-7 and S1D1-5D) at Subsite 1D1; and six locations (S1D2-1 to S1D2-4, S1D2-1D and S1D2-7) at Subsite 1D2. No volatile halogenated organic compounds were detected by EPA Method 8010. Nitrate concentrations ranged from 1.2 mg/kg to 10,000 mg/kg in the 13 shallow soil samples collected at Subsite 1C.

One upgradient Monitoring Well (W-1-C1) and three downgradient Monitoring Wells (W-1-C2 to W-1-C4 were installed in 1985 to depths between 168 feet and 200 feet. A fourth downgradient Monitoring Well (W-1-C5) was installed to a depth of 95 feet. The purpose of the shallow Well W-1-C5 was to monitor possible perched groundwater located above a confining bed; the well was dry when groundwater sampling was attempted in June 1987. Nitrate was detected at concentrations of 0.22 mg/l and 0.44 mg/l in Wells W-1-C3 and W-1-C4 in 1987. With the exception of Well W-1-C2, where toluene was found at a concentration of 8.4 μg/l, no purgeable halocarbons or aromatic compounds were detected in 1987. Only in Well W-1-C1 were total petroleum hydrocarbons (1 mg/l) detected.

VSI COMMENTS: Subsites 1C and 1D are fenced in; however, the warning signs are no longer readable. The wellheads for Monitoring Wells W-1-C1, W-1-C2, and W-1-C5 were locked. The wellheads for Wells W-1-C3 and W-1-C4 were unlocked.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since relatively low levels of contaminants were detected in soils and groundwater. The current potential is low since the units have been remediated and are no longer used for waste disposal.

Air - The potential for release to the atmosphere is low since no volatile wastes are on the ground surface.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: No further investigation. The Air Force is awaiting NFRAP approval for Site 1.

SOUTH BASE ROCKET SLED TRACK

The South Base rocket sled track operated from the mid-1950s to the early 1960s, and was reportedly used weekly for acceleration, impact, and shock testing; ejection system testing; and parachute testing (Photo BW-110). Although the rails have been removed, the track's concrete foundation is still in place. The sled track crosses Lancaster Boulevard about 0.25 mile north of the southern gate to the base. The first sled track was 10,000 feet long, with sleds running west to east. The origin of this track was located about 0.5 mile east of Lancaster Boulevard. For shock tests conducted on the 10,000-foot track, dynamite was exploded on the northern side of the track between the track intervals of 5,000 feet and 8,000 feet. The explosions were to test the shock response of components mounted on the sled (SF B-SBRST; EAFB-D-85).

There were facilities, including a sheet metal shop, located at the origin of the 10,000-foot sled track, which became the midpoint of the subsequent 20,000-foot track that ran from east to west. The remains of two buildings (502 and 503) are still located at this midpoint. Building 502 on the southern side of the track was apparently used as a receiving station or viewing bunker, and Building 503 on the northern side was an earth-covered propellant storage bunker, reportedly for solid fuels. During the VSI, a Possible Disposal Area (AOC No. BW-RS/1) was observed on the north side of the tracks, east of Buildings 502 and 503 (EAFB-D-85).

The sleds were fueled by three kinds of oxidizer/fuel mixtures (EAFB-D-85):

- Red fuming nitric acid/aniline
- Liquid oxygen (LOX)/furfuryl alcohol
- Jet assisted take-off (JATO) bottles with various solid propellants.

The sleds using liquid propellants were reportedly fueled by a tanker truck; these propellants were not stored at the facility. For the liquid-fueled sleds, buckets full of TCE were used to clean engine parts following a run, and were reportedly discharged to the ground, possibly at the Midpoint Service Area (AOC No. BW-RS/2).

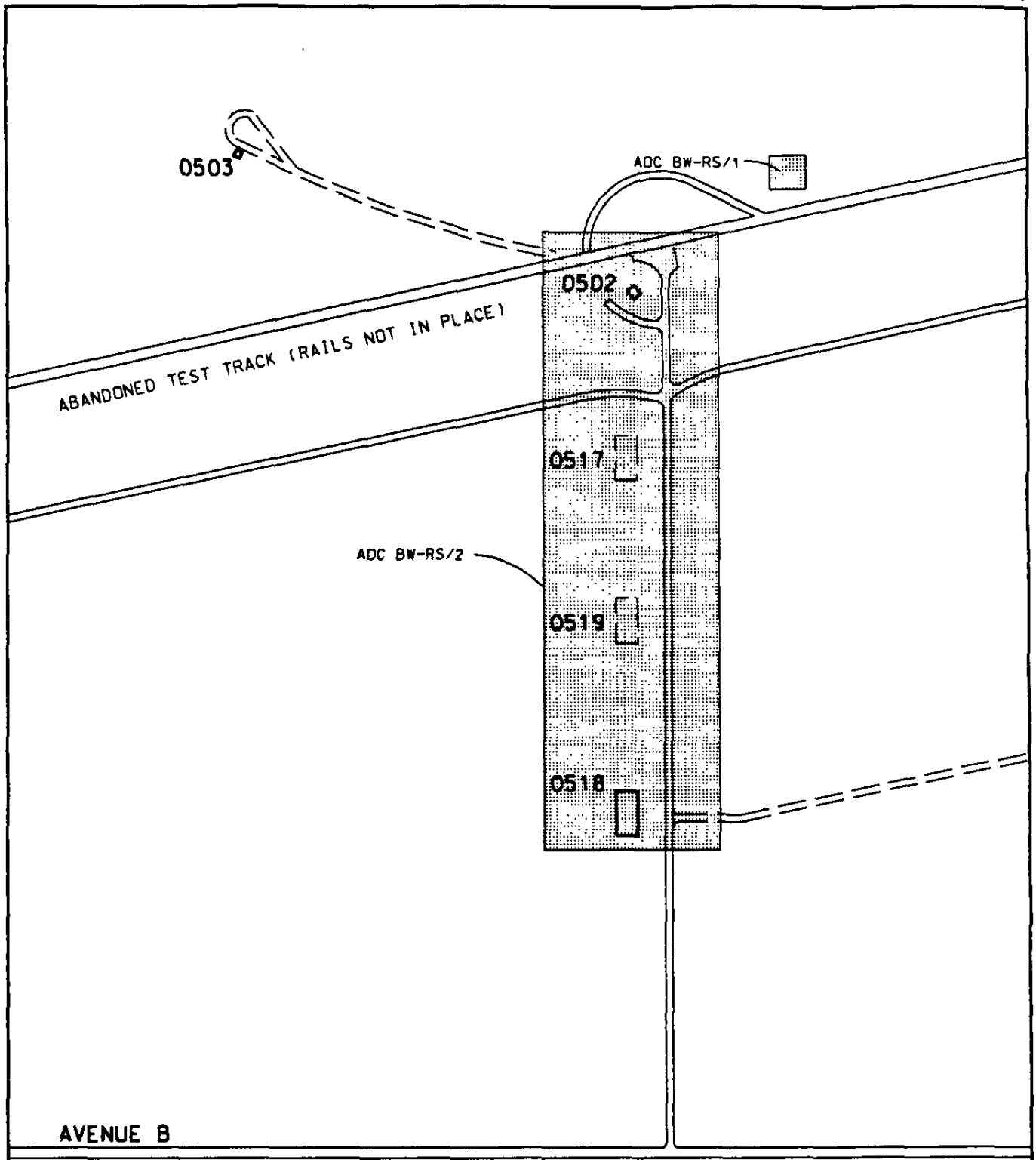
Approximately 0.9 mile east of the Midpoint Service Area is a small cluster of buildings including Building 512, identified as a RAD/MARS facility. On the western side of Building 512, a UST (Tank S013) was removed in September 1992. The tank had a capacity of 284 gallons and contained diesel fuel. Soil samples were obtained from depths of 2 feet and 6 feet below the UST (9 feet and 13 feet below grade) and analyzed for diesel and jet fuel (LUFT method) and for BTEX (EPA Method 8020). Only diesel was identified, at 15 mg/kg in the shallow soil sample. The tank site was declared clean by Kern County (SF B-SBRST; EAFB-D-97).

The Eastern Service Area (AOC No. BW-RS/3) is located just south of the eastern end of the track and reportedly included some support facilities. A water tower used for the sled's water brake system and fire control is also located near the eastern end of the track. Three USTs were

identified during a VSI in this area. The Building 533 UST (AOC No. BW-RS/4) is located east of Building 533. The Building 545 UST (AOC No. BW-RS/5) is located west of Building 545. The Building 540 UST (AOC No. BW-RS/6) is located south of Building 540 (SF B-SBRST; EAFB-D-85).

Northwest of the track's eastern end, on the west side of Scout Road, is Building 510. The building was constructed in approximately 1955, and was designed as Fire Station No. 3. It was never used as a fire station, however, but became the South Base rocket sled track's administrative building. In addition to housing the sled track's administrative offices, Building 510 also housed a complete film library of all projects and tests conducted at the South Base sled track. The film and photos were developed either at the Main Base or in another support building near the sled track, not in Building 510. In 1965, Building 510 became the base's Survival Training School and it is still used in this capacity. Beneath the main classroom in Building 510 is a wash rack drain area. The floor in this room was designed to drain the waste/rinsewater from the cleaning of fire trucks, which were originally intended to be garaged in this area. The wash rack drain area was never used for this function (SF B-SBRST; EAFB-D-85).

The AOCs at the sled track are shown in Figures 3-37 and 3-38 and are described on the following pages.



SWMU/AOC LOCATION (known unit, discrete location)

SWMU/AOC LOCATION (known unit, approx. limits)

SWMU/AOC LOCATION (suspected unit, estimated location)

UST LOCATION OF UST (known unit)

UST LOCATION OF UST (suspected unit)

R REMOVED UST

NORTH

0 200 400 FEET
SCALE

The Earth Technology Corporation

Project no.: 91-1006

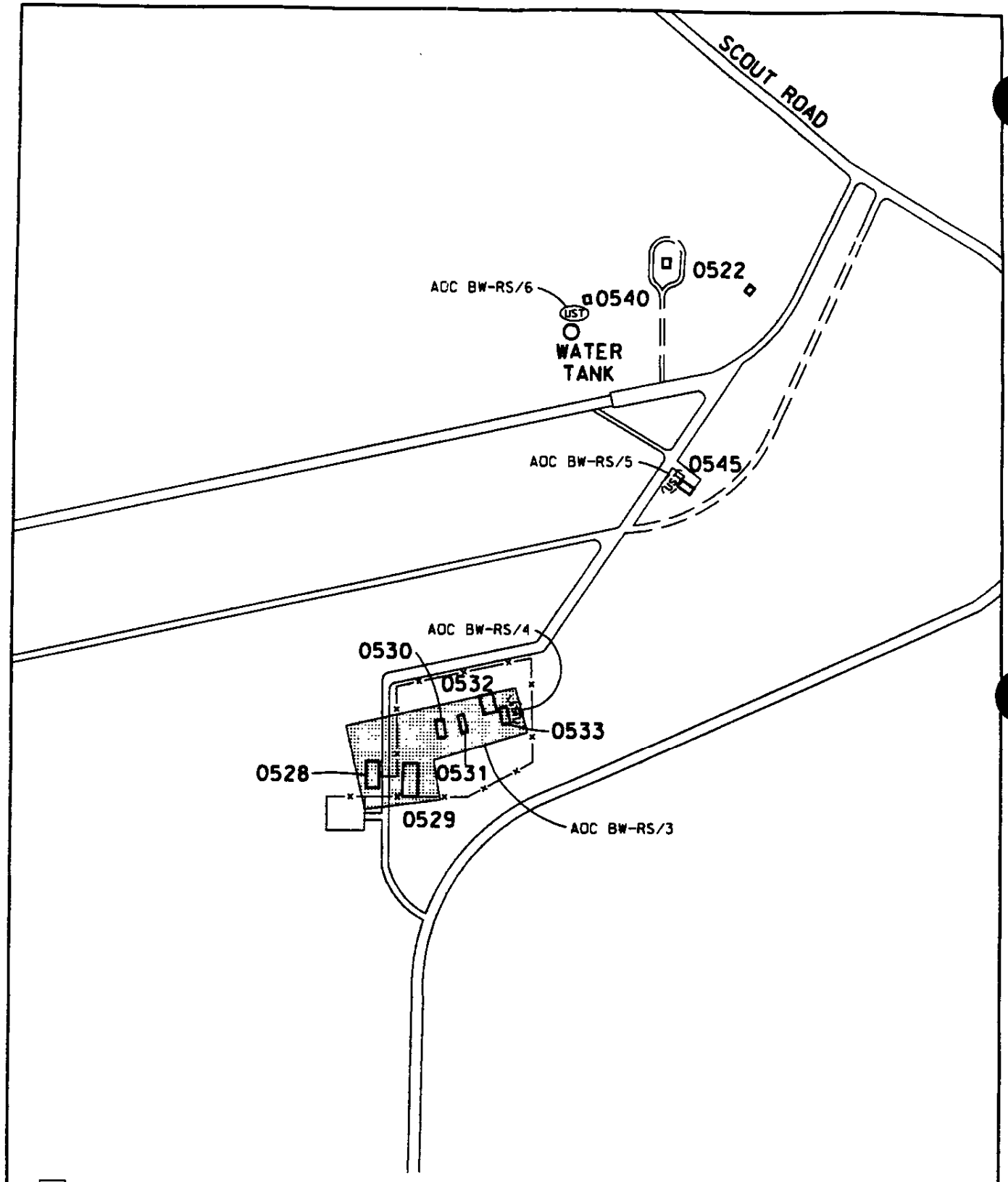
BASE WIDE MISCELLANEOUS ESI / RFA

Rocket Sled Track-Midpoint

9-93

Figure 3-37

EDWARDS\91100821\A026MPB.A03



SWMU/AOC LOCATION (known unit, discrete location)

SWMU/AOC LOCATION (known unit, approx. limits)

SWMU/AOC LOCATION (suspected unit, estimated location)

UST LOCATION OF UST (known unit)

UST LOCATION OF UST (suspected unit)

R REMOVED UST

NORTH

0 200 400 FEET
SCALE

The Earth Technology Corporation

Project no.: 91-1006

BASE WIDE MISCELLANEOUS ESI / RFA

Rocket Sled Track-East End

9-93

Figure 3-38

EDWARDS\91100621\A0262MPB.AO3

AOC No. BW-RS/1 Rocket Sled Track Possible Disposal Area

INFORMATION SUMMARY: Site File B-SBRST

LOCATION: The Possible Disposal Area is located about 600 feet northeast of Building 502, on the northern side of an earthen berm to the north of the track.

SIZE: The unit consists of an area measuring approximately 100 feet square. An earthen berm approximately 5 feet high borders the southern portion of the unit.

PROBABLE WASTES: Unknown, but evidence indicates that wastes may have included POL.

CONCERN: At the time of the VSI, eight old, empty drums, several of which were labeled lube oil, were observed in the area. Some drums were laying on their sides and appeared punctured. On the western side of the unit was an area approximately 10 feet square in which the soils appeared to be stained. The unit would probably have been used during the 1950s, when the sled track was in operation.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since empty drums and possible staining were noted. The current potential is low since the unit is no longer in use.

Air - The potential for release to the atmosphere is low since any volatile wastes have probably been released from surface soils.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were probably not handled.

RECOMMENDATION: Further investigation. Sample (PRL 290).

AOC No. BW-RS/2 **Rocket Sled Track Midpoint Service Area**

INFORMATION SUMMARY: Site File B-SBRST; Document EAFB-D-85

LOCATION: The unit is located at the approximate midpoint of the former 20,000-foot sled track. The location was originally the start point of the track when it was 10,000 feet long. About 1,400 feet south of Building 502 (the receiving station) is the site of former Building 518, which is identified on maps of the 20,000-foot track as a fabrication shop. Building 519 is identified as the photo and supply shop and Building 517 as the electronics laboratory. Only the foundations for these former buildings remain.

SIZE: The unit includes the entire service area, possibly including some shops in the vicinity of Building 502.

PROBABLE WASTES: Reportedly, wastes managed included primarily chlorinated solvents used in cleaning, such as carbon tetrachloride, PCE, and TCE. The sleds were fueled mainly by three oxidizer/fuel mixtures:

- Red fuming nitric acid/aniline
- Liquid oxygen (LOX)/furfuryl alcohol
- JATO bottles with various solid propellants.

The sleds using liquid propellants were fueled by a tanker truck. These propellants were reportedly not stored at the facility and releases of fuel were infrequent.

CONCERN: The Midpoint Service Area was used for cleaning rocket sled components after testing. Tests were conducted approximately weekly. Spent solvents were reportedly released to soils in the area, although the exact location is unknown. The unit would probably have been used during the mid- to late 1950s, when the sled track was in operation.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate since there are anecdotal reports that wastes were released directly to the soils. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: Further investigation. Sample (PRL 290).

AOC No. BW-RS/3 Rocket Sled Track Eastern Service Area

INFORMATION SUMMARY: Site File B-SBRST; Photos BW-60 and BW-61

LOCATION: The unit is located just southwest of the eastern end of the sled track (Figure 3-38). Maps of the 20,000-foot sled track identify Buildings 528 and 529 as part of the former motor pool which serviced the South Base rocket sled track. Building 530 was identified as a maintenance building. Building 531 was the operations office and Building 532 was the project building. Building 533 was identified as an instrumentation building.

SIZE: The unit encompasses the entire service area, estimated at several acres, which includes the locations of several support buildings.

PROBABLE WASTES: Wastes may have included solvents used in cleaning, such as carbon tetrachloride, PCE, and TCE.

CONCERN: Details of the use of the Eastern Service Area are not known. The area contained shops for servicing the rocket sleds and vehicles. Waste management practices associated with the unit are unknown, although according to long-time employees at the base, waste solvents and residual fuels were disposed of by being released to the ground surrounding the sled track and adjoining buildings. The unit would probably have been used during the 1950s, when the sled track was in operation.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since details of waste management practices have not been confirmed. The current potential is low since the unit is no longer in use.

Air - The potential for release to the atmosphere is low since the unit is no longer in use.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: Further investigation. Sample (PRL 291).

AOC No. BW-RS/4 **Building 533 UST**

INFORMATION SUMMARY: Document EAFB-D-79

LOCATION: The unit (Tank No. S037) is located east of Building 533.

SIZE: The capacity of the tank is unknown.

PROBABLE WASTES: The contents of the possible UST are unknown.

CONCERN: During the VSI, pipes were observed near Building 533 indicating the possible location of a UST.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the existence of the unit is uncertain and the unit integrity is unknown. The current release potential is low since the unit (if it exists) has been inactive for many years.

Air - The potential for release to the atmosphere is unknown since the status of the tank is unknown.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low because although the wastes handled are unknown the potential wastes handled are not expected to degrade significantly to methane.

RECOMMENDATION: Further investigation. Conduct geophysical survey. Sample (PRL 291).

AOC No. BW-RS/5 Building 545 UST

INFORMATION SUMMARY: Document EAFB-D-79

LOCATION: The unit (Tank No. S036) is located west of Building 545.

SIZE: The capacity of the tank is unknown.

PROBABLE WASTES: The contents of the UST are unknown. Base personnel indicate the tank was used to hold water.

CONCERN: During the VSI, a concrete vault filled with dirt was observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown. The current potential is low because the tank has been filled in.

Air - The potential for release to the atmosphere is low because the tank has been filled in.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low because although the wastes handled are unknown the tank has been filled in.

RECOMMENDATION: Further investigation. Conduct geophysical survey. Sample (PRL 291).

AOC No. BW-RS/6 **Building 540 UST**

INFORMATION SUMMARY: Document EAFB-D-79

LOCATION: The unit (Tank No. 5035) is located south of Building 540.

SIZE: The capacity of the tank is unknown.

PROBABLE WASTES: The contents of the possible UST are unknown.

CONCERN: During the VSI, pipes were observed near Building 540 indicating the possible location of a UST.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown, since the existence of the unit is uncertain, and the unit integrity is unknown. The current potential is low since the unit (if it exists) has been inactive for many years.

Air - The potential for release to the atmosphere is unknown since the status of the tank is unknown.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low because although the wastes handled are unknown the potential wastes handled are not expected to degrade significantly to methane.

RECOMMENDATION: Further investigation. Conduct geophysical survey. Sample (PRL 291).

SOUTHERN LANCASTER BOULEVARD AREA

The southern section of Lancaster Boulevard [the stretch approximately between the southern base gate and Jones Road (formerly Hospital Road)] contains several sites of former activity. The only facility currently in use along this stretch of road is Branch Memorial Park, a recreational area. Terrain is generally flat; the area is vegetated with salt bush stands.

Facilities identified as having the potential for the release of hazardous waste include a former mobile home/trailer park and a former store/gas station area, both on the western side of the road; and a former small-arms shooting range on the eastern side. An asphalt dump was identified southeast of the south gate, where Lancaster Boulevard becomes 120th Street.

Former Trailer Park Area

The former trailer park is located west of Lancaster Boulevard at T9N, R10W, in the southeast quarter of Section 22. The area may be accessed by a dirt road that heads west from Lancaster Boulevard at a point approximately 1.1 miles south of the intersection of Jones Road and Lancaster Boulevard. Three building foundations are located on the southern side of the dirt road near its intersection with Lancaster Boulevard. They appear to have been support buildings for the trailer park. Further west on the dirt road are the remains of the trailer park housing area (SF B-SLBA).

The easternmost foundation is located approximately 100 feet west of Lancaster Boulevard and 50 feet south of the dirt road. It is painted red. Just beyond this foundation is what appears to be a domestic dump (as evidenced by numerous bottle caps) approximately 100 feet by 100 feet in size. There is no evidence of USTs near the foundation. A sink hole is located approximately 20 feet from the southeastern side of the foundation (SF B-SLBA).

A second foundation, located slightly west of the first, can be identified by its broken floor tiles. An open, abandoned well head (labeled on a stake as Number 555) is located approximately 30 feet from the southeastern corner of the foundation. The well has a concrete base with a 6-inch-diameter pipe. Fifty feet east of the foundation is a Tar Pit (SWMU No. BW-LB/1) measuring approximately 30 feet by 30 feet (SF B-SLBA).

The westernmost foundation also has broken floor tiles. It is located approximately 100 feet to the west of the other two foundations. There is no evidence of USTs (SF B-SLBA).

The trailer park housing area is located approximately 0.5 mile west on the dirt road and covers an area of approximately 5 acres. Located near the housing area entrance is an open well (labeled on a stake as Number 556) on the southern side of the road, and a concrete stand that may have held an aboveground tank. An old latrine foundation is also within this area. There is no evidence of USTs (SF B-SLBA).

Former Store/Gas Station Area

The former store/gas station area is located 0.5 mile south of the intersection of Lancaster Boulevard and Scout Road, on the western side of Lancaster Boulevard. The area measures approximately 0.25 mile long by 0.25 mile wide. It contains 11 concrete foundations of various sizes and two septic systems (Photo BW-90) (SF B-SLBA).

Old automotive parts (e.g., engine hoses, carburetors, old tires, and oil cans) are scattered throughout the area, possibly indicating the existence of a Former Gas Station (AOC No. BW-LB/1). Foundations adjacent to the Former Gas Station may be the remains of a general merchandise store. During the 1992 VSI, an old merchandise store sign was found, along with numerous broken bottles and rusted cans. There was no evidence of USTs (SF B-SLBA).

A Dump (SWMU No. BW-LB/2) is located in the northernmost part of the area, approximately 400 feet west of Lancaster Boulevard. The Dump is a debris pile approximately 1 foot to 2 feet high, 20 feet to 30 feet wide, and 120 feet long, containing numerous rusted cans, including 1- and 5-gallon paint, solvent, and gasoline cans, oil filters, bottles, and juice/food cans (SF B-SLBA).

Former Shooting Range

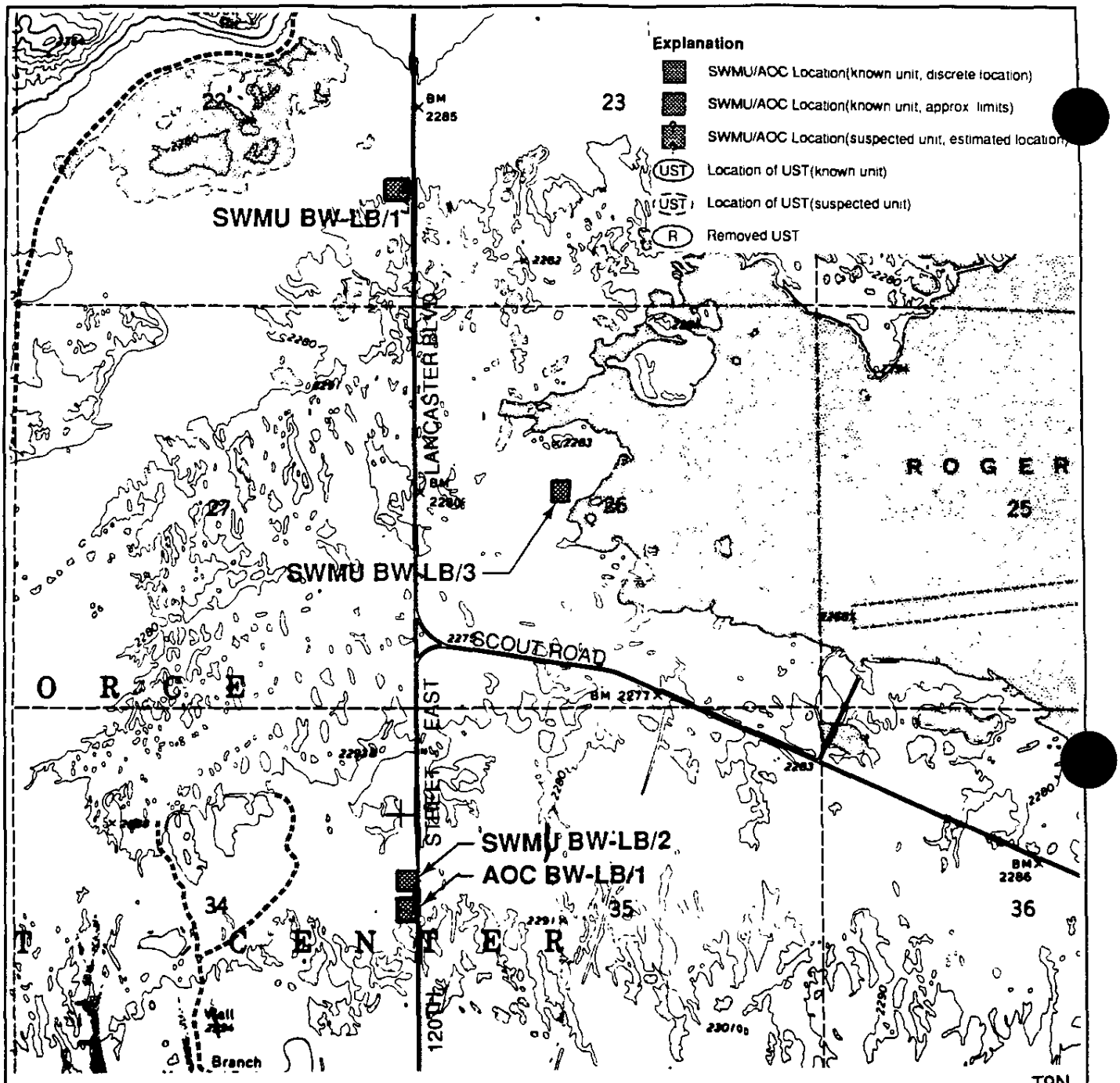
The Former Skeet Shooting Range (SWMU No. BW-LB/3) was used in the past for small-arms practice. It is approximately 0.5 mile east of Lancaster Boulevard at T9N, R10W in the northwest quarter of Section 26. It may be accessed by a dirt road that heads east from Lancaster Boulevard at a point approximately 2.2 miles south of the intersection of Lancaster Boulevard and Jones Road (the dirt road is approximately 0.25 mile north of the intersection of Lancaster Boulevard and Scout Road) (SF B-SLBA).

No longer in use, the Former Skeet Shooting Range appears to have been abandoned for many years, as evidenced by the overgrowth of vegetation. Several rows of salt bush remain within the area. The ground is covered with broken clay pigeons, and bird shot (some of which looks like lead, and some of which is rusted like steel) can be seen on the hardpan ground surface. A pipe foundation and wooden boards indicate a possible shooting tower (SF B-SLBA).

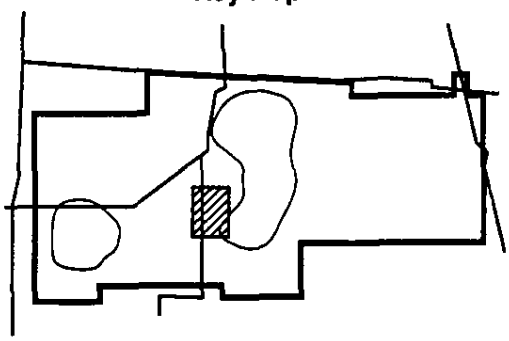
Asphalt Dump

An Asphalt Dump (AOC No. BW-LB/2) is located just southeast of the intersection of Avenue B and 120th Street, at T8N, R10W in the northwestern corner of Section 11. The dump consists of broken pieces of asphalt, apparently road-work debris.

The SWMUs and AOC located along the southern section of Lancaster Boulevard are shown in Figure 3-39 and described on the following pages. AOC No. BW-LB/2 is shown only on Plate 1.



Key Map



North

0 1/2 1 Mile

Scale

Source: Base map from U.S.G.S. Redman, CA Quadrangle, 1973.

The Earth Technology Corporation

Project No. 91-1006

Base-Wide Miscellaneous ESI/RFA

Southern Lancaster Boulevard Area

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Figure 3-39

SWMU No. BW-LB/1 Southern Lancaster Boulevard Tar Pit

INFORMATION SUMMARY: Site File B-SLBA; Photo BW-48

LOCATION: The Tar Pit is within the former mobile home/trailer park area. The area may be accessed by a dirt road which heads west from Lancaster Boulevard at a point approximately 1.1 miles south of the intersection of Jones Road (formerly Hospital Road) and Lancaster Boulevard. The Tar Pit is approximately 50 feet east of the second building foundation.

SIZE: The unit is approximately 30 feet by 30 feet. Its depth is unknown.

MATERIAL: The unit consists of an earthen area containing what appears to be roofing tar or asphalt on top of soil.

CONNECTIONS: None.

PURPOSE: The Tar Pit appears to have been used in the past for the disposal of wastes.

STARTUP: Unknown. **DEACTIVATED:** Unknown.

WASTES MANAGED: The waste in the Tar Pit has the appearance and texture of roofing tar or asphalt.

RELEASE CONTROLS: None, the unit is on unlined earth.

HISTORY OR EVIDENCE OF RELEASE: Since there is no containment, the unit is in direct contact with underlying soils.

VSI COMMENTS: The waste substance was viscous and on a level surface; it did not appear to be flowing.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high since the waste is in direct contact with soils in the area.

Air - The potential for release to the atmosphere is moderate since the waste may contain some volatile compounds.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases are not handled.

RECOMMENDATION: Further investigation. Sample (PRL 292).

SWMU No. BW-LB/2 Southern Lancaster Boulevard Dump

INFORMATION SUMMARY: Site File B-SLBA; Photos BW-88 and BW-89

LOCATION: The Dump is located within the former store/gas station area on the western side of Lancaster Boulevard, approximately 0.5 mile south of the intersection of Lancaster Boulevard and Scout Road. The Dump is located approximately 150 yards northwest of the Former Gas Station (AOC No. BW-LB/1).

SIZE: The unit consists of several piles, each approximately 1 foot to 2 feet high, 20 feet to 30 feet wide, and 50 feet to 150 feet long.

MATERIAL: The unit is constructed of native soils.

CONNECTIONS: None.

PURPOSE: The unit was used to dispose of trash, some of which was apparently domestic and some of which was related to gas station operations.

STARTUP: Unknown. **DEACTIVATED:** Unknown.

WASTES MANAGED: The unit contains numerous rusted oil cans, paint cans, paint thinner/solvent cans and oil filters, in addition to domestic trash (food and juice cans, bottles).

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: The history of release is unknown, but visual observations suggest a moderate potential for release.

VSI COMMENTS: Several waste piles are scattered in the area of the Dump. No staining of the ground was observed.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is moderate based on the items seen in the dump. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since no free liquids or staining were observed.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since the unit is aboveground.

RECOMMENDATION: Further investigation. Sample (PRL 293).

SWMU No. BW-LB/3 Southern Lancaster Boulevard Former Skeet Shooting Range

INFORMATION SUMMARY: Site File B-SLBA; Photos BW-52 and BW-53

LOCATION: The Former Skeet Shooting Range is approximately 0.5 mile east of Lancaster Boulevard at T9N, R10W in the northwestern quarter of Section 26. It may be accessed by a dirt road that heads east from Lancaster Boulevard at a point approximately 2.2 miles south of the intersection of Lancaster Boulevard and Jones Road (the dirt road is approximately 0.25 mile north of the intersection of Lancaster Boulevard and Scout Road).

SIZE: The unit covers an area of approximately 1 acre.

MATERIAL: The unit is constructed of native soils.

CONNECTIONS: None.

PURPOSE: The unit was formerly used as a shooting/skeet range for small arms. Clay pigeons and lead shot were scattered throughout the unit when the airborne targets were shot.

STARTUP: Unknown. **DEACTIVATED:** Unknown.

WASTES MANAGED: The unit managed lead shot from rounds fired at airborne targets. It is unknown if lead was periodically mined from soils in the area.

RELEASE CONTROLS: None.

HISTORY OR EVIDENCE OF RELEASE: Lead is in direct contact with the surrounding soils. It is not known if the lead is dissolved and released to groundwater.

VSI COMMENTS: The ground was covered with broken black clay pigeons. In areas where the ground is hard packed, bird shot (some looked like lead, some was rusted like steel) was found on the ground surface.

RELEASE POTENTIAL:

Soils/Groundwater - The past and current potential for release to soils and groundwater is high since lead is in direct contact with soils in the area.

Air - The potential for release to the atmosphere is low since wastes are not volatile.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: Further investigation. Sample (PRL 294).

AOC No. BW-LB/1 Southern Lancaster Boulevard Former Gas Station

INFORMATION SUMMARY: Site File B-SLBA; Photos BW-86 and BW-87

LOCATION: The Former Gas Station is located on the western side of Lancaster Boulevard, 0.5 mile south of the intersection of Lancaster Boulevard and Scout Road.

SIZE: The unit occupies an area measuring approximately 100 feet by 100 feet. It contains three concrete foundations of former buildings.

PROBABLE WASTES: Wastes managed by the unit are unknown; but probably included oil and fuels.

CONCERN: The concrete foundations are divided into bays. This, combined with the debris (old car parts, e.g., hoses, carburetors, oil cans, and an old tire) observed in the area, indicates the foundations may have been part of a gas station. No USTs or staining were evident during the VSI.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since past waste management practices are unknown and the use of the structures is uncertain. The current potential is low since the unit is no longer used.

Air - The potential for release to the atmosphere is low since the unit is no longer used.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were probably not handled.

RECOMMENDATION: Further investigation. Sample (PRL 293).

AOC No. BW-LB/2 Asphalt Dump

INFORMATION SUMMARY: Site File B-SLBA

LOCATION: The Asphalt Dump is located immediately southeast of the intersection of Avenue B and 120th Street, south of the base's southern gate. North of the southern gate, 120th street becomes Lancaster Boulevard.

SIZE: The Asphalt Dump measures approximately 130 feet by 400 feet.

PROBABLE WASTES: The Asphalt Dump has been used to dispose of large quantities of asphalt, presumably road construction waste.

CONCERN: The asphalt has been dumped onto bare soils with no containment measures taken.

RELEASE POTENTIAL:

Soil/Groundwater - The past and current potential for release to soils and groundwater is low since the asphalt is hardened.

Air - The potential for release to the atmosphere is low since the asphalt is hardened and no longer volatile.

Subsurface Gas - The potential for the generation of subsurface gas (methane) is low since wastes which might generate such gasses are not handled.

RECOMMENDATION: No further investigation. The asphalt is hardened and no longer volatile.

SOUTHWEST AREA

The southwestern portion of the base includes an area bounded approximately by Rosamond Boulevard on the north and the base boundaries on the west and south. It extends east of Rosamond Dry Lake. The area is generally flat, with some gently sloping terrain. It is currently uninhabited; however, there are documented homestead sites and abandoned water supply wells. The Piute Ponds (SWMU No. BW-SW/1), which are part of the Los Angeles County Sanitation District No. 14 (LACSD #14) sewer system, are also located in the area (EAFB-D-102).

The area is traversed in the north-south direction by Division Street (Shuttle Road), which has numerous small dirt roads intersecting it. The cities of Lancaster and Rosamond border the base in this area, and numerous dirt roads from these cities allow uncontrolled access to base property (except for daily boundary patrols by Edwards AFB personnel). As a result, there is a significant amount of unauthorized dumping on base property, especially in the extreme southwestern corner. During the June 1992 VSI, a number of the dirt roads were travelled in search of indications of hazardous waste disposal. The areas investigated are described below (SF B-WBA).

Piute Ponds

The Piute Ponds are located in the extreme southwestern corner of the base, at T8N, R12W, in the north half of Section 14 and the northwestern quarter of Section 13. The Piute Ponds are approximately 2,000 feet east of the intersection of Division Street and Avenue C. They can be accessed via Avenue C (SF B-WBA; EAFB-D-102).

The Piute Ponds are a series of ponds that occupy an area approximately 0.5 mile wide and 1.3 miles long. They are man-made and are used as excess effluent impoundments for the LACSD #14 Lancaster Water Reclamation Plant, which provides secondary treatment of sanitary wastewater and stormwater runoff to the Piute Ponds. The ponds support a substantial waterfowl population, and are used for duck hunting. For 30 days before, and during hunting season, the effluent discharged to the ponds is treated with chlorine to reduce the coliform bacteria count. During periods of heavy rain, the Piute Ponds overflow to Rosamond Dry Lake to the northeast (SF B-WBA; EAFB-D-102).

Abandoned Landfill

An Abandoned Landfill (SWMU No. BW-SW/2) is located about 0.25 mile north of the intersection of East Avenue E and North 10th Street East, at T8N, R12W in the southeastern corner of Section 23.

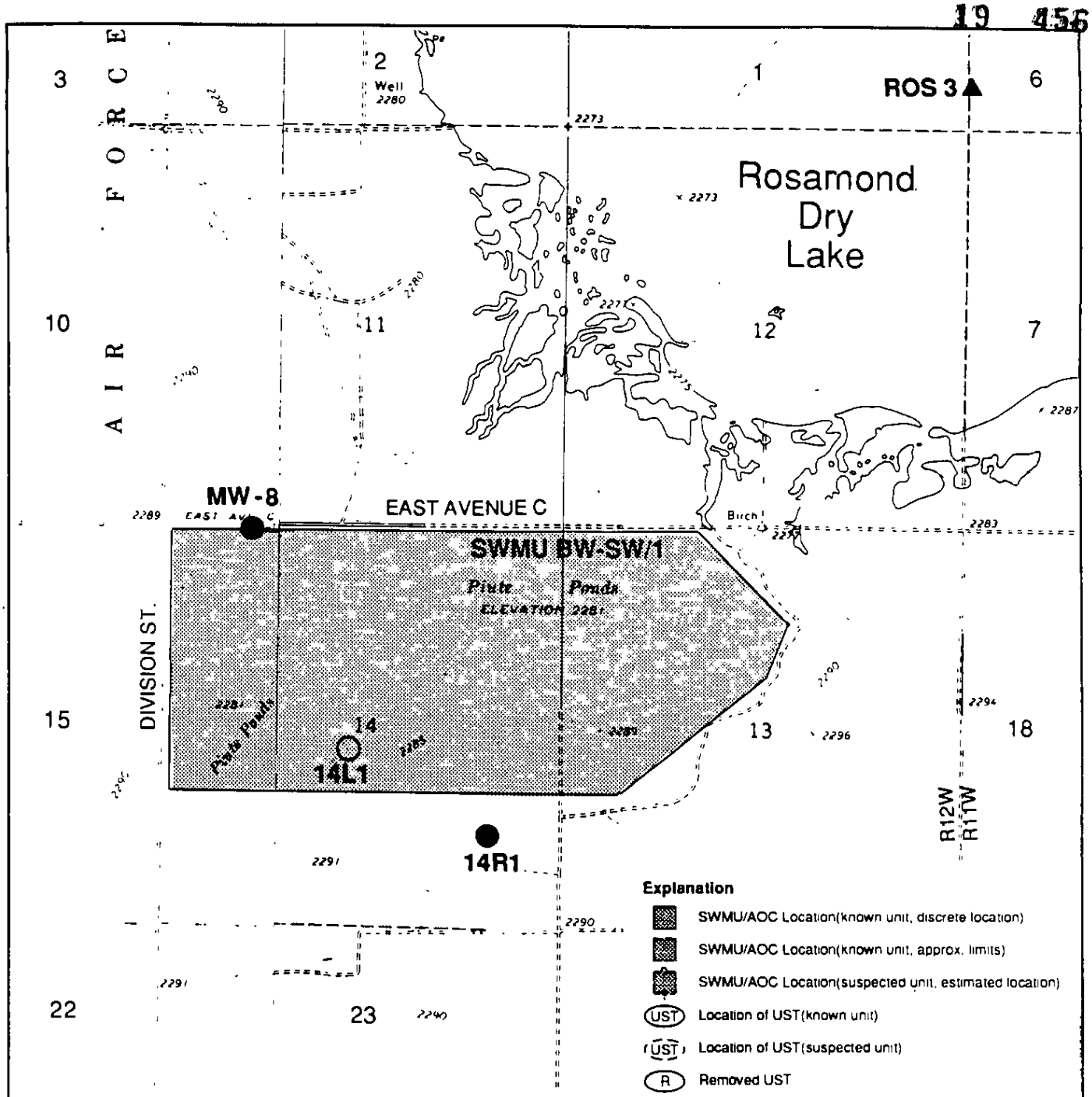
Sand Pit

A Sand Pit (AOC No. BW-SW/1) is located about 0.25 mile north of the intersection of East Avenue C and North 50th Street East, at T8N, R11W, in the southwestern corner of Section 10. The pit has previously been used to dump moderate quantities of waste oil.

Off-Road Areas

A number of small dirt roads off of Division Street were travelled during the June 1992 VSI. Numerous small debris piles were observed, consisting primarily of domestic waste, i.e., furniture, and broken bottles, etc. None of the piles showed evidence of hazardous waste; however, two piles each contained one 55-gallon drum that appeared to have been used for target practice (Photos BW-31 and BW-32). The debris piles may be the result of unauthorized dumping by people from the off-base areas. Two stripped automobiles were also observed (they were reportedly recent arrivals, and Edwards AFB personnel were in the process of having them removed). Since the waste appears to be primarily domestic, no SWMUs or AOCs were identified in these off-road areas (SF B-WBA).

The SWMUs and AOC in the southwest area are described on the following pages. SWMU No. BW-SW/1 is shown in Figure 3-40; SWMU No. BW-SW/2 and AOC No. BW-SW/1 are shown. Only on Plate 1, Sheet 1.



Source: Base map from U.S.G.S. Rosamond, CA Quadrangle, 1973.

The Earth Technology Corporation

Project No. 91-1006-99

Base-Wide Miscellaneous ESI/RFA

Southwest Area

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Figure 3-40

SWMU No. BW-SW/1 Southwest Area Piute Ponds

INFORMATION SUMMARY: Site File B-WBA; Photo BW-91; Documents EAFB-D-101 and EAFB-D-102

LOCATION: The Piute Ponds are located in the extreme southwestern corner of the base, at T8N, R12W, in the northern half of Section 14 and the northwestern quarter of Section 13. They are approximately 2,000 feet east of the intersection of Division Street and Avenue C. They can be accessed via Avenue C.

SIZE: The Piute Ponds are a series of impoundments that occupy an area approximately 0.5 mile wide and 1.3 miles long. There are approximately 320 surface acres of impoundments. Of these, there are approximately 200 surface acres of year-round impounded water.

MATERIAL: The units are earthen excavations surrounded by earthen dikes.

CONNECTIONS: The units receive effluent via a channel from the LACSD #14 Lancaster Water Reclamation Plant, which is located outside the western boundary of the base. During times of heavy precipitation, the units overflow to Rosamond Dry Lake to the northeast.

PURPOSE: The units are used as excess effluent impoundments for the LACSD #14 Lancaster Water Reclamation Plant, which treats sanitary wastewater and stormwater runoff. The ponds support a substantial waterfowl population, and are used for duck hunting. For 30 days before, and during hunting season, the effluent discharged to the ponds is treated with chlorine to reduce the coliform bacteria count.

STARTUP: 1961. **DEACTIVATED:** Currently active.

WASTES MANAGED: The effluent that flows to the Piute Ponds is secondarily treated and disinfected. Effluent limits from the LACSD Lancaster Water Reclamation Plant have been established for coliform bacteria, pH, soluble biochemical oxygen demand (BOD), methylene blue active substances (MBAS), BOD loading, and dissolved oxygen.

A composite sample of effluent is collected bimonthly for metals analysis. In six samples collected in 1991, the following maximum concentrations of metals were detected: 0.043 mg/l arsenic, 0.03 mg/l barium, 0.02 mg/l copper, 1.46 mg/l iron, 0.05 mg/l lithium, 0.06 mg/l manganese, 0.0001 mg/l mercury, 23.0 mg/l potassium, 0.001 mg/l selenium, 366 mg/l sodium and 0.10 mg/l zinc. All other metals were below detection limits ranging from 0.01 mg/l to 0.06 mg/l.

A composite sample of the effluent water is tested for priority pollutants semiannually. In a single sample collected in 1991, lindane was the only priority pollutant detected, at 0.02 μg/l.

No volatile organic compounds were detected above detection limits ranging from 0.3 μg/l to 0.5 μg/l.

RELEASE CONTROLS: None, the units are unlined. They periodically overflow to Rosamond Dry Lake.

HISTORY OR EVIDENCE OF RELEASE: Priority pollutants in effluent are analyzed semiannually. In a single sample collected in July 1991, lindane was detected at 0.02 μg/l, which compares with a regulatory level of 0.4 mg/l for the pesticide. All VOCs were below detection limits. All metals were well below STLC values.

In March 1987, LACSD installed a monitoring well (MW-8) near the Piute Ponds on the south side of Avenue C, east of Division Street. Depth to groundwater was approximately 35 feet. The well is sampled annually, but not for hazardous constituents.

In February 1989, base environmental personnel discovered that USGS Monitoring Well 14R1, southwest of the ponds, had been vandalized; the cover and hasp had been torn off and what appeared to be motor oil had been poured down the casing. The thickness of the oil was measured at 6 inches. A search of USGS well sampling logs indicated that the vandalism occurred sometime in 1984. The floating product (which represented only a few quarts) was bailed out in 1989 and the well cap and lock were replaced. A historic, 6-inch- diameter well casing (14L1) was also discovered by base environmental staff in 1989. The water level was measured at 12 feet below grade and total depth of the casing was measured at 50 feet below grade. The unlocked well could represent a direct conduit to the groundwater aquifer (EAFB-D-102).

VSI COMMENTS: Heavy aquatic vegetation surrounds the Piute Ponds. Numerous waterfowl were observed. Minor erosion of the dikes was evident.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is unknown since it is unknown if the units have handled hazardous wastes in the past. The current release potential is low since no hazardous concentrations of priority pollutants were detected in the discharge effluent.

Air - The potential for release to the atmosphere is low since volatile compounds would probably be released in water treatment prior to entering the units.

Subsurface Gas - The potential for generation of subsurface gas (methane) is moderate since the surrounding vegetation provides abundant organic material.

RECOMMENDATION: Further investigation. Sample (PRL 295).

SWMU No. BW-SW/2 Southwest Area Abandoned Landfill

INFORMATION SUMMARY: Site File B-WBA

LOCATION: The landfill is located approximately 0.25 mile north of the intersection of East Avenue E and North 10th Street East.

SIZE: The landfill measures approximately 400 feet square.

MATERIAL: The landfill cells were constructed using the cut-and-cover method. Natural soils were used for cover. It is unlikely the unit has a liner.

CONNECTIONS: None.

PURPOSE: The landfill was presumably used to dispose of waste materials.

STARTUP: Unknown **DEACTIVATED:** Unknown

WASTES MANAGED: The types of materials disposed of in the landfill are unknown. It is possible that hazardous wastes may have been disposed of in the unit.

RELEASE CONTROLS: The landfill is covered with natural soils.

HISTORY OR EVIDENCE OF RELEASE: Unknown.

VSI COMMENTS: None. Identified on 1967 and 1992 Aerial Photos.

RELEASE POTENTIAL:

Soil/Groundwater - The past and current potential for release to soils and groundwater is unknown since the types of wastes managed are unknown.

Air - The potential for release to the atmosphere is unknown; the unit is covered with soil rather than a clay cap.

Subsurface Gas - The potential for the generation of subsurface gas (methane) is unknown since the types of wastes disposed of are unknown.

RECOMMENDATION: Further investigation. Sample (PRL 339).

AOC No. BW-SW/1 Southwest Area Sand Pit

INFORMATION SUMMARY: Site File B-WBA

LOCATION: The Sand Pit is located approximately 0.25 mile north of the intersection of East Avenue C and North 50th Street East.

SIZE: The Sand Pit measures approximately 300 feet square. The area of contamination is about 64 square feet.

PROBABLE WASTES: The Sand Pit has been used to dispose of a moderate volume of waste oil.

CONCERN: The waste oil has been dumped onto bare, porous sand. During the VSI, heavy staining of the sand was noted.

RELEASE POTENTIAL:

Soil/Groundwater - The past and current potential for release to soils and groundwater is high since staining of bare sand is evident.

Air - The potential for release to the atmosphere is low since waste oil is not highly volatile.

Subsurface Gas - The potential for the generation of subsurface gas (methane) is low since waste oil does not degrade to a significant extent to methane gas.

RECOMMENDATION: Further investigation. Sample (PRL 340).

SPIN TEST FACILITIES

There are four spin test facilities at Edwards AFB. Two are within PIRA (Spin Test Facilities Nos. 1 and 4); one is located near the western border of the base (Spin Test Facility 2); and one is located north of the base (Spin Test Facility 3). Apparently this latter facility was used most frequently in the 1960s and 1970s. The purpose of the facilities is to allow aircraft to practice techniques for recovering from inadvertent spins. A number of aircraft have been lost in the spin test facilities (SF B-STF).

There are no SWMUs or AOCs associated with these areas.

TOXIC WASTE DISPOSAL SITE

Background

The Toxic Waste Disposal Site (SWMU No. BW-TW/1), also known as IRP Site 2, is located less than 1 mile west of the Main Base area. It is just east of Lancaster Boulevard, between Forbes Avenue and Mojave Boulevard.

Beginning in 1956, wastes including electroplating wastes, fuels, cyanide, nitric acid, and hydrogen peroxide were discharged from drums directly to trenches that were dug at the site. This practice continued until the 1960s when the area was closed.

In 1985, the site was remediated by the following actions (Earth Technology, 1991b):

- Construction of an upgradient swale to divert surface water runoff
- Removal of surface debris for disposal in the Main Base Active Sanitary Landfill (SWMU No. BW-LF/2)
- Filling of open trenches with soil
- Installation of one upgradient and two downgradient lysimeters.

Previous Investigations

Investigations at the Toxic Waste Disposal Site began in 1982 and ended in 1988. The sequence of investigations is as follows (Earth Technology, 1991b):

- Assessment of potential groundwater contamination (1981)

- o Phase II Confirmation (1982): one borehole (ES-1) was drilled and sampled
- o Phase II, Stage 2 Survey (1984): one lysimeter installed (L-2-ES1); no groundwater samples obtained because lysimeter dry
- o Phase IV-A Remedial Action Plan (1984): geophysical survey and soil sampling at 22 boreholes (TB-1 to TB-22)
- o Monitoring Well Resampling Program and Lysimeter Evaluation Report (1988): attempted sampling at three lysimeters (L-2-H1 to L-2-H3) installed in 1985; all three were dry.

Sampling Results Summary

Groundwater and soil sampling results for IRP Site 2 are summarized below (Earth Technology, 1991b):

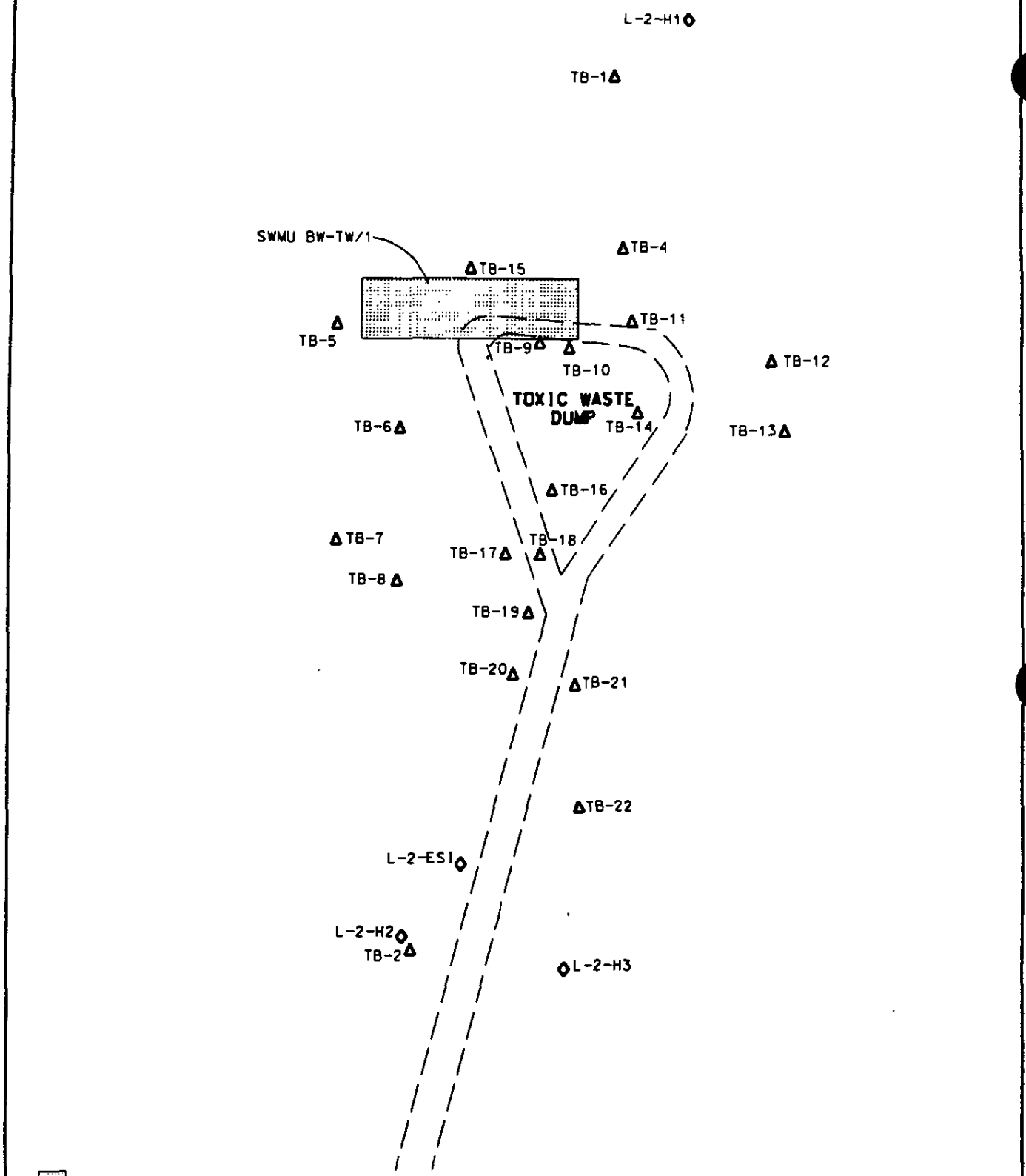
Groundwater Analyses

No groundwater samples were analyzed because none could be collected. Groundwater sampling was attempted in 1983 and 1987, but all four lysimeters were dry.

Soil Analyses

- o One borehole was drilled in February 1982; four samples were taken and analyzed for fuel hydrocarbons, nitrate, cyanide, tetraethyllead, chromium, and lead. The only contaminants detected were tetraethyllead at 2.25 mg/kg and chromium at 82 mg/kg
- o 22 boreholes were drilled in May 1984; 30 samples were taken and analyzed for total chromium, cyanide, and nitrates. Chromium and lead were detected in all samples above detection limits, at maximum concentrations of 76 mg/kg and 41 mg/kg, respectively. Seven samples from five boreholes were analyzed for hexavalent chromium; Cr^{+6} was not detected above a detection limit of 0.1 mg/kg. Nitrates were detected in 19 samples from 13 boreholes, at a maximum concentration of 93 mg/kg.

The Toxic Waste Disposal Site is shown in Figure 3-41 and described on the following page.



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Project no.: 91-1006

BASE WIDE MISCELLANEOUS ESI / RFA

Toxic Waste Disposal Site

9-93

Figure 3-41

EDWARDS\9110062\A0285MPB.A03

SWMU No. BW-TW/1 **Toxic Waste Disposal Site**

INFORMATION SUMMARY: Site File B-TWDS; Photo BW-58

LOCATION: The Toxic Waste Disposal Site (IRP Site 2) is located less than a mile west of the Main Base area. It is just east of Lancaster Boulevard, between Forbes Avenue and Mojave Boulevard.

SIZE: The boundaries of the IRP Site 2 are approximately 1,600 feet wide and 2,300 feet long; however, the area used for waste disposal is less than 400 feet square.

MATERIAL: When in use, the unit consisted of trenches excavated in native soils. Remediation efforts included the removal of all surface debris, filling the trenches with soils, and the construction of an upgradient swale to divert surface runoff.

CONNECTIONS: None.

PURPOSE: The unit was used for disposing wastes directly into trenches from barrels and drums.

STARTUP: 1956. **DEACTIVATED:** 1960s.

WASTES MANAGED: Wastes disposed in the unit included electroplating wastes, chromate, cyanide, nitric acid, hydrogen peroxide, tetraethyllead, various fuels, and rocket fuel filters.

RELEASE CONTROLS: None, the trenches were unlined.

HISTORY OR EVIDENCE OF RELEASE: Soil boreholes and lysimeters were installed to investigate the history of release; however, no groundwater samples were analyzed because none could be collected. Groundwater sampling was attempted in 1983 and 1987, but the lysimeters were dry.

One soil borehole was drilled in February 1982; four samples were collected and analyzed for fuel hydrocarbons, nitrate, cyanide, tetraethyllead, chromium, and lead. The only contaminants above detection limits were tetraethyllead at 2.25 mg/kg and chromium at 82 mg/kg.

Another 22 boreholes were drilled in May 1984; 30 samples were collected and analyzed for chromium (total and hexavalent), cyanide, and nitrates. Nitrates, chromium (total), and lead were detected above detection limits, at maximum concentrations of 93 mg/kg, 76 mg/kg, and 41 mg/kg, respectively.

VSI COMMENTS: Two lysimeters were located. The lysimeter labeled 2-3 was unlocked; the lysimeter labeled 2-2 was locked.

The unit is no longer fenced in. Reportedly, the fence was removed after remediation was completed. All "OFF LIMITS" signs have been removed. The swale which was constructed to divert surface runoff away from the site is still in place.

RELEASE POTENTIAL:

Soils/Groundwater - The past potential for release to soils and groundwater is high since elevated concentrations of nitrates, chromium, and lead were detected in soils. The current potential is low since the unit has been remediated and is no longer used for waste disposal.

Air - The potential for release to the atmosphere is low since no volatile wastes are on the ground surface.

Subsurface Gas - The potential for generation of subsurface gas (methane) is low since wastes which might generate such gases were not handled.

RECOMMENDATION: No further investigation. The U.S. Air Force is awaiting a No Further Response Action Planned (NFRAP) approval for Site 2.

UNDERGROUND STORAGE TANKS

Edwards AFB maintains a large inventory of USTs for the storage of various petroleum products that include motor and aviation fuels, heating oils, and liquid waste products. The USTs are managed by the Base Environmental Management Directorate (AFFTC/EM). To comply with federal, state, and local regulations, the base has been conducting a removal process for selected USTs located throughout the base.

Table 3-8 presents an inventory of all USTs identified in the Base-Wide Miscellaneous, Northwest Main Base, and North Base OUs, excluding Old North Base USTs listed in Table 3-3. Waste oil USTs have been identified as SWMUs in this document; all other USTs, except as otherwise noted, have been identified as AOCs. All inactive and/or abandoned USTs are further identified as PRLs for which sampling is recommended. Active tanks that have failed an integrity test; that show visual evidence of staining; or where soil gas results indicate the presence of volatile organic compounds (VOCs) in soil are also identified as PRLs for which sampling is recommended. Active USTs that have passed an integrity test are recommended for no further investigation (NFI). Active tanks that have not been integrity tested are recommended to be checked for unit integrity.

Removed tanks where no contamination was found were not assigned AOC or SWMU identifiers. Removed tanks where soil contamination was found are identified as sites requiring further investigation.

The USTs identified as SWMUs and AOCs are described under their respective facilities and shown on the map sheets indicated in Table 3-8.

TABLE 3-8. BASE-WIDE MISCELLANEOUS NORTHWEST MAIN BASE, AND NORTH BASE UNDERGROUND STORAGE TANK INVENTORY
Edwards Air Force Base, California
(Page 1 of 3)

	Facility/ Location	OU	UST#	SWMU/AOC	Capacity (gallons)	Contents	Status (active/inactive/ removed)	Map [plate(sheet)]	Installed	Comments
TANKS REMOVED										
1	512	7	S013	-	284	diesel	removed (1992)	3 (1)	1969/1977	Only diesel detected, at 15 mg/kg, 2 feet below tank; tank site declared clean by Kern County.
2	2110	8	M040	SWMU No. BW2110/4	450	waste oil	removed (1991)	2 (11)	1959	Site 297
3	2340	8	M100	AOC No. BW2340/3	100	waste oil	removed (1986)	2 (9)	1956	PRL 298
4	2450	8	M022	SWMU No. BW2450/3	2,000	waste oil	removed (1992)	2 (11)	1974	Site 299
5	3500	8	M057	SWMU No. BW3500/9	1000	waste oil	removed (1991)	2 (9)	1968	No contaminants detected at time of tank removal.
6	3503	8	M058	-	550	diesel	removed (1991)	2 (9)	1961	No contaminants detected at time of tank removal.
7	3510	8	M024	AOC No. BW3510/2	1,500	Mogas	removed (1992)	2 (9)	1955	Site 224
8	3510	8	M041	SWMU No. BW3510/7	1,000	waste oil	removed (1991)	2 (9)	1950s	Site 224
9	3510	8	M113	AOC No. BW3510/2	1,500	Mogas	removed (1992)	2 (9)	1955	Site 224
10	3512	8	M025	-	10,000	unleaded	removed (unknown)	2 (9)	1963	Excavation of area did not locate tank.
11	3512	8	M067	AOC No. BW3514/1	10,000	MOGAS	removed (1992)	2 (8)	1958	Site 225
12	3512	8	M068	AOC No. BW3514/1	10,000	MOGAS	removed (1992)	2 (8)	1958	Site 225
13	4305	10	N005	AOC No. N4305/1	4,000	diesel	removed (1992)	2 (1)	1946	Site 229
14	4389	10	N021	AOC No. N4389/2	10,000	JP-4	removed (1982)	2 (3)	1975	PRL 234
15	4401	10	N008	AOC No. N4401/1	4,000	diesel/fuel oil	removed (1992)	2 (1)	1944	Site 236
16	4401	10	N009	AOC No. N4400/1	3,000	diesel/sand	removed (1993)	2 (1)	1943/1944	PRL 235
17	4402	10	N010	AOC No. N4402/1	4,000	diesel	removed (1992)	2 (1)	1944	Site 238
18	4505	10	N012	-	6,000	diesel	removed (1992)	2 (1)	1967	No contaminants detected at time of tank removal.
19	4505	10	N001	AOC No. N4505/2	5,000	diesel	removed	2 (1)	1968	PRL 241
20	4505	10	N002	AOC No. N4505/1	3,000	diesel	removed	2 (1)	1944	PRL 241
21	4515	10	N022	AOC No. N4515/1	est. 300	acid/fuels	removed	2 (1)	pre-1975	PRL 244
22	4792	7	M031	AOC No. M4790/1	700	diesel	removed (1993)	1 (1)	'76/'77/'78	Low level contamination; remove soils
23	4970	8	M103	AOC No. BW4970/1	550	diesel	removed (1993)	2 (4)	1964	PRL 306
24	5500	7	M077	AOC No. BW5500/1	6,000	diesel/fuel oil	Abandoned in place (1992)	2 (8)	1954	PRL 258
25	5500	7	M078	AOC No. BW5500/3	280	gasoline	removed (1988)	2 (8)	1954	PRL 258
26	5506	7	M037	AOC No. BW5500/4	3,000	diesel	removed (1993)	2 (7)	1977	PRL 258
27	5779	7	M053	-	500	heating oil	removed (1992)	2 (13)	1982	No contaminants detected at time of tank removal.
28	5780	7	M039	AOC No. BW5780/1	550	heating oil	removed (1991)	2 (13)	1961	Site 260

TABLE 3-8. BASE-WIDE MISCELLANEOUS NORTHWEST MAIN BASE AND NORTH BASE UNDERGROUND STORAGE TANK INVENTORY
Edwards Air Force Base, California
(Page 2 of 3)

	Facility/ Location	OU	UST#	SWMU/AOC	Capacity (gallons)	Contents	Status (active/inactive/ removed)	Map [plate(sheet)]	Installed	Comments
29	8020	7	P066	AOC No. BW8020/1	280	diesel fuel	removed (1993)	3 (2)	1960s	No contaminants detected at time of tank removal. PRL 262
30	8025	7	P067	AOC No. BW8025/1	280	diesel fuel	removed (1993)	3 (2)	1960s	No contaminants detected at time of tank removal. PRL 263
31	8030	7	P072	AOC No. BW8030/1	320	Avgas	removed (1993)	3 (4)	1950s	No contaminants detected at time of tank removal. PRL 264
32	8035	7	P071	AOC No. BW8035/1	265	Avgas	removed (1993)	3 (5)	1940s	No contaminants detected at time of tank removal. PRL 265
TANKS IN PLACE										
1	533	7	S034	-	-	-	inactive	3 (1)	-	-
2	533	7	S037	AOC No. BW-RS/4	-	-	inactive	3 (1)	-	PRL 291
3	540	7	S035	AOC No. BW-RS/6	-	-	inactive	3 (1)	-	PRL 291
4	545	7	S036	AOC No. BW-RS/5	-	-	inactive	3 (1)	-	PRL 291
5	2110	8	M048	-	6,000	diesel	active	2 (11)	1983	Double-walled tank provides secondary containment.
6	2110	8	M049	-	10,000	Mogas/unleaded	active	2 (11)	1983	Double-walled tank provides secondary containment.
7	2110	8	M050	-	10,000	unleaded	active	2 (11)	1983	Double-walled tank provides secondary containment.
8	2110	8	M051	-	10,000	unleaded	active	2 (11)	1983	Double-walled tank provides secondary containment.
9	2110	8	M052	AOC No. BW2110/3	10,000	unleaded	active	2 (11)	1960	-
10	2110	8	M079	AOC No. BW2110/4	10,000	sand	inactive	2 (11)	1960	Site 297
11	2110	8	M088	AOC No. BW2110/4	10,000	sand	inactive	2 (11)	1960	Site 297
12	2340	8	M018	AOC No. BW2340/1	10,000	unleaded	active	2 (9)	1964/1956	PRL 298
13	2340	8	M019	AOC No. BW2340/1	10,000	unleaded	active	2 (9)	1964/1956	PRL 298
14	2340	8	M020	AOC No. BW2340/1	10,000	Mogas/unleaded	active	2 (9)	1964/1971	PRL 298
15	2340	8	M021	AOC No. BW2340/2	8K/10K	diesel	active	2 (9)	1964	PRL 298; tank failed leak integrity test.
16	4315	10	N006	AOC No. N4315/2	1,500	diesel	to be removed	2 (1)	1974	Continue routine integrity tests.
17	4315	10	N007	AOC No. N4315/1	3,000	Avgas/unleaded	to be removed	2 (1)	1969/1974	PRL 230
18	4390	10	N003	AOC No. N-UST/9	1,000	diesel	to be removed	2 (1)	1947	PRL 254; also listed in Table 3-3.
19	4391	10	N004	AOC No. N-UST/10	1,000	diesel	to be removed	2 (1)	1947	PRL 254; also listed in Table 3-3.
20	4511	10	N013	SWMU No. N4511/5	4,000	JP-8	inactive	2 (1)	1988	-
21	4959	8	M124	SWMU No. BW4959/1	15,000	aniline/TCE	inactive	2 (2)	1954	Check unit integrity. PRL 25.
22	5780	7	M039	AOC No. BW5780/1	550	heating oil/diesel	removed (1991)	2 (13)	1961	Site 260
23	8040	7	P045	AOC No. BW8040/1	275	heating oil #1	active	3 (5)	-	Check unit integrity.

TABLE 3-8. BASE-WIDE MISCELLANEOUS NORTHWEST MAIN BASE, AND NORTH BASE UNDERGROUND STORAGE TANK INVENTORY
Edwards Air Force Base, California
(Page 3 of 3)

	Facility/ Location	OU	UST#	SWMU/AOC	Capacity (gallons)	Contents	Status (active/inactive/ removed)	Map [plate(sheet)]	Installed	Comments
24	9505	7	P032	AOC No. BW9506/1	570	diesel	active	2 (14)	1950s	Check unit integrity.
25	9505	7	P044	AOC No. BW9506/1	1,000	unleaded	active	2 (14)	1950s	Check unit integrity.
26	Construction Staging Area	7	P049	AOC No. BW-CSA/3	5,100	unknown	inactive	2 (14)	1950s	PRL 271
27	Contractors Hill	7	M125	AOC No. BW-CH/2	500	unknown	inactive	2 (4)	-	PRL 303
28	East Camp	7	P047	AOC No. BW-EC/1	-	fuel	-	3 (2)	1940s	PRL 268
29	Mojave Corp	7	P048	AOC No. BW-MC/2	-	fuel	-	3 (3)	1940s	PRL 272
30	Target	7	P046	AOC No. BW-EC/2	100	diesel	-	3 (3)	1943	PRL 269

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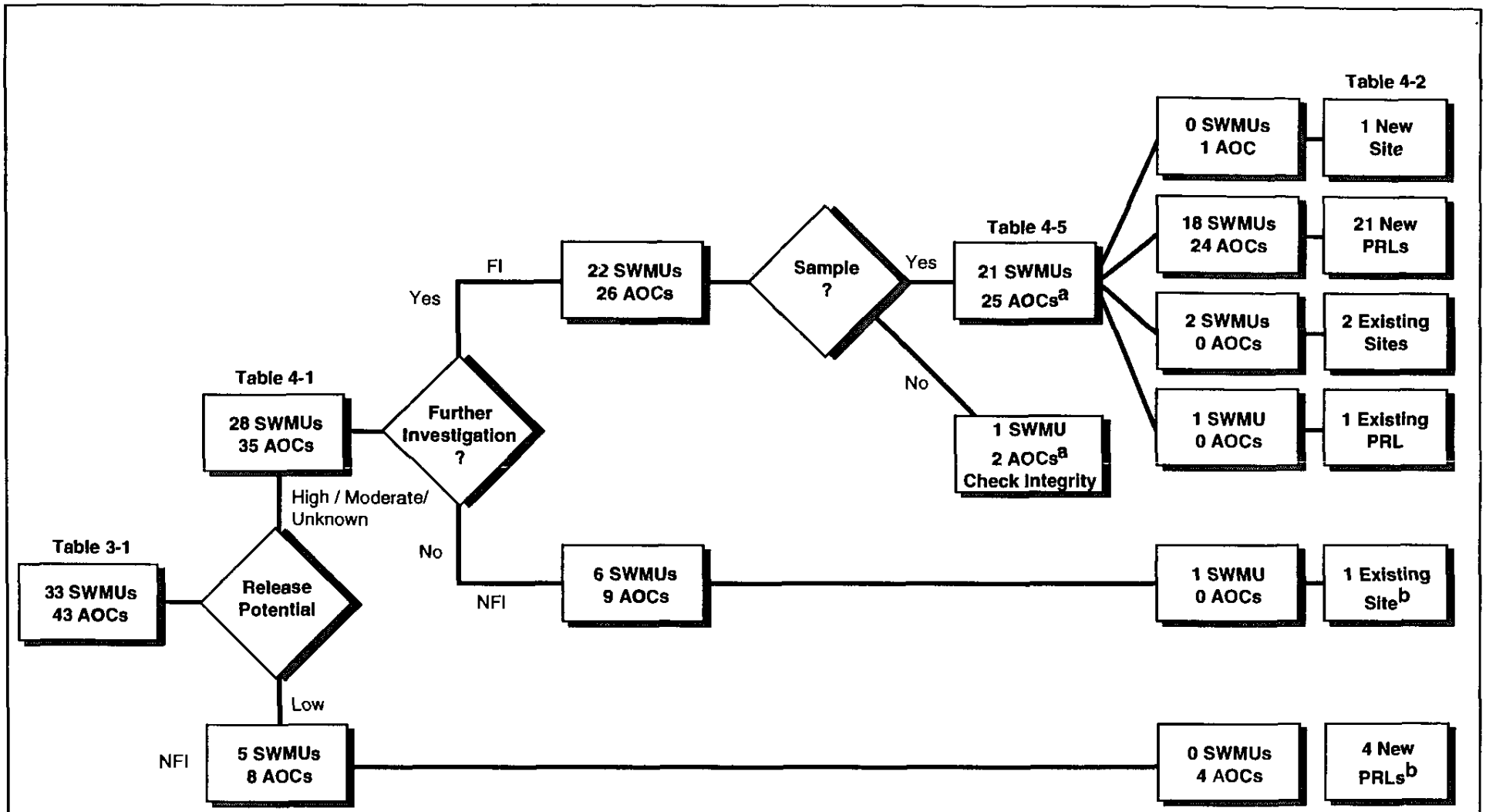
4.0 SUMMARY AND RECOMMENDATIONS

A total of 117 SWMUs and 112 AOCs were originally identified in Operable Unit No. 7, the Base-Wide Miscellaneous Operable Unit, as summarized in Table 3-1. Following the 1993 reorganization of Edwards AFB into 10 operable units, 33 SWMUs and 43 AOCs remained in Operable Unit No. 7, 46 SWMUs and 22 AOCs were reassigned to Operable Unit No. 8; and 38 SWMUs and 47 AOCs were reassigned to Operable Unit No. 10. Based on release potential, each SWMU and AOC was evaluated regarding the need for further investigation. Figures 4-1 to 4-3 present flow diagrams summarizing the decision-making process for OUs 7, 8, and 10, respectively.

No further investigation (NFI) is recommended for the 33 SWMUs (five in OU 7; 18 in OU 8; 10 in OU 10) and 14 AOCs (eight in OU 7; one in OU 8; five in OU 10) with an assessed low potential for release to soil and/or groundwater. The majority of these units have good release controls, are in good condition, and have no past history of release. Two areas of fallen asbestos shingles (AOC Nos. N4305/2 and N4316/1) were given the NFI recommendation, with a comment that the shingles should be removed and disposed of properly. Four USTs (AOC Nos. BW8020/1, BW8025/1, BW8030/1, and BW8035/1) in OU 7 and one UST (AOC No. N4515/1) in OU 10 were originally assessed as having unknown release potentials and assigned PRL numbers 262 to 265, and 244, respectively. Subsequently, these USTs were removed. No contaminants were detected in soil samples collected at the time of tank removal. Thus, these units were reassessed as having low release potentials and given the NFI recommendation.

General recommendations for the 84 SWMUs (28 in OU 7; 28 in OU 8; 28 in OU 10) and 98 AOCs (35 in OU 7; 21 in OU 8; 42 in OU 10) that were assessed to have a moderate, high, or unknown potential for release to soil and/or groundwater are presented in Table 4-1. For these, one of two recommendations is given: No Further Investigation (NFI) or Further Investigation (FI).

The NFI recommendation was given for a total of 18 SWMUs (six in OU 7; six in OU 8; six in OU 10) and 18 AOCs (nine in OU 7; three in OU 8; six in OU 10), of which five SWMUs are satellite or 90-day accumulation points (SWMU Nos. BW2110/3, BW2450/7, BW3500/3, N4389/1 and BW-CH/1). In general, the Accumulation Points are outdoor storage yards where 55-gallon waste drums are stored on pallets on pavement. The units were assessed as having a moderate release potential because no berm was provided; however the units all have recent startup dates (within the past 5 years), and no staining was observed. Due to the lack of evidence for actual release, and the short period of operation, a recommendation for NFI was given, with a comment that secondary containment (i.e. berming with a concrete lip) should be provided. Among the other SWMUs and AOCs given the NFI recommendation were a former battery storage area (SWMU No. BW3510/9), which was operational for only a few years beginning in 1987; a sludge disposal area (AOC No. BW3510/1) where the sludge from an oil/water separator was discharged once, in early 1991; a battery and drum storage area (SWMU No. BW9511/3) where only small amounts of waste are managed; and a painters' compound (AOC No. BW-CH/1), which has been in use



[a] One AOC is recommended for both sampling and integrity test

[b] NFI is recommended for Site 34, and PRLs 262 to 265

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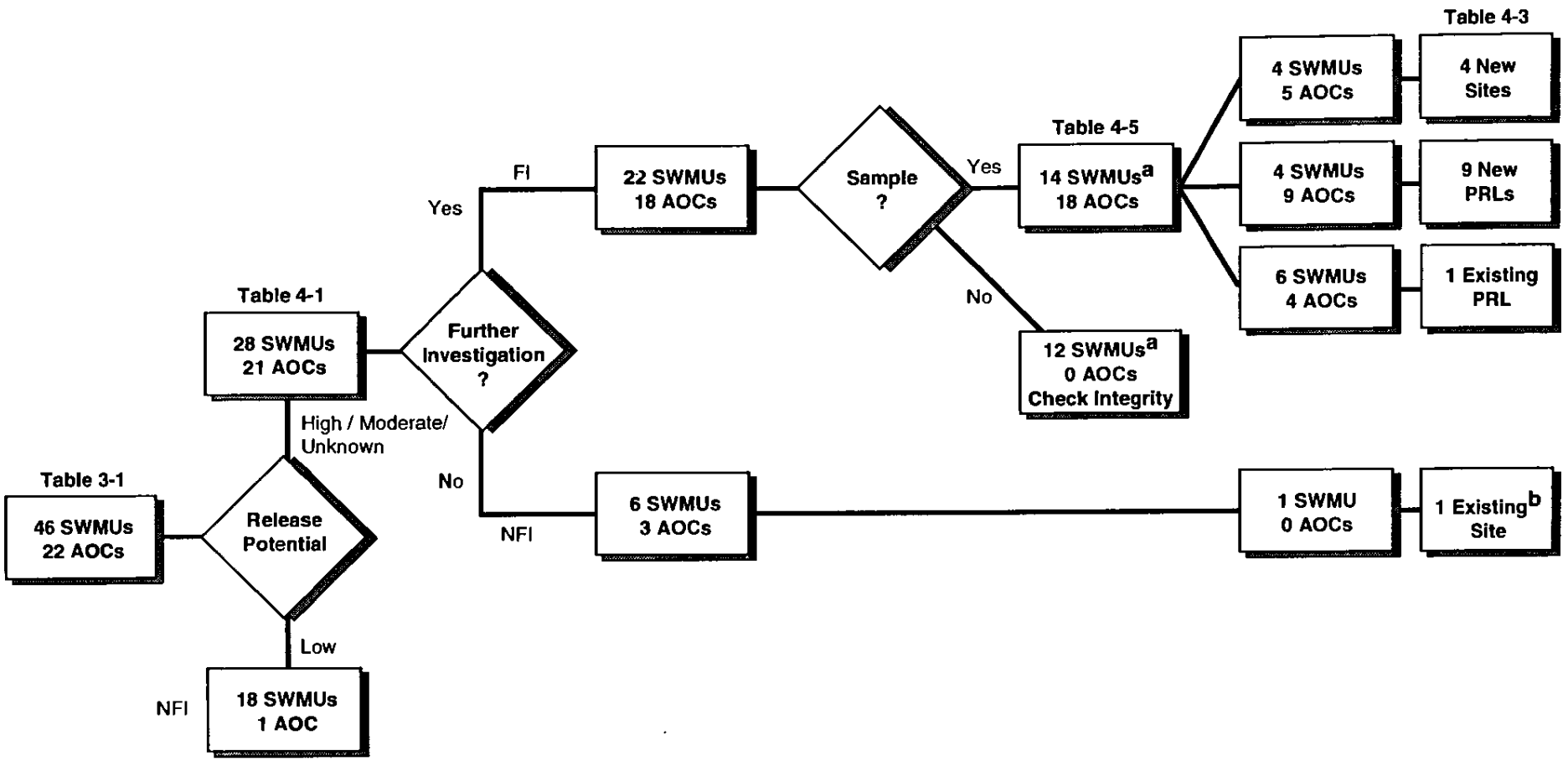
Project No. 91-1006-21

BWM ESI / RFA

Decision Process for Making Recommendations for SWMUs / AOCs in Base-wide Miscellaneous OU (OU 7)

9-93

Figure 4-1



[a] Four SWMUs are recommended for both sampling and integrity checks

[b] NFI is recommended for Site 2

The Earth Technology Corporation

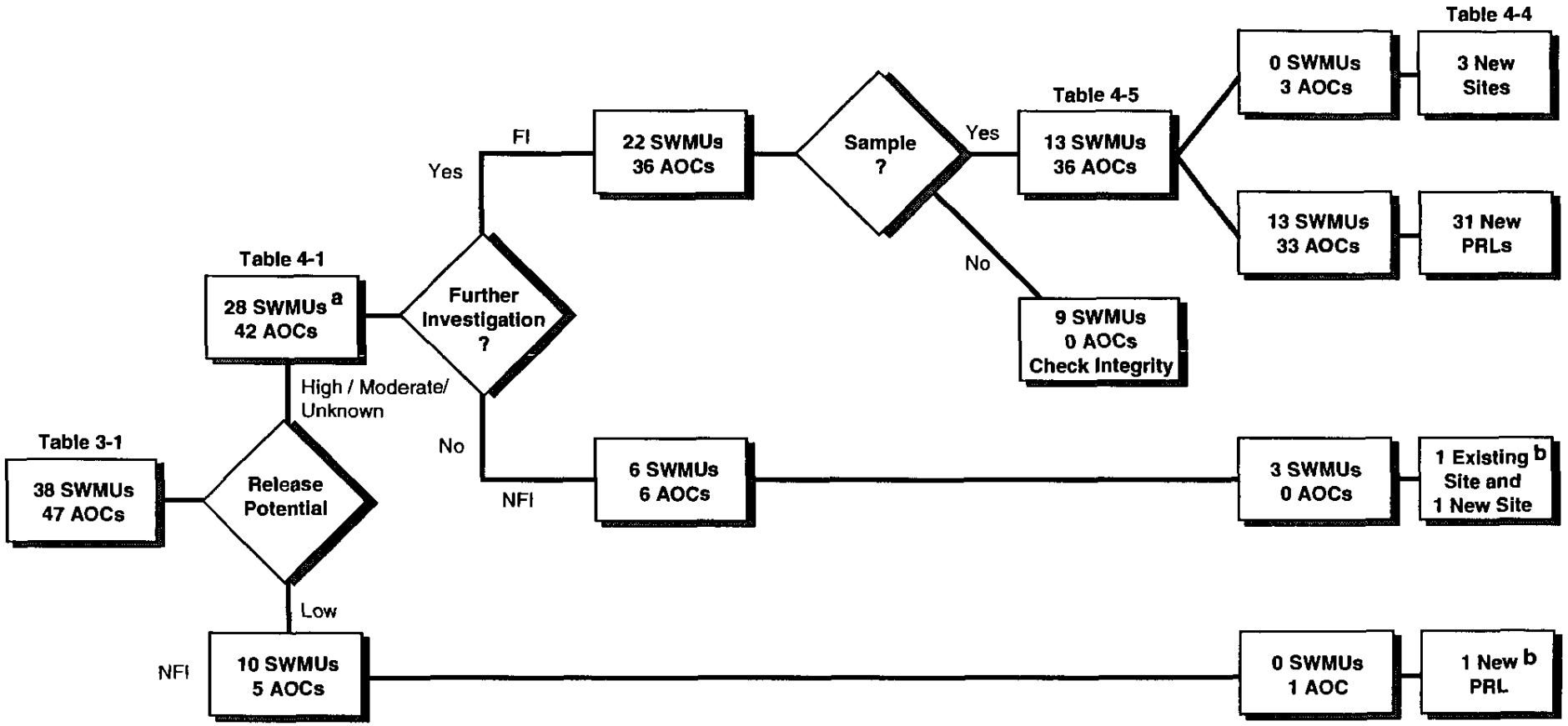
Project No. 91-1006-21

BWM ESI / RFA

Decision Process for Making Recommendations for SWMUs / AOCs in Northwest Main Base OU (OU 8)

9-93

Figure 4-2



The Earth Technology Corporation	Project No. 91-1006-21
	BWM ESI / RFA

Decision Process for Making Recommendations for SWMUs / AOCs in North Base OU (OU 10)

9-93

Figure 4-3

[a] One SWMU was included in this total based on a moderate potential for release to the atmosphere.

[b] NFI is recommended for Sites 1 and 273, and PRL 244.

TABLE 4-1. GENERAL RECOMMENDATIONS FOR SWMUS/AOCS HAVING A MODERATE, HIGH, OR UNKNOWN RELEASE POTENTIAL

(Page 1 of 8)

Facility	SWMUs & AOCs		Operable Unit[B]	Plate No./ Sheet No. (BCP)[A]	Potential Contaminants	Rec.	Comments
Building 210	SWMU No. BW210/1	Trap/Skeet Range (H)	7	1/1(-)	MET	FI	Sample; PRL 296
Building 227	SWMU No. BW227/1	Small Arms Firing Range (H)	7	1/1(-)	MET	FI	Sample; PRL 296
Building 2110	SWMU No. BW2110/2	Grease Traps (U)	8	2/11(4c)	PPA	FI	Check unit integrity
	SWMU No. BW2110/3	Accumulation Point (M)	8	2/11(4c)	PPA	NFI	Provide secondary containment
	SWMU No. BW2110/4	Removed Waste Oil UST (H)	8	2/11(4c)	PPA,COS	FI	Sample; Site 297
	SWMU No. BW2110/5	Wash Rack/Grease Trap (U)	8	2/11(4c)	PPA	FI	Check unit integrity
	AOC No. BW2110/1	Exterior Lube Bay Drain (M)	8	2/11(4c)	PPA	FI	Sample; Site 297
	AOC No. BW2110/2	Storage Area Drain (M)	8	2/11(4c)	PPA	FI	Sample; Site 297
	AOC No. BW2110/4	Inactive USTs (U)	8	2/11(4c)	PPA	FI	Sample; Site 297
Building 2340	AOC No. BW2340/1	Active USTs (H)	8	2/9(4a)	PPA	FI	Sample; PRL 298
	AOC No. BW2340/2	Inactive Diesel UST (H)	8	2/9(4a)	PPA	FI	Sample; PRL 298
	AOC No. BW2340/3	Removed Waste Oil UST (U)	8	2/9(4a)	PPA	FI	Sample; PRL 298
Building 2450	SWMU No. BW2450/2	Waste Oil Disposal Sink (H)	8	2/11(4c)	PPA	FI	Sample; Site 299
	SWMU No. BW2450/3	Removed Waste Oil UST (H)	8	2/11(4c)	PPA	FI	Sample; Site 299
	SWMU No. BW2450/4	Oil/Water Separator (U)	8	2/11(4c)	PPA	FI	Check unit integrity
	SWMU No. BW2450/7	Accumulation Point (M)	8	2/11(4c)	PPA	NFI	Provide secondary containment; no staining noted
Building 3500	SWMU No. BW3500/1	Common Yard (H)	8	2/9(4a)	PPA,OOC,PCBs,UKN	FI	Sample; PRL 300
	SWMU No. BW3500/3	Heavy Equipment Shop Satellite Accumulation Point (M)	8	2/9(4a)	PPA	NFI	Startup late 1980s; no staining; provide secondary containment
	SWMU No. BW3500/5	Paint Shop Accumulation Point (M)	8	2/9(4a)	OOC,MET	FI	Sample; PRL 301
	SWMU No. BW3500/6	Oil/Water Separator (U)	8	2/9(4a)	PPA	FI	Check unit integrity
	AOC No. BW3500/1	Painted Desert (H)	8	2/9(4a)	OOC,MET	FI	Sample; PRL 300
Building 3510	SWMU No. BW3510/1	Hydraulic Lift Pits (U)	8	2/9(4a)	PPA	FI	Check unit integrity
	SWMU No. BW3510/5	Steam Cleaning Oil/Water Separator (U)	8	2/9(4a)	PPA	FI	Check unit integrity
	SWMU No. BW3510/6	Wash Rack Oil/Water Separator (U)	8	2/9(4a)	PPA	FI	Check unit integrity
	SWMU No. BW3510/7	Removed Waste Oil Tank (H)	8	2/9(4a)	PPA,COS	FI	Sample; Site 224
	SWMU No. BW3510/9	Former Battery Storage Area (M)	8	2/9(4a)	MET,IAC	NFI	Unit received limited use; startup 1987
	SWMU No. BW3510/10	Refueling Vehicle Sump (U)	8	2/9(4a)	PPA	FI	Check unit integrity
	AOC No. BW3510/1	Sludge Disposal Area (M)	8	2/9(4a)	PPA	NFI	Unit received a small, one-time disposal
	AOC No. BW3510/2	Former Gasoline Station (M)	8	2/9(4a)	PPA	FI	Sample; Site 224
Building 3514	AOC No. BW3514/1	Former Gasoline Station (H)	8	2/9(4a)	PPA	FI	Sample; Site 225

A - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)

B - Some units originally in OU 7 were reassigned to OU 8 or OU 10

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TABLE 4-1. GENERAL RECOMMENDATIONS FOR SWMUS/AOCS HAVING A MODERATE, HIGH, OR UNKNOWN RELEASE POTENTIAL

(Page 2 of 8)

Facility	SWMUs & AOCs		Operable Unit[B]	Plate No./ Sheet No. (BCP)[A]	Potential Contaminants	Rec.	Comments
Building 3735	AOC No. BW3735/1	Supply Yard (M)	8	2/10(4b)	PPA, UKN	FI	Sample; PRL 226
	AOC No. BW3735/2	Exterior Drains (U)	8	2/10(4b)	PPA	NFI	Check sewer line integrity
Building 3739	AOC No. BW3739/1	Concrete Pad (M)	8	2/10(4b)	PPA	FI	Sample; PRL 226
Building 3900	AOC No. BW3900/1	Former Substation (U)	8	2/10(4b)	PCBs	FI	Sample; PRL 227
Building 4301	SWMU No. N4301/1	Evaporation Pond (M)	10	2/1(1d)	PPA,OOC	FI	Sample; PRL 228
Building 4305	SWMU No. N4305/1	Storm Drain System (U)	10	2/1(1d)	PPA,OOC	FI	Check unit integrity
	SWMU No. N4305/2	Sump Pit (U)	10	2/1(1d)	PPA,OOC	FI	Check unit integrity
	SWMU No. N4305/3	Former Drainage System (U)	10	2/1(1d)	PPA,OOC	NFI	The unit is no longer extant
	AOC No. N4305/1	Removed UST (H)	10	2/1(1d)	PPA	FI	Sample; Site 229
Building 4315	AOC No. N4315/2	Inactive UST (U)	10	2/1(1d)	PPA,OOC	FI	Sample; PRL 230
Building 4317	SWMU No. N4317/1	Battery Waste Area (H)	10	2/1(1d)	MET,IAC	FI	Sample; PRL 231
Building 4318	AOC No. N4318/1	Former Motor Pool (U)	10	2/1(1d)	PPA, COS	FI	Sample; PRL 230
Building 4331	SWMU No. N4331/1	Imhoff Tank (U)	10	2/1(1d)	PPA,UKN	FI	Check unit integrity
	SWMU No. N4331/2	Evaporation Pond (M)	10	2/1(1d)	PPA,UKN	FI	Sample; PRL 232
	SWMU No. N4331/3	Sludge Drying Beds (M)	10	2/1(1d)	PPA,UKN	FI	Sample; PRL 233
	SWMU No. N4331/4	Sewer Lines (U)	10	2/1(1d)	PPA,UKN	FI	Check unit integrity
Building 4389	SWMU No. N4389/1	Accumulation Point (M)	10	2/3(2b)	PPA	NFI	Provide secondary containment
	AOC No. N4389/1	Aboveground Fuel Tanks (M)	10	2/3(2b)	PPA	FI	Sample; PRL 234
	AOC No. N4389/2	Removed Underground Fuel Tank (U)	10	2/3(2b)	PPA	FI	Sample; PRL 234
	AOC No. N4389/3	Engine Test Cell (H)	10	2/3(2b)	PPA	FI	Sample; PRL 234
Building 4400	AOC No. N4400/1	Removed UST (M)	10	2/1(1d)	PPA	FI	Sample; PRL 235
Building 4401	SWMU No. N4401/1	Floor Drain (U)	10	2/1(1d)	PPA,COS	FI	Check unit integrity
	SWMU No. N4401/2	Satellite Accumulation Point (U)	10	2/1(1d)	UKN	FI	Obtain further information; check unit integrity
	AOC No. N4401/1	Removed UST (H)	10	2/1(1d)	PPA	FI	Sample; Site 236
Building 4402	SWMU No. N4402/1	Dark Room Sinks (U)	10	2/1(1d)	MET,IAC	FI	Check unit integrity
	SWMU No. N4402/2	Dark Room Floor Vault (M)	10	2/1(1d)	MET,IAC	FI	Sample; PRL 237
	SWMU No. N4402/3	Floor Drain (U)	10	2/1(1d)	PPA,COS	FI	Check unit integrity
	AOC No. N4402/1	Removed UST (H)	10	2/1(1d)	PPA	FI	Sample; Site 238

[A] - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)

[B] - Some units originally in OU 7 were reassigned to OU 8 or OU 10

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TABLE 4-1. GENERAL RECOMMENDATIONS FOR SWMUS/AOCS HAVING A MODERATE, HIGH, OR UNKNOWN RELEASE POTENTIAL

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Facility	SWMUs & AOCs		Operable Unit[B]	Plate No./ Sheet No. (BCP)[A]	Potential Contaminants	Rec.	Comments
Building 4410	SWMU No. N4410/1	Drainage System (M)	10	2/1(1d)	UKN	FI	Sample; PRL 239
	SWMU No. N4410/2	Accumulation Point (M)	10	2/1(1d)	UKN	FI	Sample; PRL 239
Building 4505	SWMU No. N4505/1	Dark Room Sink (U)	10	2/1(1d)	MET,IAC	NFI	*Unit is no longer extant*
	SWMU No. N4505/3	Floor Drain (U)	10	2/1(1d)	PPA,COS	FI	Check unit integrity
	SWMU No. N4505/5	Former Sump (U)	10	2/1(1d)	MET,IAC	FI	Sample; PRL 240
	SWMU No. N4505/6	Former Leach Field (U)	10	2/1(1d)	UKN	FI	Sample; PRL 240
	AOC No. N4505/1	Removed Hangar UST (H)	10	2/1(1d)	PPA	FI	Sample; PRL 241
	AOC No. N4505/2	Removed NW Wing UST (H)	10	2/1(1d)	PPA	FI	Sample; PRL 241
	AOC No. N4505/3	Air Compressor and Coolant Radiator (M)	10	2/1(1d)	PPA	FI	Sample; PRL 240
	AOC No. N4505/4	Former Leaking Transformer Unit (M)	10	2/1(1d)	PCBs	FI	Sample; PRL 242
Building 4511	AOC No. N4511/1	Tank Farm (U)	10	2/1(1d)	PPA	FI	Sample; PRL 243
Old North Base	AOC No. N-ON/1	Former Special Fuels Storage (U)	10	2/1(1d)	PPA,UKN	NFI	Unit operational for only 5 years
	AOC No. N-ON/2	Former Motor Repair Shop (U)	10	2/1(1d)	PPA,COS	FI	Sample; PRL 245
	AOC No. N-ON/3	Former Utility Shop 1 (U)	10	2/1(1d)	PPA,COS,OOC	NFI	Unit operational for only 5 years
	AOC No. N-ON/4	Former Utility Shop 2 (U)	10	2/1(1d)	PPA,COS,OOC	FI	Sample; PRL 246
	AOC No. N-ON/5	Former Inflammable Storage Shed (U)	10	2/1(1d)	PPA,OOC,IAC	FI	Sample; PRL 247
	AOC No. N-ON/6	Former Fire Station (U)	10	2/1(1d)	PPA,COS	FI	Sample; PRL 248
	AOC No. N-ON/7	Potential Former Garage (M)	10	2/1(1d)	PPA	FI	Sample; PRL 245
	AOC No. N-ON/8	Equipment Burial Pit (U)	10	2/1(1d)	PPA,UKN	NFI	Unit operational for less than 5 years

[A] - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)

[B] - Some units originally in OU 7 were reassigned to OU 8 or OU 10

TABLE 4-1. GENERAL RECOMMENDATIONS FOR SWMUS/AOCS HAVING A MODERATE, HIGH, OR UNKNOWN RELEASE POTENTIAL

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Facility	SWMUs & AOCs		Operable Unit[B]	Plate No./ Sheet No. (BCP)[A]	Potential Contaminants	Rec.	Comments
Old North Base USTs	AOC No. N-UST/1	Former Gasoline Station UST (U)	10	2/1(1d)	PPA	FI	Conduct geophysical survey; sample; PRL 249
	AOC No. N-UST/2	Former Aircraft Fuel Storage UST (U)	10	2/1(1d)	PPA	FI	Sample; PRL 250
	AOC No. N-UST/3	Former Mess Hall Inactive UST (U)	10	2/1(1d)	PPA	FI	Conduct geophysical survey; sample; PRL 251
	AOC No. N-UST/4	Former Lavatory Inactive UST1 (U)	10	2/1(1d)	PPA	FI	Sample; PRL 252
	AOC No. N-UST/5	Former Lavatory Inactive UST2 (U)	10	2/1(1d)	PPA	FI	Sample; PRL 252
	AOC No. N-UST/6	Former Infirmary Inactive UST (U)	10	2/1(1d)	PPA	FI	Conduct geophysical survey; sample; PRL 253
	AOC No. N-UST/7	Former Field Distribution Inactive UST1 (U)	10	2/1(1d)	PPA	FI	Conduct geophysical survey; sample; PRL 251
	AOC No. N-UST/8	Former Field Distribution Inactive UST2 (U)	10	2/1(1d)	PPA	FI	Conduct geophysical survey; sample; PRL 251
	AOC No. N-UST/9	Former Officers' Quarters Inactive UST1 (U)	10	2/1(1d)	PPA	FI	Sample; PRL 254
	AOC No. N-UST/10	Former Officers' Quarters Inactive UST2 (H)	10	2/1(1d)	PPA	FI	Sample; PRL 254
	AOC No. N-UST/11	Abandoned UST (U)	10	2/1(1d)	PPA	FI	Sample; PRL 253
	AOC No. N-UST/12	Inactive UST (U)	10	2/1(1d)	PPA	FI	Conduct geophysical survey; sample; PRL 255
	AOC No. N-UST/13	Inactive Oil UST (U)	10	2/1(1d)	PPA	NFI	Unit abandoned in place in 1967
	AOC No. N-UST/14	Former Utility Shop UST1 (U)	10	2/1(1d)	PPA	FI	Sample; PRL 246
	AOC No. N-UST/15	Former Utility Shop UST2 (U)	10	2/1(1d)	PPA	FI	Sample; PRL 246
North Base Storm Drainage System	SWMU No. N-SD/1	East Drainage Endpoint (M)	10	2/1(1d)	UKN	FI	Sample; PRL 256
Building 4790	AOC No. BW4790/1	Building 4790 Removed UST (M)	7	1/1(-)	PPA	NFI	Low level contamination; remove soils
Building 4948	SWMU No. BW4948/1	Underground Pipe and Discharge Area (M)	8	2/2(2a)	EXF,UKN	FI	Sample; PRL 25
Building 4949	AOC No. BW4949/1	TCE Storage Area (M)	8	2/2(2a)	COS	FI	Sample; PRL 25
Building 4951	SWMU No. BW4951/1	Catch Tank 1 (U)	8	2/2(2a)	IAC,EXF	FI	Check unit integrity; sample; PRL 25
Building 4959	SWMU No. BW4959/1	Underground Sump (U)	8	2/2(2a)	COS,EXF	FI	Check unit integrity; sample; PRL 25.
	AOC No. BW4959/1	Drainage Area 1 (M)	8	2/2(2a)	COS,EXF	FI	Sample; PRL 25
Building 4961	SWMU No. BW4961/1	Earthen Basin (M)	8	2/2(2a)	PPA,COS,EXF	FI	Sample; PRL 25
	AOC No. BW4961/1	Drainage Area 2 (M)	8	2/2(2a)	PPA,COS,EXF	FI	Sample; PRL 25

[A] - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)

[B] - Some units originally in OU 7 were reassigned to OU 8 or OU 10

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TABLE 4-1. GENERAL RECOMMENDATIONS FOR SWMUS/AOCS HAVING A MODERATE, HIGH, OR UNKNOWN RELEASE POTENTIAL

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Facility	SWMUs & AOCs		Operable Unit[B]	Plate No./ Sheet No. (BCP)[A]	Potential Contaminants	Rec.	Comments
Building 4962	SWMU No. BW4962/1	Wash Rack and Oil/Water Separator (U)	8	2/2(2a)	PPA,COS,EXF	FI	Check unit integrity; sample; PRL 25
Building 4964	AOC No. BW4964/1	Chemical Disposal Trench (U)	8	-	UKN	FI	Conduct geophysical survey; sample; PRL 25
Building 4965	SWMU No. BW4965/1	Catch Tank 2 (U)	8	2/2(2a)	OOC	FI	Check unit integrity; sample; PRL 25
Building 4970	AOC No. BW4970/1	Building 4970 Removed UST (M)	8	2/4(2c)	PPA	FI	Sample; PRL 306
Building 4976	SWMU No. BW4976/1	Photochemical Discharge Area (H)	8	2/2(2a)	MET,IAC	FI	Sample; PRL 257
Building 5500	SWMU No. BW5500/1	Boiler Blowdown Flash Tank and Leach Field (M)	7	2/8(3c/6a)	UKN	FI	Sample; PRL 258
	AOC No. BW5500/1	Abandoned UST (U)	7	2/8(3c/6a)	PPA	FI	Sample; PRL 258
	AOC No. BW5500/2	Sump (H)	7	2/8(3c/6a)	PPA	FI	Sample; PRL 258
	AOC No. BW5500/3	Removed UST (U)	7	2/8(3c/6a)	PPA	FI	Sample; PRL 258
	AOC No. BW5500/4	Removed Diesel UST (U)	7	2/8(3c/6a)	PPA	FI	Sample; PRL 258
Building 5560	SWMU No. BW5560/1	Oil/Water Separator (U)	7	2/8(3c/6a)	PPA	FI	Check unit integrity
Building 5613	SWMU No. BW5613/1	Accumulation Point (H)	7	2/12(6b)	PPA	FI	Sample; PRL 259
	AOC No. BW5613/1	Product Oil Drum (H)	7	2/12(6b)	PPA	FI	Sample; PRL 259
Building 5780	AOC No. BW5780/1	Removed UST (H)	7	2/13(6wd)	PPA	FI	Sample; Site 260
Building 5790	SWMU No. BW5790/1	Septic System (M)	7	1/1(-)	PPA,COS	FI	Sample; PRL 28
Building 7992	SWMU No. BW7992/1	Oil/Water Separator (H)	7	2/7(2wb)	PPA	FI	Sample; PRL 261
	AOC No. BW7992/1	Aboveground Storage Tanks (H)	7	2/7(2wb)	PPA	FI	Sample; PRL 261
Building 8025	AOC No. BW8025/2	Rubble Pile (U)	7	3/2(39)	ASB,UKN	NFI	Permanently cap wellhead
Building 9500	SWMU No. BW9500/1	Satellite Accumulation Point (M)	7	2/15(35a)	PPA	FI	Sample; PRL 266
Building 9501	SWMU No. BW9501/1	Dry Well (U)	7	2/15(35a)	UKN	FI	Sample; PRL 266
Building 9505	SWMU No. BW9505/1	Dry Well (H)	7	2/15(35a)	MET,IAC,UKN	FI	Sample; PRL 266
Building 9506	AOC No. BW9506/1	Fuel Station (U)	7	2/15(35a)	PPA	FI	Check unit integrity

A - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)

B - Some units originally in OU 7 were reassigned to OU 8 or OU 10

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TABLE 4-1. GENERAL RECOMMENDATIONS FOR SWMUS/AOCS HAVING A MODERATE, HIGH, OR UNKNOWN RELEASE POTENTIAL

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Facility	SWMUs & AOCs		Operable Unit[B]	Plate No./ Sheet No. (BCP)[A]	Potential Contaminants	Rec.	Comments
Building 9511	SWMU No. BW9511/1	Wash Rack (M)	7	2/15(35a)	PPA	NFI	Sample at SWMU No. BW9511/2
	SWMU No. BW9511/2	Earthen Pit (H)	7	2/15(35a)	PPA	FI	Sample; PRL 266
	SWMU No. BW9511/3	Battery and Drum Storage Area (M)	7	2/15(35a)	PPA,MET,IAC	NFI	Very small amount of waste managed
	AOC No. BW9511/1	Oil Storage Sheds (M)	7	2/15(35a)	PPA	FI	Sample; PRL 266
Downfall	SWMU No. BW-MRBS/1	Munitions Residue Burial Site (M)	7	2/15(35a)	UKN	NFI	Only solid wastes disposed; potentially dangerous area
Avenue A	SWMU No. BW-AA/1	Avenue A Unauthorized Disposal Site (H)	7	1/1(-)	MET,DXN	NFI	RA complete; AF awaiting NFRAP approval; Site 34
CALNEV JP-4 Fuel Pipeline	AOC No. BW-CNP/1	CALNEV JP-4 Fuel Pipeline (U)	7	1/1(-)	PPA	FI	Check unit integrity; sample; PRL 302
Contractors Hill	SWMU No. BW-CH/1	Satellite Accumulation Point (M)	8	2/4(2c)	PPA	NFI	Only minor stains on concrete pad
	AOC No. BW-CH/1	Painters' Compound (M)	8	2/4(2c)	OOC	NFI	Unit in use for only two years; provide secondary containment
	AOC No. BW-CH/2	Inactive UST (U)	8	2/4(2c)	PPA	FI	Sample; PRL 303
East Camp	SWMU No. BW-EC/1	Rifle Range (H)	7	3/2(39)	MET	FI	Sample; PRL 267
	AOC No. BW-EC/1	Abandoned UST (U)	7	3/2(39)	PPA	FI	Sample; PRL 268
	AOC No. BW-EC/2	Moving Target Machine Gun Range (U)	7	3/3(45)	PPA,MET	FI	Sample; PRL 269
EOD Range	SWMU No. BW-EOD/1	Thermal Treatment Unit (M)	7	1/1(e)	PPA	FI	Sample; PRL 270
	SWMU No. BW-EOD/3	Residue Pits (M)	7	1/1(-)	MET,UKN	FI	Sample; PRL 270
Forbes Avenue	SWMU No. BW-FA/1	Uncontrolled Borrow Pit (U)	8	2/5(2d)	PPA	FI	Sample; PRL 304
Former Construction Staging Area	AOC No. BW-CSA/1	Drain Outfall (U)	7	2/14(34b)	PPA,COS	FI	Sample; PRL 271
	AOC No. BW-CSA/2	Grease Pits (U)	7	2/14(34b)	PPA,COS	FI	Sample; PRL 271
	AOC No. BW-CSA/3	Abandoned UST (U)	7	2/14(34b)	PPA	FI	Sample; PRL 271
	AOC No. BW-CSA/4	Debris Areas (U)	7	2/14(34b)	PPA,COS	FI	Sample; PRL 271
Former Mojave Corporation Facility	AOC No. BW-MC/1	Grease Pits (U)	7	3/3(45)	PPA,COS	FI	Sample; PRL 272
	AOC No. BW-MC/2	Abandoned UST (U)	7	3/3(45)	PPA	FI	Sample; PRL 272
Main Base Landfills	SWMU No. BW-LF/1	Abandoned Sanitary Landfill (H)	7	2/7(2wb)	PPA,COS,PST	FI	Sample; Site 3
	SWMU No. BW-LF/2	Active Sanitary Landfill (M)	7	2/6(2wa)	PPA,PST,COS,ASB	FI	Sample; Site 4

[A] - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)

[B] - Some units originally in OU 7 were reassigned to OU 8 or OU 10

TABLE 4-1. GENERAL RECOMMENDATIONS FOR SWMUS/AOCS HAVING A MODERATE, HIGH, OR UNKNOWN RELEASE POTENTIAL

(Page 7 of 8)

Facility	SWMUs & AOCs		Operable Unit[B]	Plate No./ Sheet No. (BCP)[A]	Potential Contaminants	Rec.	Comments
North Base Miscellaneous Areas	SWMU No. BW-NBM/2	South Asbestos Waste Pile (M-Air)	10	1/1(-)	ASB	NFI	Encapsulate waste rubble; Site 273
	SWMU No. BW-NBM/3	Drum Disposal Area (H)	10	1/1(-)	UKN	FI	Conduct geophysical survey; sample; PRL 274
	SWMU No. BW-NBM/4	Dump Site (U)	10	1/1(-)	UKN	FI	Sample; PRL 275
	AOC No. BW-NBM/1	Drum Disposal Pit (U)	10	1/1(-)	OOC	NFI	The unit could not be found
	AOC No. BW-NBM/2	Automobile Disposal Area (U)	10	1/1(-)	PPA,UKN	FI	Sample; PRL 276
	AOC No. BW-NBM/3	Former Missile Launch Site (M)	10	1/1(-)	PPA,EXF	FI	Sample; PRL 277
	AOC No. BW-NBM/4	Former Leaking Transformer (H)	10	1/1(-)	PCBs	FI	Sample; PRL 278
North Gate Railroad Area	SWMU No. BW-NG/1	Tar Pit (H)	10	1/1(-)	PPA	FI	Sample; PRL 279
	AOC No. BW-NG/1	Debris Site (U)	10	1/1(-)	UKN	NFI	No evidence of release
Northwest Area	SWMU No. BW-NW/1	Former Rosamond Burning Dump (M)	7	1/1(-)	PPA,MET,PST	NFI	Dump outside base boundary
	SWMU No. BW-NW/2	Drum Disposal Site (H)	7	1/1(-)	PPA	FI	Sample; PRL 280
Precision Impact Range Area	SWMU No. BW-PIRA/1	Burial Pits (U)	7	-	EXP,UKN	NFI	Location unknown
	AOC No. BW-PIRA/1	PB1 (U)	7	-	CHO	NFI	Potentially dangerous area
	AOC No. BW-PIRA/2	PB8 (U)	7	-	EXP	NFI	Potentially dangerous area
	AOC No. BW-PIRA/3	PB10 (U)	7	-	EXP	NFI	Potentially dangerous area
	AOC No. BW-PIRA/4	PB6 (U)	7	-	CHO	NFI	Potentially dangerous area
	AOC No. BW-PIRA/5	HiX-4 Target (U)	7	-	EXP	NFI	Potentially dangerous area
	AOC No. BW-PIRA/6	HiX-12 Target (U)	7	-	EXP	NFI	Potentially dangerous area
	AOC No. BW-PIRA/9	Small Dry Lake Disposal Site (U)	7	-	IAC,EXF	NFI	Insufficient evidence to sample
Rogers Dry Lake Drum Disposal Site	SWMU No. BW-DDS/1	IRP Subsites 1A, 1E (M)	10 10	1/1(-)	PPA,COS	NFI	RA complete; AF awaiting NFRAP approval; Site 1
	SWMU No. BW-DDS/2	IRP Subsites 1B, 1C, 1D (M)		1/1(-)	PPA,EXF	NFI	RA complete; AF awaiting NFRAP approval; Site 1
South Base Rocket Sled Track	AOC No. BW-RS/1	Possible Disposal Area (M)	7	3/1(17)	PPA	FI	Sample; PRL 290
	AOC No. BW-RS/2	Midpoint Service Area (M)	7	3/1(17)	COS,EXF	FI	Sample; PRL 290
	AOC No. BW-RS/3	Eastern Service Area (U)	7	3/1(17)	PPA	FI	Sample; PRL 291
	AOC No. BW-RS/4	Building 533 UST (U)	7	3/1(17)	PPA,COS	FI	Conduct geophysical survey; sample; PRL 291
	AOC No. BW-RS/5	Building 545 UST (U)	7	3/1(17)	PPA	FI	Conduct geophysical survey; sample; PRL 291
	AOC No. BW-RS/6	Building 540 UST (U)	7	3/1(17)	PPA	FI	Conduct geophysical survey; sample; PRL 291
Southern Lancaster Boulevard Area	SWMU No. BW-LB/1	Tar Pit (H)	7	1/1(-)	PPA	FI	Sample; PRL 292
	SWMU No. BW-LB/2	Dump (M)	7	1/1(-)	PPA,OOC	FI	Sample; PRL 293
	SWMU No. BW-LB/3	Former Skeet Shooting Range (H)	7	1/1(-)	MET	FI	Sample; PRL 294
	AOC No. BW-LB/1	Former Gas Station (U)	7	1/1(-)	PPA	FI	Sample; PRL 293

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TABLE 4-1. GENERAL RECOMMENDATIONS FOR SWMUS/AOCS HAVING A MODERATE, HIGH, OR UNKNOWN RELEASE POTENTIAL

(Page 8 of 8)

Facility	SWMUs & AOCs		Operable Unit[a]	Plate No./ Sheet No. (BCP)[a]	Potential Contaminants	Rec.	Comments
Southwest Area	SWMU No. BW-SW/1	Piute Ponds (U)	7	1/1(-)	UKN	FI	Sample; PRL 295
	SWMU No. BW-SW/2	Abandoned Landfill (U)	7	1/1(-)	UKN	FI	Sample; PRL 339
	AOC No. BW-SW/1	Sand Pit (H)	7	1/1(-)	PPA	FI	Sample; PRL 340
Toxic Waste Disposal Site	SWMU No. BW-TW/1	Toxic Waste Disposal Site (H)	8	2/9(4a)	PPA,MET,IAC	NFI	RA complete; AF awaiting NFRAP approval; Site 2

ASB = Asbestos
CHO = Chemical ordnance
COS = Chlorinated organic solvents
DXN = Dioxins
EXF = Exotic (rocket) fuels
EXP = Explosives
FI = Further Investigation
*FI = Sampling Program already proposed
(H) = High past and/or current release potential to soils and/or groundwater
IAC = Inorganics and inorganic acids
(M) = Moderate past and/or current release potential to soils and/or groundwater
MET = Metals
NFI = No further investigation
OOC = Other organic compounds, including ketones
PCBs = Polychlorinated biphenyls
PPA = Petroleum products and additives
PST = Pesticides
Rec. = Recommendation
(U) = Unknown past and/or current release potential to soil and/or groundwater
USTI = Underground Storage Tank Investigation program
UKN = Unknown probable contaminants
- = Not Shown on Plate 1 Sheets

a - Plate Number/Sheet Number (Base Comprehensive Plan Sheet No.)
b - Water SWAT did not indicate contamination in soils or water beneath the dump.

19 481

only 2 years. An asbestos waste pile (SWMU No. BW-NBM/2) was also given the NFI recommendation, with the comment to encapsulate the waste rubble. This unit was assigned a site No. 273.

Two units, an exterior drain (AOC No. BW3735/2) and a wash rack (SWMU No. BW9511/1), were given the NFI recommendation, with the comment that units downstream should be sampled or checked for integrity (SWMU Nos. N4331/4 and BW9511/2, respectively). A rubble pile (AOC No. BW8025/2), a debris site (AOC No. BW-NG/1) and a small dry lake (AOC No. BW-PIRA/9) were given the NFI recommendation because there was insufficient evidence to indicate a release at these units. Several units were given the NFI recommendation either because they are no longer extant (AOC No. BW4790/1, SWMU Nos. N4305/3 and N4505/1); could not be found (SWMU No. BW-PIRA/1 and AOC No. BW-NBM/1); were abandoned in place (AOC No. N-UST/13); or were used for under 5 years (AOC Nos. N-ON/1, N-ON/3, and N-ON/8).

Most units identified on the PIRA Range (AOC Nos. BW-PIRA/1 to BW-PIRA/6 and SWMU No. BW-MRBS/1) were given the NFI recommendation; the potential hazards of conducting intrusive sampling on the bombing range are thought to outweigh the potential environmental hazards due to past releases. Finally, five units were given the NFI recommendation based on previous investigations and remedial actions; these units include the Avenue A Unauthorized Disposal Site (SWMU No. BW-AA/1; Site 34); the Former Rosamond Burning Dump (SWMU No. BW-NW/1); Rogers Dry Lake Drum Disposal Subsites 1A through 1E (SWMU Nos. BW-DDS/1 and BW-DDS/2; Site 1); and the Toxic Waste Disposal Site (SWMU No. BW-TW/1; Site 2).

An FI recommendation was given to a total of 66 SWMUs (22 in OU 7; 22 in OU 8; 22 in OU 10) and 80 AOCs (26 in OU 7; 18 in OU 8; 36 in OU 10). The FI recommendation may be to sample or to check unit integrity.

A total of 48 SWMUs (21 in OU 7; 14 in OU 8; 13 in OU 10) and 79 AOCs (25 in OU 7; 18 in OU 8; 36 in OU 10) were recommended for sampling. Two units (SWMU Nos. BW-LF/1 and BW-LF/2) coincide with previously identified Sites 3 and 4, respectively (OU 7). Ten units (SWMU Nos. BW4948/1, BW4951/1, BW4959/1, BW4961/1, BW4962/1, BW4965/1, and AOC Nos. BW4949/1, BW4959/1, BW4961/1, BW4964/1) were included in previously identified PRL 25 (OU 8), and one unit (SWMU No. BW5790/1) coincides with previously identified PRL 28 (OU 7). The remaining 39 SWMUs and 75 AOCs recommended for sampling were grouped into eight new sites (Sites 224, 225, 229, 236, 238, 260, 297, and 299) and 61 new PRLs (PRLs 226 through 228, 230 through 235, 237, 239 through 243, 245 through 259, 261, 262, 267 through 272, 274 through 280, 290 through 296, 298, 300 through 304, 306, 339, and 340) based on geographic proximity and similarity of contaminants. Tables 4-2 to 4-4 list the revised organization for OUs 7, 8, and 10, respectively.

Initial sampling recommendations for PRLs and sites in OUs 7, 8, and 10 are given in Table 4-5. The exact number and location of soil gas points, soil boreholes, and monitoring wells will be determined during scoping for the Base-Wide RI/FS Work Plan and SAP. An RI/FS is necessarily an iterative process; thus, where recommended, a soil gas survey and/or geophysical

TABLE 4-2. LIST OF SITES AND PRLS INCLUDED IN OPERABLE UNIT 7

IRP Area	Site/PRL	Name
LF-30	Site 3	Abandoned Sanitary Landfill
	PRL 261	Oil/Water Separator (Bldg. 7992)
LF-40	Site 4	Active Sanitary Landfill
WP-190	PRL 28	Septic System (Bldg. 5790)
OT-230	Site 34*	Avenue A Unauthorized Disposal Site
DP-231	PRL 280	Drum Disposal Site (Northwest Area)
WP-232	PRL 295	Piute Ponds (Southwest Area)
LF-233	PRL 339	Abandoned Landfill (Southwest Area)
OT-234	PRL 340	Sand Pit (Southwest Area)
ST-240	Site 260	Removed UST (Bldg. 5780)
	PRL 258	Sump & USTs (Bldg. 5500)
	PRL 259	Accumulation Point (Bldg. 5613)
ST-241	PRL 265*	Removed UST (Bldg. 8035)
	PRL 264*	Removed UST (Bldg. 8030)
OT-242	PRL 262*	Removed UST (Bldg. 8020)
	PRL 263*	Removed UST (Bldg. 8025)
	PRL 267	Rifle Range (East Camp)
	PRL 268	Abandoned UST (East Camp)
	PRL 269	Moving Target Machine Gun Range (East Camp)
	PRL 272	Abandoned UST & Grease Pits (Former Mojave Corporation)
OT-243	PRL 266	Range Control Station - Downfall (Bldg. 9500 to 9512)
DP-244	PRL 270	Residue Pits and Thermal Treatment Unit (EOD Range)
ST-245	PRL 271	Abandoned UST & Grease Pits (Former Construction Staging Area)
OT-250	PRL 296	Small Arms Firing Range (Bldgs. 210 & 227)
OT-260	PRL 290	Possible Disposal Area (South Base Sled Track)
	PRL 291	USTs (Bldgs. 533, 540, & 545)
OT-270	PRL 292	Tar Pit (Southern Lancaster Blvd.)
	PRL 293	Dump (Southern Lancaster Blvd.)
	PRL 294	Former Skeet Shooting Range (Southern Lancaster Blvd.)
ST-275	PRL 302	CalNev JP-4 Fuel Pipeline

*Recommended for NFI

TABLE 4-3. LIST OF SITES AND PRLS INCLUDED IN OPERABLE UNIT 8

IRP Area	Site/PRL	Name
DP-20	Site 2[a]	Toxic Waste Disposal Site
	Site 9[b]	Main Base Asphaltic Sealer Storage Tanks
OT-62	PRL 304	Uncontrolled Borrow Pit (Forbes Avenue)
ST-80	PRL 25	Main Base Exotic Fuel Storage Area (Bldgs. 4948 to 4965)
OT-81	PRL 257	Photochemical Discharge Area (Bldg. 4976)
ST-90	PRL 31[b]	Main Base Fuel Farm (Bldgs. 4924 and 4929)
	PRL 61[b]	Former Hazardous Waste Accumulation Area (Bldg. 4916)
	PRL 63[b]	JP-4 Pipeline
	PRL 303	Inactive UST (Contractors Hill)
	PRL 306	Removed UST (Bldg. 4970)
OT-95	Site 224	Removed Waste Oil Tank (Bldg. 3510)
	Site 225	Former Gasoline Station (Bldg. 3514)
	Site 297	Removed Waste Oil UST (Bldg. 2110)
	Site 299	Removed Waste Oil UST (Bldg. 2450)
	PRL 226	Concrete Pad (Bldg. 3739)
	PRL 227	Former Substation (Bldg. 3900)
	PRL 298	USTs (Bldg. 2340)
	PRL 300	Common Yard (Bldg. 3500)
	PRL 301	Paint Shop Accumulation Point (Bldg. 3500)

[a] - Recommended for NFI
[b] - These units were reassigned to OU 8 from OU 1 and are described in Appendix A.

TABLE 4-4. LIST OF SITES AND PRLS INCLUDED IN OPERABLE UNIT 10

IRP Area	Site/PRL	Name
DP-10	Site 1*	IRP Subsites 1A to 1E
OT-11	PRL 274	Drum Disposal Area (North Base Miscellaneous)
	PRL 275	Dump Site (North Base Miscellaneous)
	PRL 277	Former Missile Launch Site (North Base Miscellaneous)
	PRL 278	Former Leaking Transformer (Lake Shore Drive)
OT-12	Site 273*	South Asbestos Waste Pile
DP-13	PRL 276	Automobile Disposal Area (North Base Miscellaneous)
	PRL 279	Tar Pit (North Gate)
OT-14	Site 229	Removed UST (Bldg. 4305)
	Site 236	Removed UST (Bldg. 4401)
	Site 238	Removed UST (Bldg. 4402)
	PRL 228	Evaporation Pond (Bldg. 4301)
	PRL 230	Active and Inactive USTs (Bldgs. 4315 & 4318)
	PRL 231	Battery Waste Area (Bldg. 4317)
	PRL 232	Evaporation Pond (Bldg. 4331)
	PRL 233	Sludge Drying Beds (Bldg. 4331)
	PRL 234	Fuel Tanks (Bldg. 4389)
	PRL 235	Removed UST (Bldg. 4400)
	PRL 237	Dark Room Floor Vault (Bldg. 4402)
	PRL 239	Accumulation Point (Bldg. 4410)
	PRL 240	Former Sump (Bldg. 4505)
	PRL 241	USTs (Bldg. 4505)
	PRL 242	Former Leaking Transformer Unit (Bldg. 4505)
	PRL 243	Tank Farm (Bldg. 4511)
	PRL 244*	Inactive UST (Bldg. 4515)
	PRL 245	Former Motor Repair Shop (Old North Base)
	PRL 246	Former Utility Shop USTs (Old North Base)
	PRL 247	Former Inflammable Storage Shed (Old North Base)
	PRL 248	Former Fire Station (Old North Base)
	PRL 249	Former Gasoline Station UST (Old North Base)
	PRL 250	Former Aircraft Fuel Storage UST (Old North Base)
	PRL 251	Former Field Distribution USTs (Old North Base)
	PRL 252	Former Lavatory Inactive USTs (Old North Base)
	PRL 253	Former Infirmary Inactive UST (Old North Base)
	PRL 254	Former Officers Quarters Inactive USTs (Old North Base)
	PRL 255	Inactive UST (Old North Base)
	PRL 256	East Drainage Endpoint (North Base)

*Recommended for NFI

TABLE 4-5. SAMPLING RECOMMENDATIONS FOR SITES/PRLS IN OPERABLE UNIT NOS. 7, 8, AND 10
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IRP Area	Site/PRL	SWMUs/AOCs	Plate No./ Sheet No. (BCP)	Recommended Sampling Program	Recommended Analyses in Addition to EPA Methods 8240, 8270 and ICP Scan for Metals
OU 7					
LF-30	Site 3	SWMU No. BW-LF/1 Abandoned Sanitary Landfill	2/7(2wb)	Geophysical survey Air samples Soil samples Groundwater samples	TPH (EPA Method 418.1) Pesticides and PCBs (EPA Method 8080)
	PRL 261	SWMU No. BW7992/1 Oil/Water Separator AOC No. BW7992/1 Aboveground Storage Tanks	2/7(2wb) 2/7(2wb)	Soil samples Groundwater samples	LUFT - *diesel fraction* TPH (EPA Method 418.1)
LF-40	Site 4	SWMU No. BW-LF/2 Active Sanitary Landfill	2/6(2wa)	Air samples Soil samples Groundwater samples	TPH (EPA Method 418.1) Pesticides and PCBs (EPA Method 8080)
WP-190	PRL 28	SWMU No. BW5790/1 Septic System	1/1(-)	Soil gas survey Soil samples Groundwater samples	TPH (EPA Method 418.1)
DP-231	PRL 280	SWMU No. BW-NW/2 Drum Disposal Site	1/1(-)	Soil samples	TPH (EPA Method 418.1) Anions
WP-232	PRL 295	SWMU No. BW-SW/1 Piute Ponds	1/1(-)	Soil samples Groundwater samples	Pesticides and PCBs (EPA Method 8080)
LF-233	PRL 339	SWMU No. BW-SW/2 Abandoned Landfill	1/1(-)	Geophysical survey *Soil samples* Groundwater samples	TPH (EPA Method 418.1) *Pesticides and PCBs (EPA Method 8080)*
OT-234	PRL 340	AOC No. BW-SW/1 Sand Pit	1/1(-)	Soil samples	Oil and Grease (EPA Method 413.2)
ST-240	PRL 258	SWMU No. BW5500/1 Boiler Blowdown Flash Task and Leach Field AOC No. BW5500/1 Abandoned UST AOC No. BW5500/2 Sump AOC No. BW5500/3 Removed UST AOC No. BW5500/4 Removed Diesel UST	2/8(3c/6a) 2/8(3c/6a) 2/8(3c/6a) 2/8(3c/6a) 2/8(3c/6a)	Soil samples *Groundwater samples*	LUFT - gasoline and diesel fractions; Organic lead (Method SW7420) Ethylene dibromide
	PRL 259	SWMU No. BW5613/1 Accumulation Pont AOC No. BW5613/1 Product Oil Drum	2/12(6b) 2/12(6b)	Soil samples	*Oil and grease (EPA Method 413.1)*

TABLE 4-5. SAMPLING RECOMMENDATIONS FOR SITES/PRLS IN OPERABLE UNIT NOS. 7, 8, AND 10

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IRP Area	Site/PRL	SWMUs/AOCs	Plate No./ Sheet No. (BCP)	Recommended Sampling Program	Recommended Analyses in Addition to EPA Methods 8240, 8270 and ICP Scan for Metals
OU 7 (continued)					
ST-240 (cont'd)	Site 260	AOC No. BW5780/1 Removed UST	2/13 (6wd)	Soil samples Groundwater samples	LUFT - diesel fraction
ST-241	PRL 264	AOC No. BW8030/1 Removed UST	3/4(51)	None; no contamination found	NFI
	PRL 265	AOC No. BW8035/1 Removed UST	3/5(52)	None; no contamination found	NFI
OT-242	PRL 262	AOC No. BW8020/1 Removed UST	3/2(39)	None; no contamination found	NFI
	PRL 263	AOC No. BW8025/1 Removed UST	3/2(39)	None; no contamination found	NFI
OT-243	PRL 266	SWMU No. BW9500/1 Satellite Accumulation Point SWMU No. BW9501/1 Dry Well SWMU No. BW9505/1 Dry Well SWMU No. BW9511/2 Earthen Pit AOC No. BW9511/1 Oil Storage Sheds	2/15(35a) 2/15(35a) 2/15(35a) 2/15(35a) 2/15(35a) 2/15(35a)	Geophysics survey Soil samples Groundwater samples	LUFT - diesel fraction Oil and grease (EPA Method 413.1)
	PRL 267	SWMU No. BW-EC/1 Rifle Range	3/2(39)	Soil samples Groundwater samples	ICP scan for metals only
	PRL 268	AOC No. BW-EC/1 Abandoned UST	3/2(39)	Soil samples	TPH (EPA Method 418.1)
	PRL 269	AOC No. BW-EC/2 Moving Target Machine Gun Range	3/3(45)	Soil samples Groundwater samples	LUFT - diesel fraction
DP-244	PRL 270	SWMU No. BW-EOD/1 Thermal Treatment Unit SWMU No. BW-EOD/3 Residue Pits	1/1(-) 1/1(-)	Soil samples	ICP scan for metals only at SWMU No. BW-EOD/3
ST-245	PRL 271	AOC No. BW-CSA/1 Drain Outfall AOC No. BW-CSA/2 Grease Pits AOC No. BW-CSA/3 Abandoned UST AOC No. BW-CSA/4 Debris Areas	2/14(34b) 2/14(34b) 2/14(34b) 2/14(34b)	Soil samples Groundwater samples	TPH (EPA Method 418.1) Oil and grease (EPA Method 413.1)

TABLE 4-5. SAMPLING RECOMMENDATIONS FOR SITES/PRLS IN OPERABLE UNIT NOS. 7, 8, AND 10

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IRP Area	Site/PRL	SWMUs/AOCs	Plate No./ Sheet No. (BCP)	Recommended Sampling Program	Recommended Analyses in Addition to EPA Methods 8240, 8270 and ICP Scan for Metals
OU 7 (continued)					
ST-245 (cont'd)	PRL 272	AOC No. BW-MC/1 Grease Pits AOC No. BW-MC/2 Abandoned UST	3/3(45) 3/3(45)	Soil samples Groundwater samples	TPH (EPA Method 418.1) Oil and grease (EPA Method 413.1)
OT-250	PRL 296	SWMU No. BW210/1 Trap/Skeet Range SWMU No. BW227/1 Small Arms Firing Range	1/1(-) 1/1(-)	Soil samples Groundwater samples	ICP scan for metals only
OT-260	PRL 290	AOC No. BW-RS/1 Possible Disposal Area AOC No. BW-RS/2 Midpoint Service Area	3/1(17) 3/1(17)	Soil samples Groundwater samples	TPH (EPA Method 418.1) Anions; pH
	PRL 291	AOC No. BW-RS/3 Eastern Service Area AOC No. BW-RS/4 Building 533 UST AOC No. BW-RS/5 Building 545 UST AOC No. BW-RS/6 Building 540 UST	3/1(17) 3/1(17) 3/1(17) 3/1(17)	Geophysics survey Soil samples Groundwater samples	TPH (EPA Method 418.1)
OT-270	PRL 292	SWMU No. BW-LB/1 Tar Pit	1/1(-)	Soil samples	TPH (EPA Method 418.1)
	PRL 293	SWMU No. BW-LB/2 Dump AOC No. BW-LB/1 Former Gasoline Station	1/1(-) 1/1(-)	Soil samples Groundwater samples	LUFT - gasoline fraction TPH (EPA Method 418.1) Oil and Grease (EPA Method 413.1)
	PRL 294	SWMU No. BW-LB/3 Former Skeet Shooting Range	1/1(-)	Soil samples Groundwater samples	ICP scan for metals only
ST-275	PRL 302	AOC No. BW-CNP/1 CALNEV JP-4 Fuel Pipeline	1/1(-)	Soil gas survey	None

TABLE 4-5. SAMPLING RECOMMENDATIONS FOR SITES/PRLS IN OPERABLE UNIT NOS. 7, 8, AND 10

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IRP Area	Site/PRL	SWMUs/AOCs	Plate No./ Sheet No. (BCP)	Recommended Sampling Program	Recommended Analyses in Addition to EPA Methods 8240, 8270 and ICP Scan for Metals
OU 8					
OT-62	PRL 304	SWMU No. BW-FA/1 Uncontrolled Borrow Pit	2/5(2d)	Soil gas survey Groundwater samples	TPH (EPA Method 418.1)
ST-80	PRL 25	SWMU No. BW4948/1 Underground Pipe and Discharge Area AOC No. BW/4949/1 TCE Storage Area SWMU No. 4951/1 Catch Tank 1 SWMU No. 4959/1 Underground Sump AOC No. BW4959/1 Drainage Area 1 SWMU No. BW4961/1 Earthen Basin AOC No. BW4961/1 Drainage Area 2 SWMU No. BW4962/1 Wash Rack and Oil/Water Separator AOC No. BW4964/1 Chemical Disposal Trench SWMU No. BW4965/1 Catch Tank 2	2/2(2a) 2/2(2a) 2/2(2a) 2/2(2a) 2/2(2a) 2/2(2a) 2/2(2a) 2/2(2a) - 2/2(2a)	Geophysics survey Soil gas survey Soil samples Groundwater samples	TPH (EPA Method 418.1); Anions Hydrazine, pH, furfuryl alcohol, aniline
OT-81	PRL 257	SWMU No. BW4976/1 Photochemical Discharge Area	2/2(2a)	Soil samples	ICP scan for metals only
	PRL 298	AOC No. BW2340/1 Active USTs AOC No. BW2340/2 Inactive Diesel UST AOC No. BW2340/3 Removed Waste Oil UST	2/9(4a) 2/9(4a) 2/9(4a)	Geophysics survey Groundwater samples	LUFT - diesel fraction
	PRL 300	SWMU No. BW3500/1 Common Yard AOC No. BW3500/1 Painted Desert	2/9(4a) 2/9(4a)	Soil samples Groundwater samples	Asbestos; Pesticides and PCBs (EPA Method 8080); TPH (EPA Method 418.1)
	PRL 301	SWMU No. BW3500/5 Paint Stop Accumulation Paint	2/9(4a)	Soil samples	None
ST-90	PRL 226	AOC No. BW3735/1 Supply Yard AOC No. BW3739/1 Concrete Pad	2/10(4b) 2/10(4b)	Soil gas surveys Soil samples	LUFT - diesel fraction TPH (EPA Method 418.1)
	PRL 227	AOC No. BW3900/1 Former Substation	2/10(4b)	Soil samples	PCBs (EPA Method 8080)
	PRL 303	AOC No. BW-CH/2 Inactive UST	2/4(2c)	Soil samples	LUFT-diesel fraction
	PRL 306	AOC No. BW4970/1 Building 4970 Removed UST	2/4 (2c)	Soil samples Groundwater samples	LUFT - diesel fraction
OT-95	Site 224	SWMU No. BW3510/7 Removed Waste Oil Tank AOC No. BW3510/2 Former Gasoline Station	2/9(4a) 2/9(4a)	Geophysical survey Soil samples Groundwater samples	LUFT - gasoline fraction Oil and grease (EPA Method 413.1) Organic lead (Method SW7420) Ethylene dibromide

TABLE 4-5. SAMPLING RECOMMENDATIONS FOR SITES/PRLS IN OPERABLE UNIT NOS. 7, 8, AND 10
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IRP Area	Site/PRL	SWMUs/AOCs	Plate No./ Sheet No. (BCP)	Recommended Sampling Program	Recommended Analyses in Addition to EPA Methods 8240, 8270 and ICP Scan for Metals
OU 8 (continued)					
OT-95 (cont'd)	Site 225	AOC No. BW3514/1 Former Gasoline Station	2/9(4a)	Geophysics survey Soil samples Groundwater samples	LUFT - diesel and gasoline fraction TPH (EPA Method 418.1) Oil and grease (EPA Method 413.1)
	Site 297	SWMU No. BW2110/4 Removal Waste Oil UST AOC No. BW2110/1 Exterior Lube Bay Drain AOC No. BW2110/2 Storage Area Drain AOC No. BW2110/4 Inactive USTs	2/11(4c) 2/11(4c) 2/11(4c) 2/11(4c)	Geophysics survey Soil samples Groundwater samples	LUFT - gasoline and diesel fractions TPH (EPA Method 418.1) Oil and grease (EPA Method 413.1) Ethylene glycol
	Site 299	SWMU No. BW2450/2 Waste Oil Disposal Sink SWMU No. BW2450/3 Removed Waste Oil UST	2/11(4c) 2/11(4c)	Soil samples Groundwater samples	LUFT - diesel fraction
OU 10					
OT-11	PRL 274	SWMU No. BW-NBM/3 Drum Disposal Area	1/1(-)	Geophysics survey Soil samples Groundwater samples	TPH (EPA Method 418.1)
	PRL 275	SWMU No. BW-NBM/4 Dump Site	1/1(-)	Soil samples	TPH (EPA Method 418.1)
OT-12	PRL 228	SWMU No. N4301/1 Evaporation Pond	2/1(1d)	Soil samples Groundwater samples	TPH (EPA Method 418.1)
	PRL 230	AOC No. N4315/1 Active UST AOC No. N4315/2 Inactive UST AOC No. N4318/1 Former Motor Pool	2/1(1d) 2/1(1d) 2/1(1d)	Soil samples Groundwater samples	LUFT - gasoline fraction TPH (EPA Method 418.1) Organic lead (Method SW 7420) Ethylene dibromide
	PRL 231	SWMU No. N4317/1 Battery Waste Area	2/1(1d)	Soil samples	ICP scan for metals only
	PRL 232	SWMU No. N4331/2 Evaporation Pond	2/1(1d)	Soil/sediment samples Groundwater samples	TPH (EPA Method 418.1) Pesticides and PCBs (EPA Method 8080)
	PRL 233	SWMU No. N4331/3 Sludge Drying Beds	2/1(1d)	Soil samples	TPH (EPA Method 418.1) Pesticides and PCBs (EPA Method 8080)

TABLE 4-5. SAMPLING RECOMMENDATIONS FOR SITES/PRLS IN OPERABLE UNIT NOS. 7, 8, AND 10

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IRP Area	Site/PRL	SWMUs/AOCs		Plate No./ Sheet No. (BCP)	Recommended Sampling Program	Recommended Analyses in Addition to EPA Methods 8240, 8270 and ICP Scan for Metals
OU 10 (continued)						
OT-12 (cont'd)	PRL 234	AOC No. N4389/1 AOC No. N4389/2 AOC No. N4389/3	Aboveground Fuel Tanks Removed Underground Fuel Tank Engine Test Cell	2/3(2b) 2/3(2b) 2/3(2b)	Soil samples Groundwater samples	LUFT-jet fuel fraction Oil and grease (EPA Method 413.1)
	PRL 235	AOC No. N4400/1	Removed UST	2/1(1d)	Soil samples	LUFT - diesel fraction
	PRL 237	SWMU No. N4402/2	Dark Room Floor Vault	2/1(1d)	Soil samples	ICP scan for metals only
	PRL 239	SWMU No. N4410/1 SWMU No. N4410/2	Drainage System Accumulation Point	2/1(1d) 2/1(1d)	Soil samples Groundwater samples	TPH (EPA Method 418.1)
	PRL 240	SWMU No. N4505/5 SWMU No. N4505/6 AOC No. N4505/3	Former Sump Former Leach Field Air Compressor and Coolant Radiator	2/1(1d) 2/1(1d) 2/1(1d)	Soil samples Groundwater samples	TPH (EPA Method 418.1)
	PRL 241	AOC No. N4505/1 AOC No. N4505/2	Removed Hangar UST Removed NW Wing UST	2/1(1d) 2/1(1d)	Geophysics survey Soil samples Groundwater samples	LUFT - diesel fraction
	PRL 242	AOC No. N4505/4	Former Leaking Transformer Unit	2/1(1d)	Swipe samples	PCBs (EPA Method 8080)
	PRL 243	AOC No. N4511/1	Tank Farm	2/1(1d)	Soil samples Groundwater samples	LUFT - jet fuel fraction
	PRL 244	AOC No. N4515/1	Removed UST	2/1(1d)	None; no contamination found	NFI
	PRL 245	AOC No. N-ON/2 AOC No. N-ON/7	Former Motor Repair Shop Potential Former Garage	2/1(1d) 2/1(1d)	Soil gas survey Soil samples Groundwater samples	Oil and grease (EPA Method 413.1)
	PRL 246	AOC No. N-ON/4 AOC No. N-UST/14 AOC No. N-UST/15	Former Utility Shop 2 Former Utility Shop UST1 Former Utility Shop UST2	2/1(1d) 2/1(1d) 2/1(1d)	Soil samples Groundwater samples	LUFT - diesel fraction
	PRL 247	AOC No. N-ON/5	Former Inflammable Storage Shed	2/1(1d)	Soil samples	TPH (EPA Method 418.1)
	PRL 248	AOC No. N-ON/6	Former Fire Station	2/1(1d)	Soil samples	TPH (EPA Method 418.1)

TABLE 4-5. SAMPLING RECOMMENDATIONS FOR SITES/PRLS IN OPERABLE UNIT NOS. 7, 8, AND 10
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IRP Area	Site/PRL	SWMUs/AOCs	Plate No./ Sheet No. (BCP)	Recommended Sampling Program	Recommended Analyses in Addition to EPA Methods 8240, 8270 and ICP Scan for Metals
OU 10 (continued)					
OT-12 (cont'd)	PRL 249	AOC No. N-UST/1 Former Gasoline Station UST	2/1(1d)	Geophysics survey Soil samples	LUFT - gasoline fraction Organic lead (Method SW7420)
	PRL 250	AOC No. N-UST/2 Former Aircraft Fuel Storage UST	2/1(1d)	Soil samples	LUFT - jet fuel fraction Organic lead (Method SW7420)
	PRL 251	AOC No. N-UST/3 Former Mess Hall Inactive UST AOC No. N-UST/7 Former Field Distribution Inactive UST1 AOC No. N-UST/8 Former Field Distribution Inactive UST2	2/1(1d) 2/1(1d) 2/1(1d)	Geophysics survey Soil samples	LUFT - diesel fraction
	PRL 252	AOC No. N-UST/4 Former Lavatory Inactive UST1 AOC No. N-UST/5 Former Lavatory Inactive UST2	2/1 (1d) 2/1 (1d)	Soil samples Groundwater samples	LUFT - diesel fraction
	PRL 253	AOC No. N-UST/6 Former Infirmary Inactive UST AOC No. N-UST/11 Abandoned UST	2/1 (1d) 2/1 (1d)	Geophysics survey Soil samples	LUFT - diesel fraction
	PRL 254	AOC No. N-UST/9 Former Officers Quarters Inactive UST1 AOC No. N-UST/10 Former Officers Quarters Inactive UST2	2/1(1d) 2/1(1d)	Soil samples Groundwater samples	LUFT - diesel fraction
	PRL 255	AOC No. N-UST/12 Inactive UST	2/1(1d)	Geophysical survey Soil samples	LUFT - gasoline fraction Organic lead (Method SW7420)
	PRL 256	SWMU No. N-SD/1 East Drainage Endpoint	2/1(1d)	Soil samples Groundwater samples	TPH (EPA Method 418.1) Pesticides and PCBs (EPA Method 8080)
	Site 273	SWMU No. BW-NBM/2 South Asbestos Waste Pile	1/1(-)	Remediate	Encapsulate Waste Rubble as at SWMU No. BW-NBM/1
DP-13	PRL 276	AOC No. BW-NBM/2 Automobile Disposal Area	1/1(-)	Soil samples	TPH (EPA Method 418.1)
	PRL 277	AOC No. BW-NBM/3 Former Missile Launch Site	1/1(-)	Soil samples Groundwater Samples	LUFT - jet fuel fraction Ammonium Perchlorate
	PRL 278	AOC No. BW-NBM/4 Former Leaking Transformer	1/1(-)	Soil samples Groundwater samples	PCBs (EPA Method 8080)

TABLE 4-5. SAMPLING RECOMMENDATIONS FOR SITES/PRLS IN OPERABLE UNIT NOS. 7, 8, AND 10

(Page 8 of 8)

IRP Area	Site/PRL	SWMUs/AOCs	Plate No./ Sheet No. (BCP)	Recommended Sampling Program	Recommended Analyses in Addition to EPA Methods 8240, 8270 and ICP Scan for Metals
OU 10 (continued)					
DP-13 (cont'd)	PRL 279	SWMU No. BW-NG/1 Tar Pit	1/1(-)	Soil samples	TPH (EPA Method 418.1) Anions
OT-14	Site 229	AOC No. N4305/1 Removed UST	2/1(1d)	Soil samples Groundwater samples	LUFT-diesel fraction
	Site 236	AOC No. N4401/1 Removed UST	2/1(1d)	Soil samples Groundwater samples	LUFT - diesel fraction
	Site 238	AOC No. N4402/1 Removed UST	2/1(1d)	Soil samples Groundwater samples	LUFT - diesel fraction

survey would be conducted first and, depending on results, soil boreholes would be drilled later, with monitoring wells installed last. We recommend that all soil and groundwater samples be analyzed for volatile organic compounds (EPA Method 8240 or 8260), for semivolatile organic compounds (EPA Method 8270), and for 23 elemental metals (ICP scan). In addition, Table 4-5 recommends other analyses to be performed for specific PRLs and sites.

The 22 SWMUs (one in OU 7; 12 in OU 8; nine in OU 10) and two AOCs (both in OU 7) given the FI recommendation "check unit integrity" are presented in Table 4-6. This group includes a satellite accumulation point; three floor drains, one sink and drain, the sanitary sewer lines, the storm drain system, six oil/water separators; two sand and/or grease traps, three sumps, two catch tanks, one lift pit, one underground pipeline, and one fuel station. Following a check of unit integrity, the recommendation for these units may be downgraded to NFI, or upgraded to FI/sample.

TABLE 4-6. RECOMMENDATIONS FOR CHECKING INTEGRITY OF SWMUS/AOCS
(Page 1 of 2)

Unit	Facility		SWMUs & AOCs	Recommendations
Accumulation Point	Building 4401	SWMU No. N4401/2	Satellite Accumulation Point	Check area for secondary containment
Drains	Building 4305	SWMU No. N4305/1	Storm Drain System	Remove grate, clean drain, visually inspect for cracks
	Building 4401	SWMU No. N4401/1	Floor Drain	Remove grate, clean drain, visually inspect for cracks
	Building 4402	SWMU No. N4402/1	Dark Room Sinks	Conduct T.V. test, or dye tracer studies, or pressure or flow test
	Building 4402	SWMU No. N4402/3	Floor Drain	Remove grate, clean drain, visually inspect for cracks
	Building 4505	SWMU No. N4505/3	Floor Drain	Remove grate, clean drain, visually inspect for cracks
Holding Units	Building 2110	SWMU No. BW2110/2	Grease Traps	Remove cover, clean trap, visually inspect for cracks
	Building 2110	SWMU No. BW2110/5	Wash Rack/Grease Trap	Remove cover, clean trap, visually inspect for cracks
	Building 3510	SWMU No. BW3510/10	Refueling Vehicle Sump	Remove cover, clean unit, visually inspect for cracks
	Building 4331	SWMU No. N4331/1	Imhoff Tank	Remove cover, clean unit, visually check integrity of wood and concrete
	Building 4951	SWMU No. BW4951/1	Catch Tank 1	Remove cover, clean unit, visually inspect for cracks
	Building 4959	SWMU No. BW4959/1	Underground Sump	Conduct leak test on unit
	Building 4965	SWMU No. BW4965/1	Catch Tank 2	Remove cover, clean unit, visually inspect for cracks
Oil/Water Separators	Building 2450	SWMU No. BW2450/4	Oil/Water Separator	Remove cover, clean separator, visually inspect for cracks
	Building 3500	SWMU No. BW3500/6	Oil/Water Separator	Remove cover, clean separator, visually inspect for cracks
	Building 3510	SWMU No. BW3510/5	Steam Cleaning Oil/Water Separator	Remove cover, clean separator, visually inspect for cracks
	Building 3510	SWMU No. BW3510/6	Wash Rack Oil/Water Separator	Remove cover, clean separator, visually inspect for cracks
	Building 4962	SWMU No. BW4962/1	Wash Rack Oil/Water Separator	Remove cover, clean separator, visually inspect for cracks
	Building 5560	SWMU No. BW5560/1	Oil/Water Separator	Remove cover, clean separator, visually inspect for cracks
Pipeline	CALNEV Pipeline	AOC No. BW-CNP/1	CALNEV JP-4 Fuel Pipeline	Conduct pressure or flow test on the unit

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TABLE 4-6. RECOMMENDATIONS FOR CHECKING INTEGRITY OF SWMUS/AOCS

(Page 2 of 2)

Unit	Facility		SWMUs & AOCs	Recommendations
Pits	Building 3510	SWMU No. BW3510/1	Hydraulic Lift Pits	Remove cover, clean unit, visually inspect for cracks
	Building 4305	SWMU No. BW4305/2	Sump Pit	Remove cover, clean unit, visually inspect for cracks
Sewer Lines	Building 4331	SWMU No. N4331/4	Sewer Lines	Conduct T.V. test, or dye tracer studies, or pressure or flow test on selected sections
Underground Storage Tank	Building 9506	AOC No. BW9506/1	Fuel Station	Conduct leak test on units

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Underground Storage Tank Investigation

FINAL TECHNICAL REPORT

Volume I
Sections 1.0 through 3.0
Third Edition

March 1998

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CALIFORNIA

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IRP PROGRAM OFFICE

Patricia V. Rowans
RESTORATION TEAM CHIEF

UNITED STATES AIR FORCE
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ENVIRONMENTAL RESTORATION DIVISION (ERD)
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This report has been prepared for the United States Air Force by Earth Tech, Inc. (Earth Tech) for the purpose of aiding in the decision-making process for areas of concern under the Air Force Installation Restoration Program (IRP). As the report relates to actual or possible releases of potentially hazardous substances, this report has been prepared prior to an Air Force final decision on remedial action because it may be in the public's interest. The limited objectives of this report and the ongoing nature of the IRP, along with the evolving knowledge of site conditions and chemical effects on human health and the environment, must be considered when evaluating this report. Acceptance of this report in performance of the contract under which it is prepared does not mean that the Air Force adopts the conclusions, recommendations or other views expressed herein, which are those of the contractor only and do not necessarily reflect the official position of the United States Air Force.

Certain data referenced in this report reflect the work of others. Earth Tech has not verified the accuracy, completeness or validity of these data. Consequently, Earth Tech accepts no responsibility for endorsing or authenticating this information. In this document, Earth Tech uses these data only in an explanatory or historical perspective.

PREFACE

This Underground Storage Tank Investigation (USTI) Report summarizes USTI activities performed at Edwards Air Force Base (AFB) from 1994 through 1997, including results of data collected, and conclusions and recommendations for categorization of sites. The USTI Report is intended to be a document that will be updated as additional information, or additional report sections become available. Report sections will be inserted dealing with specific facilities where underground storage tanks have been removed and environmental sampling and analysis performed. Periodic updating of the table of contents will also be necessary to keep up with the addition of report sections.

Earth Tech, Inc. (Earth Tech) is a contractor for the USTI program at Edwards AFB, California. This document was developed for the U.S. Air Force Center for Environmental Excellence (AFCEE) and the Hazardous Waste Remedial Actions Program (HAZWRAP) of Lockheed Martin Energy Systems, Inc., according to the requirements of Contract No. F33615-90-D-4007 Delivery Order 0010 and U.S. Department of Energy Contract No. DE-AC05-84OR21400.

The work presented in this edition was accomplished between 1992 and 1997. The Earth Tech Program Manager for this contract is Ray Sugiura. The Project Manager is Derrick Coleman. The HAZWRAP Project Manager is Ken White. The Team Chief for the AFCEE is Patricia V. Rowans. The Edwards AFB Project Manager is James Specht.

Approved:

Ray Sugiura, Program Manager
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This Underground Storage Tank Technical Report summarizes the Underground Storage Tank Investigation activities performed at Edwards Air Force Base from 1992 to 1995, including results of data collected, and conclusions and recommendations for categorization of sites.

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LIST OF ACRONYMS

1,2-DCA	1,2-Dichloroethane
AFB	Air Force Base
AFFTC/EM	Air Force Flight Test Center/Environmental Management Directorate
AFRPL	U.S. Air Force Rocket Propulsion Laboratory
AOC	area of concern
AST	Aboveground Storage Tank
AVEK	Antelope Valley East Kern
AVGAS	Aviation Gas
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
Cal EPA	California Environmental Protection Agency
Cal OSHA	California Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CGI	combustible gas indicator
DOD	Department of Defense
DOT	Department of Transportation
EMI	electromagnetic induction
EMO	Environmental Management Operations
ESI/RFA	Expanded Source Investigation/RCRA Facility Assessment
GPR	ground penetrating radar
GPS	global positioning system
HAZWRAP	Hazardous Waste Remedial Actions Program
IRP	Installation Restoration Program
IRPIMS	IRP Information Management System
ITIR	informal technical information report
JPL	Jet Propulsion Laboratory
KCEHSD	Kern County Environmental Health Services Department
kg	kilogram
LEL	lower explosive limit
LUFT	leaking underground fuel tank
MCLs	maximum contaminant levels
mg	milligram
mg/kg	milligram per kilogram
mg/L	milligram per liter
MOGAS	Motor Gasoline
msl	mean sea level
NASA	National Aeronautics and Space Administration
NCP	National Contingency Plan
NEPA	National Environmental Protection Act
NFI/NFA	no further investigation/no further action
NO_3	nitrate
NO_2	nitrite
NPL	National Priorities List
OU	Operable Unit

EXECUTIVE SUMMARY

This report presents the results of the Underground Storage Tank Investigation (USTI) for Edwards Air Force Base (AFB), California. The USTI Report consists of six volumes. Volume I provides background information on Edwards AFB and the USTI. Volumes II through V present the results of the sampling and analysis performed, and the results obtained. Volume VI contains the appendices. The USTI was performed to accomplish the following objectives for the underground storage tanks (USTs) and their associated facilities:

- Removal of USTs and limited soil sampling beneath them to evaluate possible contamination from leaks
- Compliance with applicable federal, state, and local regulations
- Provide recommendations, based on Kern County Environmental Health Services Department guidance document UT-35 (KCEHSD, 1990a), for each UST site consisting of UST site closure, further site characterization, or site remediation.

A total of 193 USTs were removed and four USTs were abandoned-in-place. One hundred seventeen of these USTs have been closed to further investigation by the Kern County Environmental Health Services Department. A total of 56 tank sites are recommended for either remedial activity or site characterization, and 24 sites are recommended for closure.

A UST index consisting of the USTs investigated by Earth Tech and their associated facilities has been provided to assist the reader in finding a particular UST when the facility number is not known. The following describes the UST Index.

The first column is the unique, four-digit, alpha-numeric identification number assigned to each UST on base. The first character in this number is always a letter, and the letter designates the quadrant in which the UST is located. See Section 2.0 for location of quadrants. Thus, tanks whose identification numbers start with an "M" are located in the Main Base quadrant and are listed first followed by the "N" USTs in the North Base quadrant, the "P" USTs in the Phillips Laboratory quadrant, and the "S" USTs in the South Base quadrant. In addition to UST numbers, tanks are also generally associated with a building or other facility, and often are identified by that facility number. The associated facility number for each UST is

in the second column of the index. Thus all of the lists in the UST Index include both a UST number and facility number. A more complete inventory of the USTs has been issued as a separate report in December 1996 (Earth Tech, 1996). Columns three through six contain for each UST the associated operating permit, operable unit, site/potential release location number, and map sheet number.

UST INDEX

	UST Number	Facility Number	Operating Permit No.	Operable Unit	Site/PRL No.	Map Sheet Number
1	M001	1020	570045C	OU01	PRL 377	188
2	M002	1209	570131C	OU01	PRL 343	161
3	M003	1209	570131C	OU01	PRL 343	161
4	M007	1604	570134C	OU01	Site 17	162
5	M008	1608	570130C	OU01		162
6	M009	1616	570082C	OU01	PRL 49	162
7	M015	1724	570059C	OU01	Site 11	135
8	M021	2340	570069C	OU08	Site 298	134
9	M022	2450	570077C	OU08	Site 299	134
10	M024	3510	570087C	OU8	Site 224	134
11	M026	3800	570021C	OU01	Site 23	135
12	M031	4790	570152C	OU07	PRL 368	52
13	M036	4910	570067C	OU08	PRL 352	107
14	M037	5506	570103C	OU07	PRL 258	159
15	M039	5780	570071C	OU07	Site 260	238
16	M040	2110	570058C	OU08	Site 297	161
17	M041	3510	570087C	OU8	Site 224	134
18	M046	1430	570060C	OU01	Site 45	161
19	M047	1430	570060C	OU01	Site 45	161
20	M053	5779	570102C	OU07	PRL 353	238
21	M054	2860	570095C	OU01	Site 59	162
22	M056	1505	570081C	OU02	PRL 223	163
23	M057	3500	570122C	OU08	PRL 347	134
24	M058	3503	570105C	OU08	PRL 347	134
25	M059	1399	570117C	OU01	Site 17	162
26	M062	1618	570082C	OU01	PRL 49	162
27	M064	1899	570044C	OU01	Site 66	135
28	M065	1899	570044C	OU01	Site 66	135
29	M067	3512	570136C	OU08	Site 255	134
30	M068	3512	570136C	OU08	Site 225	134
31	M069	3800	570021C	OU01	Site 23	135
32	M070	3800	570021C	OU01	Site 23	135
33	M071	3800	570021C	OU01	Site 23	135
34	M072	3800	570021C	OU01	Site 23	135
35	M073	3800	570021C	OU01	Site 23	135
36	M074	3800	570021C	OU01	Site 23	135
37	M075	3800	570021C	OU01	Site 23	135
38	M077	5500	570104C	OU07	PRL 258	159
39	M080	1014	570123C	OU01	PRL 342	188
40	M081	1432	570100C	OU01	Site 45	161
41	M082	3804	570092C	OU01	Site 24	135
42	M083	3804	570092C	OU01	Site 24	135
43	M086	1200	570083C	OU01	Site 43	161
44	M091	2649	570106C	OU01	PRL 346	161
45	M092	2649	570106C	OU01	PRL 346	161
46	M093	1824	570046C	OU01	Site 65	135

* Indicates that the facility no longer exists; it was most likely taken down prior to tank removal.

UST INDEX

	UST Number	Facility Number	Operating Permit No.	Operable Unit	Site/PRL No.	Map Sheet Number
47	M094	1824	570046C	OU01	Site 65	135
48	M095	1824	570046C	OU01	Site 65	135
49	M096	1824	570046C	OU01	Site 65	135
50	M099	1899	570044C	OU01	Site 66	135
51	M102	2601	570107C	OU01	PRL 345	161
52	M103	4972	570098C	OU08	PRL 306	107
53	M105	1425	570091C	OU01	Site 17	162
54	M106	1425	570091C	OU01	Site 17	162
55	M109	1862	570120C	OU01	Site 20	108
56	M110	1862	570120C	OU01	Site 20	108
57	M111	1720	570101C	OU01	Site 52	162
58	M113	3510	570087C	OU8	Site 224	134
59	M114	1430	570060C	OU01	Site 45	161
60	M119	1401	570041C	OU01	Site 17	162
61	M120	1401	570041C	OU01	Site 17	162
62	M121	3804	570092C	OU01	Site 24	135
63	M125	4919B	570153C	OU08	PRL 303	107
64	M138	7992	570204C	OU07	PRL 398	105
65	M139	2506	570220C	OU08	PRL 419	161
66	M140	7990	570204C	OU07	PRL 261	105
67	M141	7992	570204C	OU07	PRL 398	105
68	N001	4505	570062C	OU10	PRL 241	28
69	N002	4505	570062C	OU10	PRL 241	28
70	N005	4305	570072C	OU10	Site 229	28
71	N008	4401	570063C	OU10	Site 236	28
72	N009	4401	570063C	OU10	PRL 235	28
73	N010	4402	570064C	OU10	Site 238	28
74	N012	4505	570062C	OU10	PRL 241	28
75	N018	4214	570012C	OU05	PRL 350	27
76	N019	4231	570208C	OU05	Site 289	27
77	N021	4389	570203C	OU10	PRL 234	54
78	N022	4515	570008C	OU10	PRL 244	28
79	N023	4235	570206C	OU05	Site 284	12
80	N024	4422*	570219C	OU10	PRL 251	28
81	N025	4422*	570219C	OU10	PRL 251	28
82	N026	4275*	570209C	OU05	PRL 201	12
83	N028	4283	570211C	OU05	PRL 286	12
84	N048	4233	570205C	OU05	PRL 196	12
85	N049	4234	570209C	OU05	PRL 197	12
86	N053	4317	570217C	OU10	PRL 255	28
87	N054	4353*	570164C	OU10	PRL 250	28
88	N055	4354*	570178C	OU10	PRL 249	28
89	N056	4403*	570063C	OU10	PRL 403	28
90	N057	4419*	570218C	OU10	PRL 253	28
91	N061	4505	570062C	OU10	PRL 370	28
92	N062	4420*	570219C	OU10	PRL 251	28

* Indicates that the facility no longer exists; it was most likely taken down prior to tank removal.

UST INDEX

	UST Number	Facility Number	Operating Permit No.	Operable Unit	Site/PRL No.	Map Sheet Number
93	N069	4241	570212C	OU05	Site 285	12
94	N070	4243	570212C	OU05	PRL 200	12
95	N071	4284	570211C	OU05	PRL 202	12
96	N073	4286	570213C	OU05	PRL 203	12
97	N074	4422*	570219C	OU10	PRL 251	28
98	N075	4453*	570230C	OU10		28
99	N078	4232	570207C	OU05	PRL 195	27
100	N079	4236	570205C	OU05	PRL 198	12
101	N080	4237	570206C	OU05	PRL 199	12
102	N082	4282	570210C	OU05	PRL 283	27
103	N083	4234	570209C	OU05	PRL 197	12
104	N084	4234	570209C	OU05	PRL 197	12
105	N085	4245	570214C	OU05		12
106	N086	4260	570215C	OU05		12
107	N087	4267	570216C	OU05		12
108	N088	4233	570205C	OU05	PRL 196	12
109	N089	4217	570225C	OU05	PRL 369	12
110	N091	4403*	570063C	OU10	PRL 403	28
111	P002	8255	570035C	OU04	Site 145	143
112	P005	8352	570026C	OU04	Site 37	143
113	P015	8423	570055C	OU04	PRL 357	143
114	P017	8431	570017C	OU04	Site 151	144
115	P019	8451	570074C	OU04	Site 185	143
116	P023	8620	570018C	OU04	Site 143	143
117	P025	8901	570028C	OU09	PRL 183	117
118	P026	8240*	570140C	OU04	PRL 184	143
119	P027	8240*	570140C	OU04	PRL 184	143
120	P028	8680	570148C	OU04	PRL 361	116
121	P029	8702	570094C	OU04	PRL 147	143
122	P031	8410	570139C	OU04	PRL 356	143
123	P034	8950	570027C	OU09	PRL 362	91
124	P035	8953	570039C	OU09	PRL 376	91
125	P036	8955	570025C	OU09	PRL 305	91
126	P037	8423	570055C	OU04	PRL 405	143
127	P038	9428	570020C	OU09	PRL 360	198
128	P039	8902	570024C	OU09	PRL 183	117
129	P040	8635	570019C	OU04	Site 143	143
130	P047	EAST	570227C	OU07	PRL 268	167
131	P049	PIRA	570226C	OU07	PRL 271	196
132	P050	8354	570032C	OU04	PRL 354	143
133	P051	8581	570138C	OU04	PRL 139	143
134	P053	8359	570125C	OU04	Site 145	143
135	P054	8475	570031C	OU04	Site 144	144
136	P055	8374	570146C	OU04	PRL 355	143
137	P056	8377	570150C	OU04	PRL 404	143
138	P057	8475	570031C	OU04	Site 144	144

* Indicates that the facility no longer exists; it was most likely taken down prior to tank removal.

UST INDEX

	UST Number	Facility Number	Operating Permit No.	Operable Unit	Site/PRL No.	Map Sheet Number
139	P058	8525	570147C	OU04	PRL 359	143
140	P059	8406	570052C	OU04	Site 146	143
141	P060	8407	570053C	OU04	PRL 356	143
142	P061	8525	570147C	OU04	PRL 359	143
143	P062	8424	570056C	OU04	PRL 358	143
144	P064	8451	570079C	OU04	Site 185	143
145	P065	8411	570051C	OU04	PRL 356	143
146	P066	8020	570143C	OU07	PRL 262	140
147	P067	8025	570144C	OU07	PRL 263	140
148	P069	8431	570017C	OU04	Site 151	144
149	P070	8240*	570140C	OU04	Site 166	143
150	P071	8035	570145C	OU07	PRL 265	60
151	P072	8030	570149C	OU07	PRL 264	60
152	P073	8650	570137C	OU04	PRL 336	116
153	P074	8657	570151C	OU04	PRL 407	143
154	P075	8702	570094C	OU04	PRL 147	143
155	P076	8359	570125C	OU04	Site 145	143
156	P077	8424	570056C	OU04	PRL 358	143
157	P081	ARCS	570229C	OU07		246
158	S001	0181	570065C	OU02	PRL 94	190
159	S002	0182	570066C	OU02	PRL 94	190
160	S003	0204	570070C	OU02	PRL 94	190
161	S004	0300	570135C	OU02	PRL 82	190
162	S006	0300	570135C	OU02	PRL 82	190
163	S007	0310	570135C	OU02	PRL 82	190
164	S008	0310	570135C	OU02	PRL 82	190
165	S012	0369	570068C	OU02	PRL 80	190
166	S013	0512	570132C	OU02	PRL 408	351
167	S014	0668	570086C	OU02	PRL 221	216
168	S015	0791	570084C	OU02	PRL 108	242
169	S019	0181	570065C	OU02	PRL 94	190
170	S031	0137*	570196C	OU02	PRL 22	189
171	S039	0181	570065C	OU02	PRL 94	190
172	S084	0273	570118C	OU02	Site 14	217
173	S122	0301*	570170C	OU02	PRL 71	189
174	S134	0324*	570167C	OU02	PRL 88	189
175	S135	0325*	570167C	OU02	PRL 88	189
176	S136	0329*	570168C	OU02	PRL 88	189
177	S141	0402*	570161C	OU02	PRL 92	190
178	S142	0402*	570161C	OU02	PRL 92	190
179	S143	0407*	570162C	OU02	PRL 92	190
180	S144	0407*	570162C	OU02	PRL 92	190
181	S145	0408*	570162C	OU02	PRL 92	190
182	S146	0408*	570162C	OU02	PRL 92	190
183	S165	0940*	570156C	OU02	Site 5	189
184	S166	0940*	570156C	OU02	Site 5	189

* Indicates that the facility no longer exists; it was most likely taken down prior to tank removal.

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	UST Number	Facility Number	Operating Permit No.	Operable Unit	Site/PRL No.	Map Sheet Number
185	S167	0940*	570156C	OU02	Site 5	189
186	S168	0940*	570156C	OU02	Site 5	189
187	S169	0940*	570156C	OU02	Site 5	189
188	S170	0948*	570169C	OU02	PRL 70	189
189	S173	1668*	570171C	OU02	PRL 90	190
190	S174	1768*	570171C	OU02	PRL 90	190
191	S175	1868*	570172C	OU02	PRL 90	190
192	S176	1968*	570172C	OU02	PRL 90	190
193	S178	2005*	570173C	OU02	PRL 91	190
194	S179	2009*	570173C	OU02	PRL 91	190
195	S180	2013*	570173C	OU02	PRL 91	190
196	S182	2700*	570202C	OU02	PRL 91	190
197	S183	2802*	570174C	OU02	PRL 89	189
198	S184	2803*	570174C	OU02	PRL 89	189
199	S185	2902*	570174C	OU02	PRL 89	189
200	S191	0173*	570160C	OU02	Site 5	189
201	S192	0173*	570160C	OU02	Site 5	189
202	S193	0173*	570160C	OU02	Site 5	189
203	S194	0173*	570160C	OU02	Site 5	189
204	S195	0173*	570160C	OU02	Site 5	189
205	S196	0112*	570157C	OU02	Site 5	189
206	S197	0112*	570157C	OU02	Site 5	189
207	S198	0112*	570157C	OU02	Site 5	189
208	S199	0112*	570157C	OU02	Site 5	189
209	S200	0112*	570157C	OU02	Site 5	189
210	S201	0112*	570157C	OU02	Site 5	189
211	S202	0148*	570159C	OU02	Site 5	189
212	S203	0148*	570159C	OU02	Site 5	189
213	S204	0148*	570159C	OU02	Site 5	189
214	S205	0148*	570159C	OU02	Site 5	189
215	S206	0149*	570158C	OU02	Site 5	189
216	S207	0149*	570158C	OU02	Site 5	189
217	S218	3203*	570175C	OU02	PRL 88	189
218	S219	3203*	570175C	OU02	PRL 88	189
219	S220	3103*	570175C	OU02	PRL 88	189
220	S221	3203*	570200C	OU02	PRL 88	189
221	S223	2903*	570165C	OU02	PRL 89	189
222	S224	2803*	570174C	OU02	PRL 89	189
223	S225	0805*	570198C	OU02	PRL 97	216
224	S226	0805*	570198C	OU02	PRL 97	216
225	S228	0148*	570159C	OU02	Site 5	189
226	S229	0148*	570159C	OU02	Site 5	189
227	S230	1601*	570165C	OU02	PRL 89	189
228	S231	1700*	570165C	OU02	PRL 89	189
229	S232	1502	570199C	OU02	PRL 219	163
230	S233	0816*	570188C	OU02	PRL 95	216

* Indicates that the facility no longer exists; it was most likely taken down prior to tank removal.

UST INDEX

	UST Number	Facility Number	Operating Permit No.	Operable Unit	Site/PRL No.	Map Sheet Number
231	S234	0154*	570197C	OU02	PRL 220	243
232	S236	1939*	570166C	OU02	PRL 92	190
233	S237	1839*	570166C	OU02	PRL 92	190
234	S238	0148*	570159C	OU02	Site 5	189
235	S239	2004*	570201C	OU02	PRL 76	190

* Indicates that the facility no longer exists; it was most likely taken down prior to tank removal.

1.0 INTRODUCTION

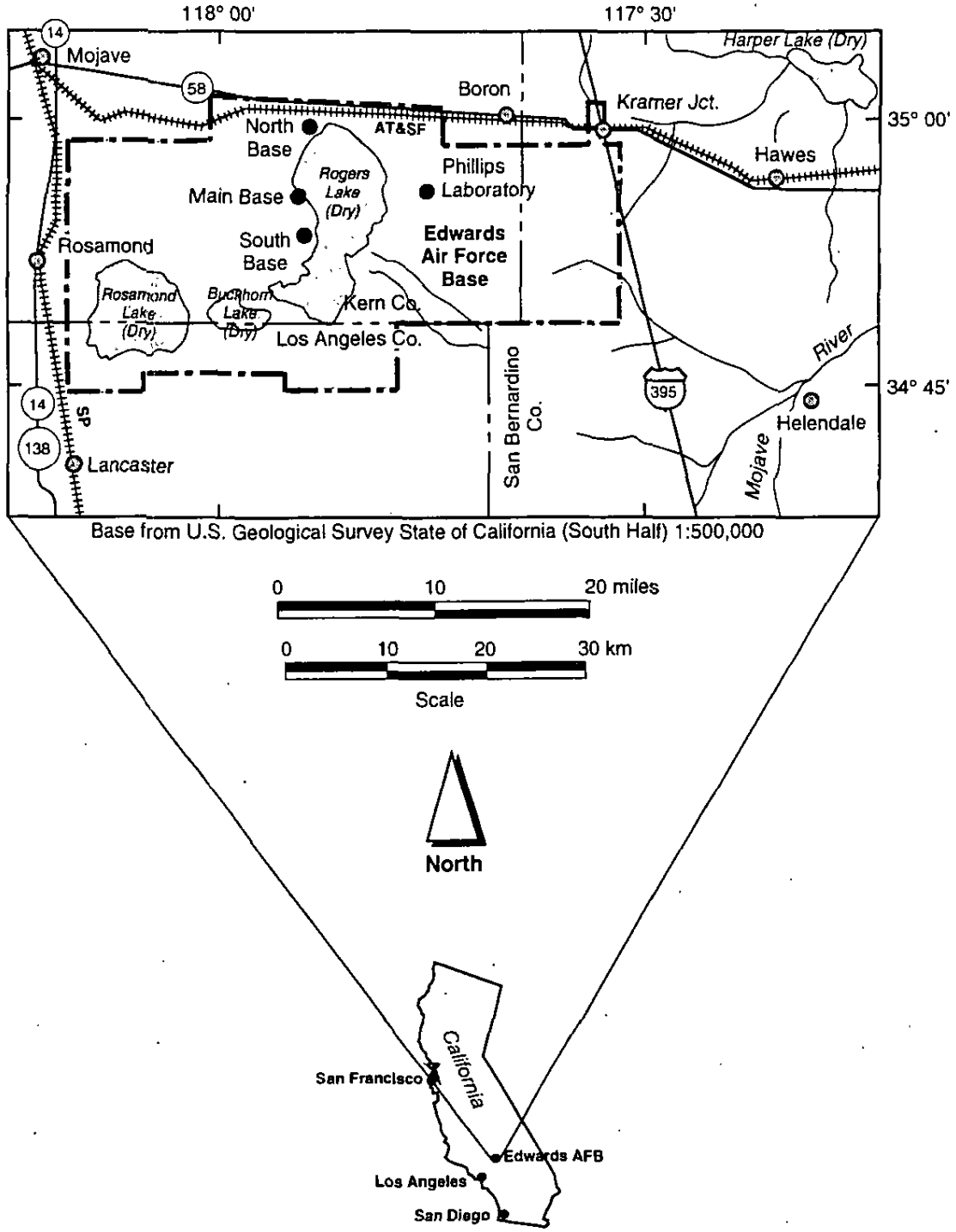
This document is the Technical Report for the Underground Storage Tank Investigation (USTI) at Edwards Air Force Base (AFB), California (Figure 1-1). The USTI was executed as a base-wide program under the U.S. Air Force Installation Restoration Program (IRP) with direction from the Air Force Flight Test Center/Environmental Management Directorate (AFFTC/EM) at Edwards AFB. The objectives of the USTI were to accomplish the following:

- Remove underground storage tanks (USTs) and perform limited soil sampling beneath them to evaluate possible contamination from leaks
- Comply with applicable federal, state, and local regulations regarding UST closure
- Provide recommendations for each UST site consisting of UST site closure, further site characterization, or site remediation.

This report contains details of the removal, sampling, and analytical results for UST(s) at individual facilities associated with Edwards AFB. The significance of the results is discussed for each facility, and based on these results, recommendations for the next phase are presented. This report is intended to be a "living document" (updated as necessary) that can easily incorporate new discussions of UST removal results as they become available for additional facilities.

The USTI has been conducted in three phases, each performed under a different contract. The current report presents results of Phases II and III (Parts 1 and 2). The phases and contracts are as follows:

- **Phase I.** This phase was performed under a contract with the Environmental Management Operations (EMO) program of the Battelle Memorial Institute. This contract was authorized under U.S. Department of Energy (DOE) Contract DE-AC06-76RLO-1830. Field work took place between March 1991 and June 1991. Thirty-seven USTs were removed, and soil samples collected and analyzed from locations in Main Base and Phillips Laboratory
- **Phase II.** This phase was performed under Contract F33615-90-D-4007 for the Air Force Center for Environmental Excellence/Environmental Restoration Division (AFCEE/ERD). Field work was performed from April 1992 through February 1995. A total of 128 USTs



USTI Report	**Reference Map**	
Date 2-97	Edwards AFB	Figure 1-1
Project No. 11226		

11226.0808

were removed and soil samples were collected from Main Base, North Base, South Base, and Phillips Laboratory. An additional 19 USTs were not found during excavation, but the locations were sampled because evidence found in the excavation suggested the former presence of a UST. Three other USTs not removed were abandoned-in-place, and due to space constraints, no samples were collected. Forty-nine suspected UST locations were excavated with no evidence of a UST encountered, and no soil samples were collected

- **Phase III.** This phase (Parts 1 and 2) was performed under contract with the Hazardous Waste Remedial Actions Program (HAZWRAP) of Lockheed Martin Energy Systems. This contract was authorized under U.S. DOE Contract DE-AC05-84OR21400. Field work was performed from June 1995 through February 1997. Forty-six USTs were removed and soil samples collected from locations in Phillips Laboratory, North Base and South Base. In addition, six USTs were not found during excavations, but the locations were sampled because evidence found in the excavation suggested the former presence of a UST. Nine suspected UST locations were excavated, with no evidence of a UST encountered, and no samples were collected. One UST was abandoned-in-place at Main Base.

Phase I of the USTI began in 1991 with the removal of 37 USTs, which were identified as the higher priority sites to be investigated. A technical report has already been prepared for Phase I of the USTI (Earth Tech, 1992a). Therefore, this report only presents results of Phase II and III investigations, and any further reports as they become available with Phase I data incorporated only if it is pertinent to those USTs.

The program was then expanded to include an extensive literature, drawing, and map search. Portions of the records search included information gathered during other IRP investigations, past and present, at Edwards AFB (see Appendix A2). The records search was followed by field reconnaissance efforts (Appendix A2) and geophysical surveys (Earth Tech, 1997) to verify locations of USTs to be included in a comprehensive Edwards AFB UST inventory. The USTI also included investigations of an additional 288 USTs by either excavation and removal of the tank, or excavation and verification that a tank had been previously removed. In either case, soil samples were collected beneath the UST location to evaluate potential contamination due to leakage. Soil samples were analyzed for constituents related to the contents of the tank, i.e., diesel fuel, jet fuel, gasoline, and others, in order to assess whether or not a tank had leaked. If no tank was found, nor any evidence that a UST had been located in the excavation, then no soil samples were collected.

1.1 REPORT ORGANIZATION

This report has been prepared with guidance presented in the Handbook to Support the Installation Restoration Program (IRP) Statements of Work (U.S. Air Force, 1989a), prepared by the IRP Division Staff of the Air Force Human Systems Division, Brooks Air Force, Base, Texas.

The report is organized in five sections of text and six appendices that are contained in six volumes. An Executive Summary provides an overview of the USTI project and some general results. Section 1.0 includes a report description (see introduction), the project activities conducted as part of the USTI, and the Edwards AFB history and setting. Section 2.0 provides a project summary. Section 3.0 contains the references for Sections 1.0 and 2.0 only. The Executive Summary and the first three sections are contained in Volume I.

Section 4.0 contains subsections for each of the four quadrants of Edwards AFB (e.g., South Base). Each subsection of Section 4.0 includes summary reports of USTI activities for facilities and their associated USTs. Each summary report presents the results of the USTI at each UST site, including: a description of the UST site and its associated facility; physical characteristics of the site; previous field activities that may contain a discussion of the nature and extent of vadose zone and groundwater contamination; UST removal and analytical results; conclusions; recommendations; and references for each facility subsection. Because this Technical Report is intended to be a "living document" that will be updated, these summary reports will be identified by, and ordered by facility number in order to insert new reports in sequential order as they become available. The four primary subsections, one for each tank series, are contained in separate volumes, thus the facility reports for the South Base (Volume II), Main Base (Volume III), North Base (Volume IV) and Phillips Laboratory (Volume V) are found in the appropriate volume.

There are six appendices (A1, A2, and B through E) providing cross-reference lists (Appendix A1) literature survey and field reconnaissance dates (Appendix A2), field data (Appendix B), Kern County documents (Appendices C and D), and tracking documentation (Appendix E). These are listed in the table of contents, and located in Volume VI.

1.2 EDWARDS AIR FORCE BASE HISTORY

Edwards AFB is located approximately 60 miles northeast of Los Angeles at the western edge of the Mojave Desert (Figure 1-1). The base occupies 470 square miles of high desert, including all of Rogers and Rosamond dry lake beds and lies within three counties. Most of the base, including the majority of the developed areas, is located within Kern County. The far eastern portion of the base is within San Bernardino County, and some of the southwestern portion is within Los Angeles County.

Prior to military use, the areas in and around Edwards AFB were used for ranching, agriculture, and mining. Homesteaders, who mostly pursued agriculture and ranching, arrived with the Southern Pacific Railroad in the 1880s.

The Edwards AFB area was first used by the military in 1933, when the Army Air Corps established the Muroc Bombing and Gunnery Range, known as East Camp, on the eastern shore of Rogers Dry Lake. In the early 1940s, the troops were moved across the lake to the area currently known as South Base. During World War II, the Army Air Corps used the range east of Rogers Dry Lake to train fighter pilots and bomber crews using both live and inert ordnance. By 1946, all activities were merged into the South Base area to form the Muroc Army Airfield under the Air Materiel Command. Muroc Army Airfield supported aircraft research and development projects as well as training facilities for bomber squadrons. In 1948, the base became a U.S. Air Force facility, and a year later its name was changed from Muroc Air Force Base to Edwards Air Force Base. The Air Force Flight Test Center (AFFTC) was established in 1951. Most of the structures at the former Muroc Army Airfield (now South Base) were demolished or moved to the newly constructed Main Base from 1952 to 1956. In 1961, the AFFTC was reorganized under the Air Force Systems Command. In 1993, the Air Force Systems and Logistics Commands were reorganized into the Air Force Materiel Command. The Air Force Materiel Command hosts the following major associated organizations:

- Phillips Laboratory, formerly the Astronautics Laboratory (AL) and the U. S. Air Force Rocket Propulsion Laboratory (AFRPL), commonly referred to as the Rocket Laboratory
- National Aeronautics and Space Administration (NASA) Dryden flight Research Facility. In affiliation with NASA, Edwards AFB was the primary landing site for NASA space shuttle flights
- The Jet Propulsion Laboratory (JPL) Facility for the development and testing of propellants for rocket engines.

The Main Base has been and is still used primarily for aircraft research, development, and testing programs. To support these programs, Main Base hangars and shops are equipped for maintenance, repair, rebuilding, and testing of engines, aircraft, and associated systems. In addition to aircraft test-related structures, the Main Base includes the base housing areas, recreational facilities, commercial facilities, a hospital, administration buildings, landfills, and physical plant maintenance facilities.

Since the 1950s, hazardous chemicals including petroleum products, cleaning solvents, paints, and other chemicals have been used at Main Base as required for aircraft testing, maintenance, and associated activities. Petroleum products were transported by subsurface JP-4 pipelines and stored in various aboveground storage tanks (ASTs) and USTs. Petroleum fuels were used for aircraft, ground vehicles, aircraft engine testing, and the heating of buildings. Solvents, including tetrachloroethylene (PCE) and trichloroethylene (TCE), were widely used for degreasing engine parts and general cleaning. Typically, solvents were used in dip tanks, vapor degreasers, for aircraft cleaning operations on runway aprons, and for flushing rocket engines after test firings. In addition, various other chemicals were used in painting and stripping operations and plating.

South Base, which was the original location of the Muroc Army Airfield, was the center of base activity from the early 1940s to mid-1950s. During this time, the facilities at South Base consisted of numerous airplane hangars, service bays, runway aprons, a boiler facility, and USTs containing jet fuel, MOGAS (motor gasoline), and heating fuel. Activities associated with the X-1 and X-2 rocket plane program may have involved the use of degreasers and solvents such as TCE. When base operations were moved in the 1950s to the current Main Base area, most of the old South Base structures were either abandoned or demolished. In the mid-1980s, the operations area of South Base was reactivated with the construction of the Test Support Facility now known as the Birk Flight Test Facility, where research and testing activities are conducted.

The North Base area included the facilities at the old North Base and the Jet Propulsion Laboratory Edwards Facility (JPL Facility). The old North Base consists of facilities built up between 1942 and 1945, as part of the original Muroc Flight Test Base, many of which have since been abandoned and/or demolished. Most of the buildings were support and housing structures, including an old and still active sewage treatment plant. The housing structures included several barracks and officers' quarters with associated USTs that stored heating oil for boilers. Other buildings at the old North Base included hangars which were also heated with heating oil powered boilers. After the 412th Air Squadron moved from old North Base to South Base in 1946, some of the original support buildings were converted to office space in the early 1950s. As Test Base operations were reduced in the 1960s, a smaller support staff was needed and many of the facilities were demolished.

The JPL Facility, formerly the JPL Edwards Test Station, is located in the North Base area of Edwards AFB. It has been in existence since 1945, and consists of 68 buildings on 571 acres. The facility has been used

primarily for the development and testing of both solid and liquid propellants for rocket motors and engines. Hazardous waste generating activities at the JPL Facility include mainly the storage, preparation, and testing of solid and liquid propellants; the use of solvents for cleaning and maintenance; and fuel storage in USTs. The JPL Facility is comprised of four sectors: the Office and Maintenance Structures Sector, the Liquid Propellant Sector, the Solid Propellant Sector, and the Outer Perimeter Sector.

The Phillips Laboratory is located in the northeastern portion of Edwards AFB (refer to Figure 1-1). It includes test areas on Leuhman Ridge, the major support facilities clustered southeast of the ridge, and test areas along Mars Boulevard. The Phillips Laboratory is headquartered at Kirkland AFB, New Mexico, and named in honor of space technology pioneer General Samuel G. Phillips. Construction of numerous rocket motors and engine test stands (most of which have been demolished) on the northern side of Leuhman Ridge began in 1952. Rocket systems such as Titan, Atlas, Saturn, and Minuteman were tested and evaluated between the 1950s and 1970s. The full-scale motors and engines, fueled by liquid propellants, were generally oriented vertically so that their exhaust and other waste products discharged downward, simulating launch conditions. During the tests, the rocket exhaust was cooled by several thousand gallons of water, which at some test locations was allowed to discharge into arroyos on the northern side of Leuhman Ridge.

The Phillips Laboratory is currently used for manufacturing and testing solid propellant rocket motors. Some liquid propellant (e.g., hydrazine and RP-1) rocket engines are also tested, and long-term storage tests on liquid and solid propellants are ongoing. One old test stand, still active, was used as recently as September 1993 for testing Titan solid propellant motors, another is being renovated for future tests using liquid hydrogen, and a third is used for liquid propellant engines. There are a number of support facilities for the assembly, repair, maintenance, and testing of equipment. Several support facilities use USTs to store fuel to heat the buildings or to run emergency back-up generators.

1.3 ENVIRONMENTAL SETTING

This section provides an overview of the environmental setting for Edwards AFB.

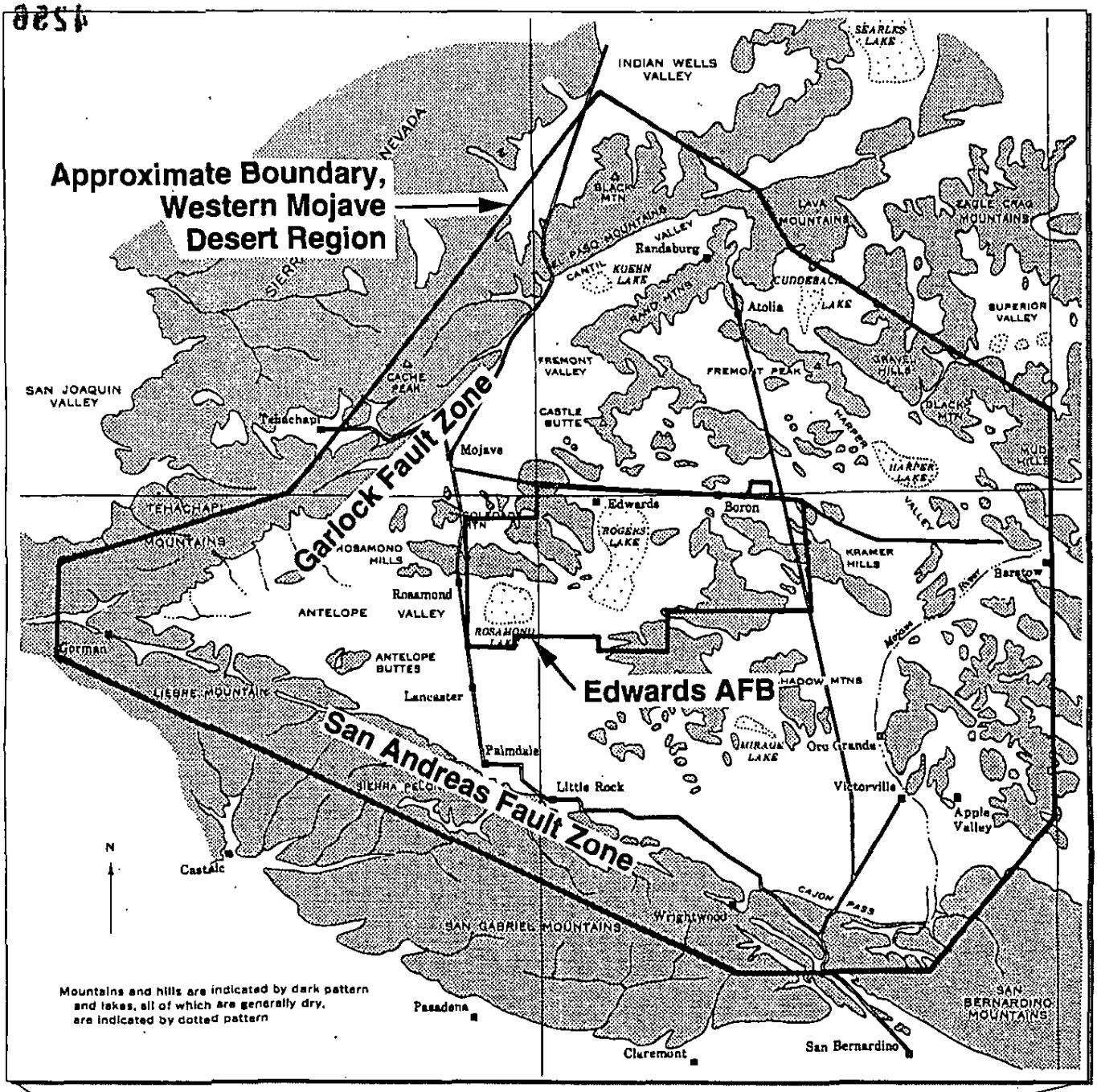
1.3.1 Physiography

Edwards AFB is situated almost entirely within the Antelope Valley, which is in the western portion of the Mojave Desert (Figure 1-2) and is part of the Basin and Range Physiographic Province (Fenneman, 1931). The western Mojave Desert is a wedge-shaped area of high desert bordered by the San Gabriel Mountains to the southwest and the Tehachapi Mountains to the northwest. Its eastern boundary is less prominent, ending in the highlands east of the Mojave River. The Antelope Valley is a closed topographic basin that encompasses a major portion of the western Mojave Desert and is characterized by broad alluvial valleys with surrounding low hills. Seasonal runoff forms ephemeral lakes (playas) at topographic lows along the valley axis. Edwards AFB encompasses two large playas, Rogers and Rosamond dry lakes, and a smaller playa known as Buckhorn Lake. The playas form a dry hard pan surface most of the year, well suited for landing aircraft. Southwest across the San Gabriel Mountains is the heavily populated Los Angeles Basin, and to the southeast is the upper Santa Ana Basin with the cities of San Bernardino and Riverside.

The vicinity of Edwards AFB can be divided into three distinct physiographic areas. The first is an upland area occupying the northwestern corner of the base, north of Rosamond Lake and west of Rogers Dry Lake. This area is characterized by low hills, including the Rosamond and Bissell hills. These hills are gently sloping and not rugged, but accessibility is poor with little development.

The second and largest physiographic area of the base is the lowlands or valley floor, which occupies the central and southwestern parts of the base extending from its southern to northern boundaries. This area includes Rosamond, Buckhorn and Rogers dry lakes and the lands between them. The dry lakes and surrounding lowlands made this an ideal area for aircraft testing, and this area is where primary development has occurred. Rogers Dry Lake is the largest playa; the developed areas of Main Base, South Base, and North Base are located along its edge.

The third physiographic area is east of Rogers Lake, extending from the eastern lakeshore to the eastern boundary of Edwards AFB. This is an uplands area similar to the northwestern corner of the base, except that it includes two prominent relief features, Leuhman Ridge and Haystack Butte. Both of these features are much higher in elevation than any other region of the base. The developed area, the Phillips Laboratory, is located in this physiographic location along with a scattering of isolated facilities.



Source: Dibblee, 1967.

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Western Mojave Desert Region, California

Date 2-97	Edwards AFB	Figure 1-2
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1.3.2 Climatology

The climate at Edwards AFB is characteristic of the arid high desert regions of California with hot, dry summers, and cool, slightly moist winters. Temperatures in summer commonly exceed 100 degrees Fahrenheit, while winter temperatures may drop below freezing (Table 1-1). Variability in diurnal temperatures near 50 degrees Fahrenheit, resulting from the generally low humidity of the desert, are common throughout the year. The frost-free season is quite variable from year to year but ranges on average from 200 days to 250 days.

1.3.2.1 Precipitation. Most cold fronts approaching the area from the Pacific Ocean are depleted of moisture by orographic uplift and subsequent dynamic descent caused by the Tehachapi and Sierra Nevada mountain ranges (Keates, 1987). The mean annual precipitation for the period of 1942 to 1993 is 5.04 inches (U.S. Air Force, 1994). Most precipitation comes as light to moderate rainfall during the winter months. Light snowfalls of an inch or two are common, and, rarely, heavy snowfalls may occur. Thunderstorms occasionally bring brief but heavy rains in late summer. Just prior to May 1991, the area of Edwards AFB experienced 3 years of below average rainfall with totals of 3.79 inches (1988), 1.29 inches (1989), and 1.65 inches (1990). This drought was followed by 1 year of near average rainfall, (6.2 inches for 1991), and 2 years of well above average rainfall, with precipitation totals of 12.07 inches (1992) and 9.13 inches (1993). The months of February 1992 and January 1993 had unusually high precipitation with totals of 4.40 inches and 5.67 inches, respectively. Figure 1-3 graphically shows the annual precipitation from 1943 through 1993.

1.3.2.2 Wind. Strong winds that commonly blow through the Antelope Valley, particularly in the spring and early summer, are beneficial for the flight testing activities associated with Edwards AFB and were an important factor in choosing the location of the base. The prevailing wind direction is from the west to southwest. Nearly all cold fronts that move across the area in the winter months are accompanied or followed by strong westerly winds. Wind velocities up to 40 knots are common, but are usually of short duration (Keates, 1987). During the hot summers, when the wind is calm, micro-cyclonic winds (dust devils) are common and can be very severe. Figure 1-4 shows the annual wind rose for Edwards AFB for the period 1943 to 1984.

TABLE 1-1. CLIMATOLOGICAL DATA FOR EDWARDS AFB

Temperature[a]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Mean temp (°F)	44	48	52	58	66	75	82	80	74	63	51	44	60
Mean max (°F)	57	61	64	72	81	90	98	96	91	79	65	57	74
Mean min (°F)	31	35	39	44	51	59	66	64	57	46	36	31	45
Extreme max (°F)	82	82	87	97	105	112	113	112	109	102	87	84	113
Extreme min (°F)	3	14	17	27	32	40	47	47	34	19	13	7	3
Mean days >100°F	0	0	0	0	0.4	5.2	14.3	11.0	3.7	0.1	0	0	34.7
Mean days <32°F	18.4	11.3	5.0	0.8	0	0	0	0	0	0.8	9.6	19.6	65.4
Mean relative humidity	55	51	48	42	36	32	27	31	35	37	47	53	41
Precipitation[a]													
Mean precipitation (inches)[b]	1.03	0.89	0.89	0.24	0.06	0.04	0.05	0.16	0.16	0.24	0.53	0.73	5.04
Extreme max precipitation	5.67	4.40	5.68	1.76	0.72	0.45	0.45	1.79	1.38	1.94	3.35	4.00	15.51
Mean snowfall (inches)	0.8	T	0.1	T	0	0	0	0	0	0	0.1	0.3	1.3
Surface Wind[a]													
Mean speed (knots)	6	7	9	10	11	11	10	8	7	7	6	6	8
Extreme speed (knots)	53	58	64	52	54	51	51	53	42	45	48	58	64

Location = 34°54'N 117°54'W
Elevation = 2,302 feet
T = Trace
[a] = Based on data from 1943 to 1986 (Keates, 1987)
[b] Based on data from 1942 to 1993 (U.S. Air Force, 1993)

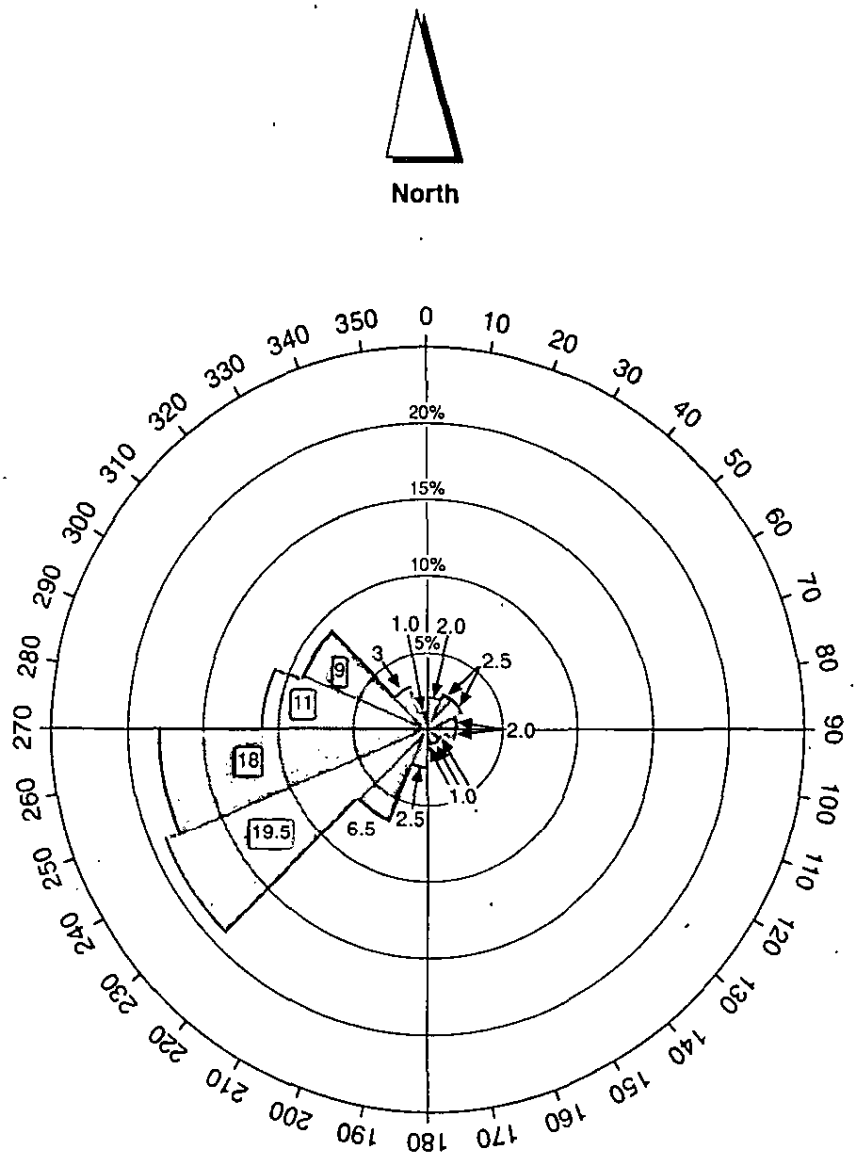
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Annual Average: 5.04 inches
Source: U.S. Air Force, 1994b

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Edwards Air Force Base
Annual Rainfall (1942-1993)

Project No. 11226	Date 2-97
Edwards AFB	Figure 1-3



Source: USAF (1989a)

USTI Report: **Annual Wind Rose For Edwards Air Force Base (1943-1984)**		
Date 2-97	Edwards AFB	Figure 1-4
Project No. 11226		

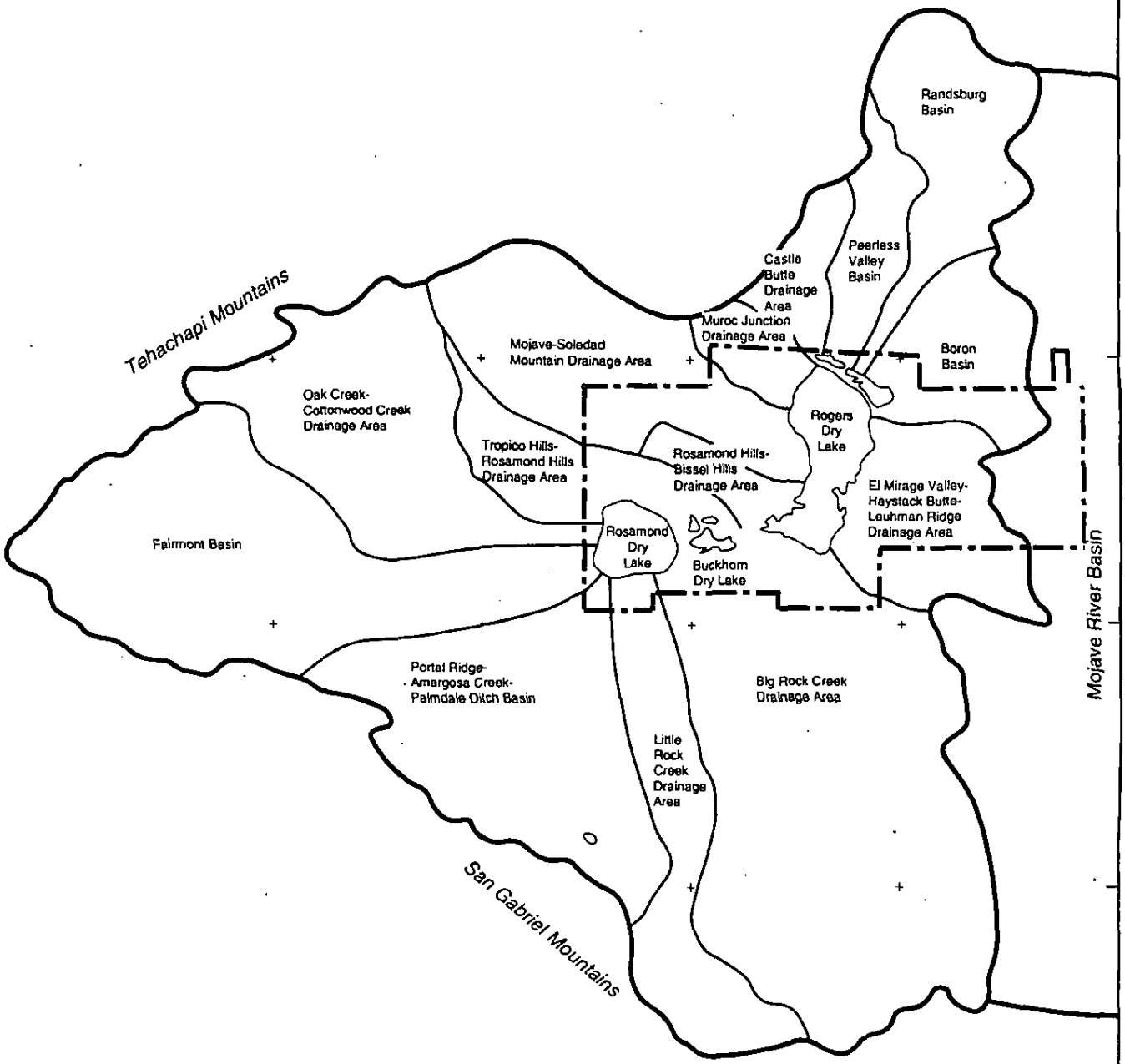
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1.3.2.3 Air Quality. The air quality at Edwards AFB is generally good. The San Gabriel Mountains to the southwest prevent much of the air pollution found in the Los Angeles Basin from migrating into the Antelope Valley. However, with moderate to strong southwesterly winds, air pollutants can migrate through the passes and over the mountains, occasionally reaching the base (Keates, 1987). Temperature inversions and calm wind conditions are also commonplace, trapping air pollutants near the ground. Ozone and total suspended particulate matter within 30 feet of the ground level have occasionally exceeded the state standards of 0.1 parts per million (ppm) and 100 mg/m^3, respectively (U.S. Air Force, 1989b).

1.3.3 Topography and Surface Drainage

The topography of Edwards AFB is characterized by a generally flat, alluvium-filled valley with moderate hills both to the west and east of the valley axis. Rogers Dry Lake, which lies along the valley axis, is the lowest point on the base with an elevation ranging from 2,268 to 2,273 feet above mean sea level (msl). The playas of Rosamond and Buckhorn dry lakes, both within the base boundary, are at elevations of 2,275 and 2,286 feet msl, respectively. The Bissell and Rosamond hills on the western side of the valley have relief on the order of 900 feet, with a maximum elevation of 3,200 feet msl. The hills east of the valley axis are steeper, with relief of 1,100 feet or more and maximum elevations extending over 3,300 feet msl.

Edwards AFB is part of the closed drainage basin that characterizes the Antelope Valley. All drainage within the Antelope Valley eventually flows toward the playas that form along the valley axis (see Figure 1-5). The two principal streams draining into the valley on the northern side of the San Gabriel Mountains are Big Rock Creek and Little Rock Creek. Many smaller streams on the northern side of the San Gabriel Mountains and the southern side of the Tehachapi Mountains also drain into the valley, terminating relatively close to the mountains. Surface runoff from the mountains infrequently reaches the playas, instead losing the majority of water by infiltration into the ground on the broad, permeable slopes of alluvial fans. Water infiltrating in this way is the main source of recharge for the Antelope Valley groundwater basin. The vicinity of Edwards AFB is susceptible to flash flooding from heavy winter rains or summer thunderstorms. Such flows can be torrential as they move from higher elevations and spread out onto alluvial fans. As flow moves down the fan, it typically becomes a broad, shallow sheet flow. The sheet flows may reach the playa surface if large enough,



Explanation

- Antelope Valley Basin Boundary and Western part of Mojave River Basin
- Drainage Subbasin Boundaries
- Edwards AFB Boundary

Sources: Duell, 1987 CDWR, 1967 DMA Consulting Engineers, 1986.

USTI Report	**Antelope Valley Drainage Area Map**	
Date 2-97	Edwards AFB	Figure 1-5
Project No. 11226		

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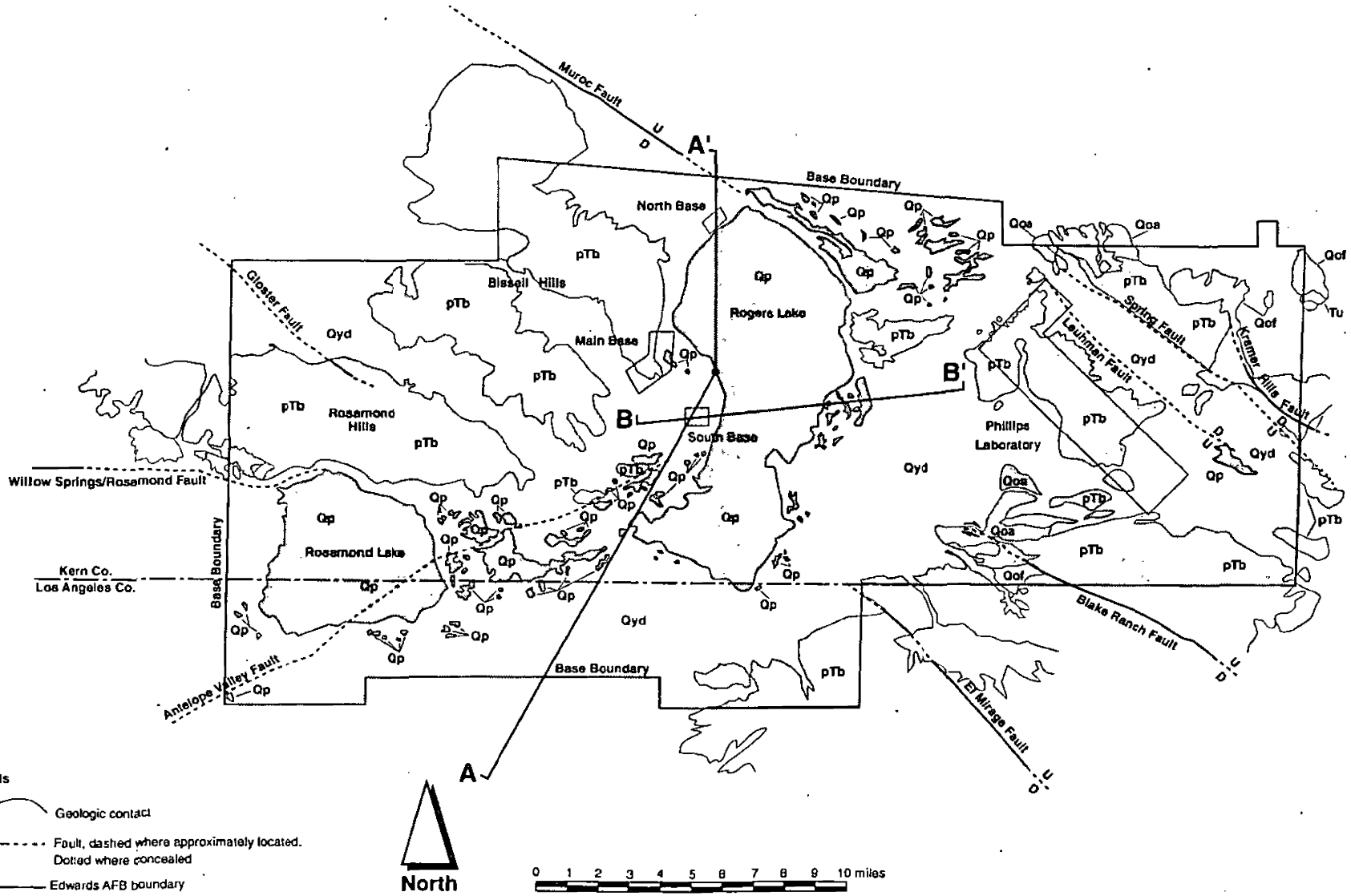
but typically the water is absorbed into the permeable alluvium. In the vicinity of Edwards AFB, thunderstorms intense enough to cause flash floods occur on the average of 5 days per year (U.S. Air Force, 1989b). During very wet years, such as 1993, surface runoff reaches the playas and forms shallow lakes that may persist for several months before eventually evaporating. Normally, during the winter rainy season, precipitation rates and the resultant runoff are not great enough to flood the playas.

1.3.4 Regional Geology

Edwards AFB and its vicinity have been the subject of numerous geologic and hydrogeologic studies by the U.S. Geological Survey (USGS) and others. The following discussion is summarized from the works of Dibblee (1960 and 1967), Dutcher and Worts (1963), and Londquist (1993).

The western Mojave Desert is a great wedge-shaped fault block referred to as the Mojave Block. The two major shear zones of the San Andreas and the Garlock faults bound the block to the southwest and the northwest, respectively (Figure 1-2). The San Andreas Fault is by far the larger, trending to the northwest, and is traceable for at least 600 miles with possible cumulative right-lateral displacement of as much as 350 miles. The Garlock Fault trends to the northeast with left-lateral displacement and can be traced for approximately 150 miles. Many relatively smaller faults occur within the Mojave Block that sub-parallel the major shears of the San Andreas and the Garlock faults. The majority of these smaller faults trend to the northwest with minor right-lateral displacement. Important northwest trending faults in the vicinity of Edwards AFB are the Muroc, Spring, Blake Ranch, El Mirage, Gloster, Leuhman, Spring, and Kramer Hills faults (see Figure 1-6). The Willow Springs/Rosamond Fault is an east trending normal fault. The Antelope Valley Fault is an inferred northeast trending normal fault or fault zone which is covered by unconsolidated sediments. Its inferred presence is based mainly on gravity data. Quaternary displacement at some point along the trace of each exposed fault has been observed (Londquist, 1993). All the major faults in the area eventually extend into alluvial deposits, becoming untraceable. Therefore, the full extent of these faults is unknown.

Several large, sediment-filled structural basins separated by areas of extensively faulted elevated bedrock underlie much of the western Mojave Desert. Crustal extension during Tertiary time, related to formation of the Basin and Range topography to the east, is thought to have formed the basins. Two major basins, the East



Explanation

Valley Fill Deposits

- Qyd — Recent alluvium and dune sand
- Qoa — Older alluvium, fanglomerate, gravel, sand, silt and clay
- Qp — Quaternary playa deposits, clay and silt, thin saline crust in places
- Qof — Older alluvial fan deposits, fanglomerate, unspecified

Bedrock

- Tu — Tertiary, undifferentiated sedimentary and volcanic rock. Includes sandstone conglomerate, shale, lake deposits, volcanic rocks, and tuff-breccia. Yield small quantities of water to wells.
- pTb — Pre-Tertiary basement complex. Quartz monzonite, granite, schist, gneiss, and other metamorphic rocks, undifferentiated. Locally highly fractured along faults. May yield small quantities of water from fractures or where deeply weathered.

From Weston, 1986 and Dibblee, 1967

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Generalized Geologic Map of Edwards AFB

Date 2-97	Edwards AFB	Figure 1-6
Project No. 11226		

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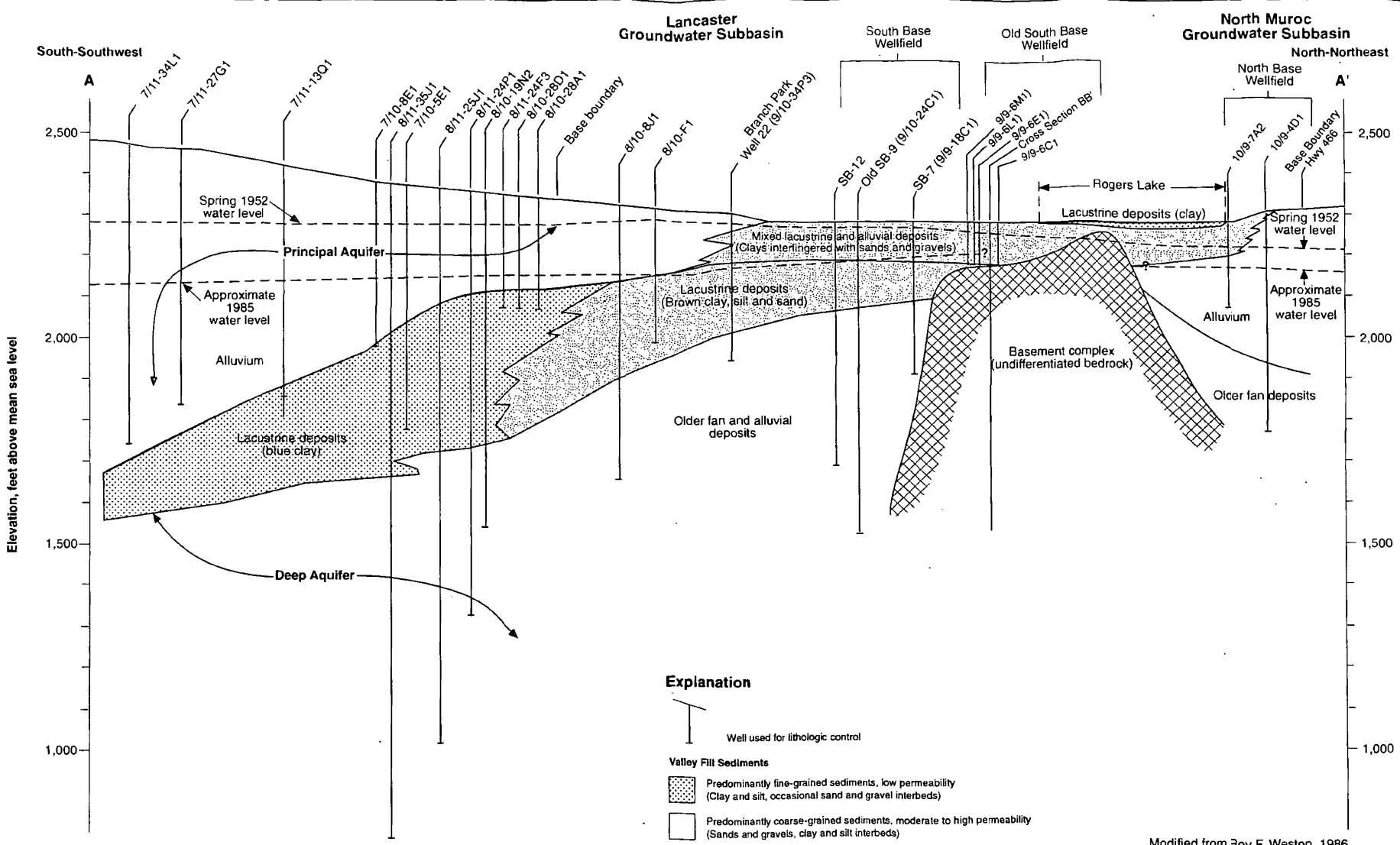
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Antelope and the Kramer basins, underlie the Antelope Valley within the border of Edwards AFB. Borehole and gravity data indicate the depth of fill may be as much as 10,000 feet in the East Antelope Basin. Depths of 5,000 feet for the East Antelope Basin and 2,000 feet for the Kramer Basin are more typical (Londquist, 1993). These sediment-filled structural basins are the host for the extensive groundwater basins within the Antelope Valley. Beneath Rogers Dry Lake, a buried ridge of shallow bedrock extending in a general east-west direction, separates the Kramer and East Antelope structural basins.

The vicinity of Edwards AFB is characterized by three major rock types: a crystalline basement complex of pre-Tertiary age; sedimentary and volcanic rocks of Tertiary age; and unconsolidated sediments of Quaternary age (Figure 1-6). The basement complex underlies the entire area and is mainly composed of plutonic granitic rock of probable Cretaceous age with minor amounts of older metamorphic rocks, existing as pendants overlying the pluton. Outcrops of the basement complex can be seen in the highlands that surround the playa area. The sedimentary and volcanic rocks of Tertiary age have limited exposure at Edwards AFB, but are thought to underlie the unconsolidated sediments at depth within the structural basins. The unconsolidated sediments of Quaternary age, or valley fill deposits, include older fan deposits and older alluvium of Pliocene and Pleistocene age, lacustrine deposits of Pleistocene age, younger fan deposits and younger alluvium of Pleistocene and Recent age, lakeshore deposits and old windblown sand of late Pleistocene and Recent age, and windblown sand of Recent age (Dutcher and Worts, 1963). A thick unit of lacustrine silt and clay has been identified underlying the alluvial valley. This unit dips to the south, outcropping at the surface near the southern portion of Rogers Lake. Cross sections showing the lacustrine unit, alluvial deposits, and basement rock are shown in Figures 1-7 and 1-8.

1.3.4.1 Soil Associations. The U.S. Department of Agriculture (USDA) Soil Conservation Service (SCS) and the University of California Agricultural Experiment Station performed extensive soil studies in and around the area of Edwards AFB. The following discussion briefly summarizes the soils identified in studies near and within Edwards AFB.

In the Soil Survey of Antelope Valley, California (USDA SCS, 1970), six soil associations were identified near the northern and western portions of the base (Figure 1-9). These include the Cajon-Arizo-Alko association, the Cajon association, the Rosamond-DeStazo association, the Norob-Neuralia association, the Randsburg-Muroc association, and the Garlock-Neuralia association.



Note: Cross section location shown on Figure 1-6

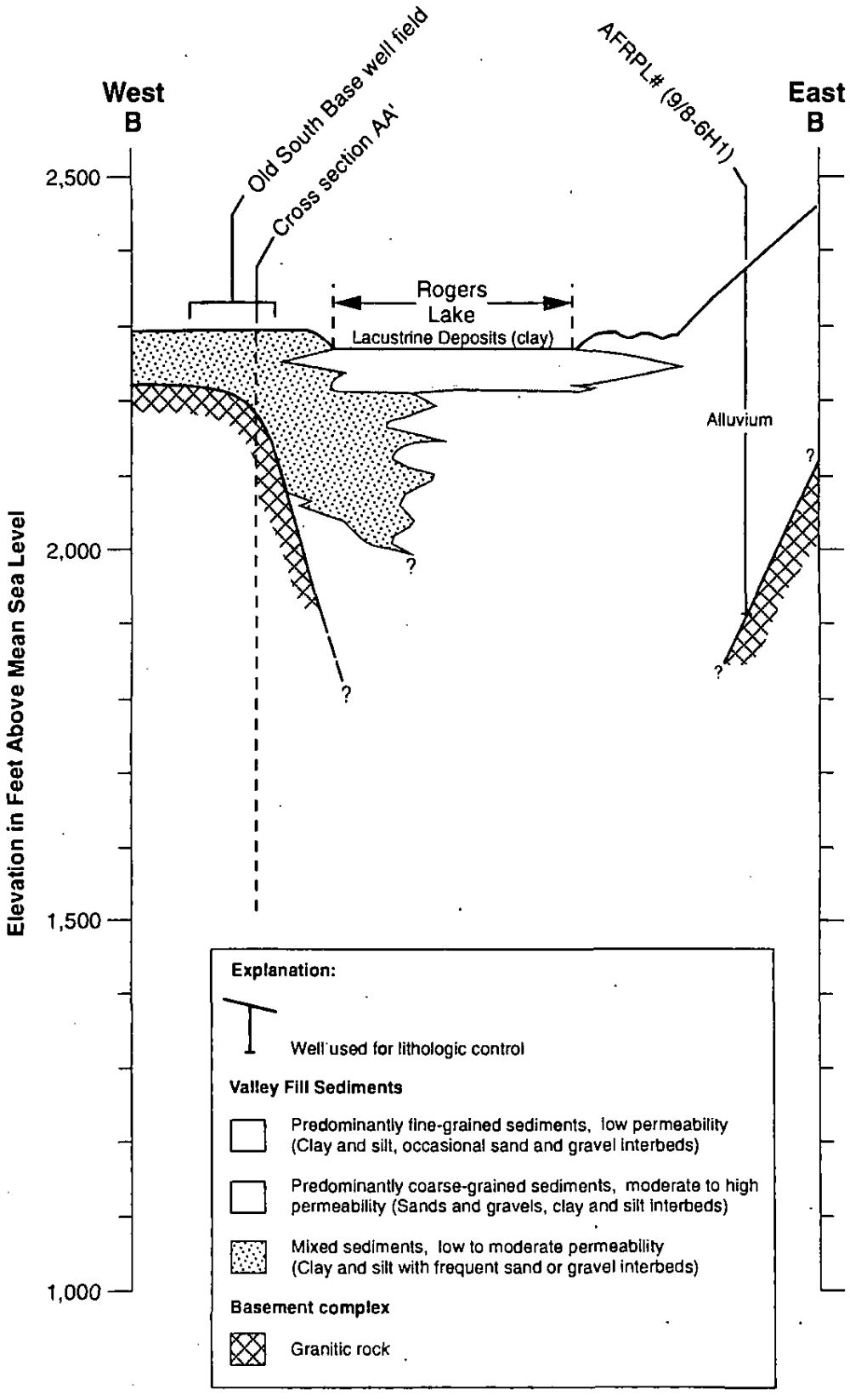
Modified from Roy F. Weston, 1986

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Geologic Cross Section A-A' Edwards AFB

Date 2-97		Figure
Project No. 11226	Edwards AFB	1-7

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Modified from Weston, 1986

0 1 2 3 4 5

Horizontal Scale in Miles

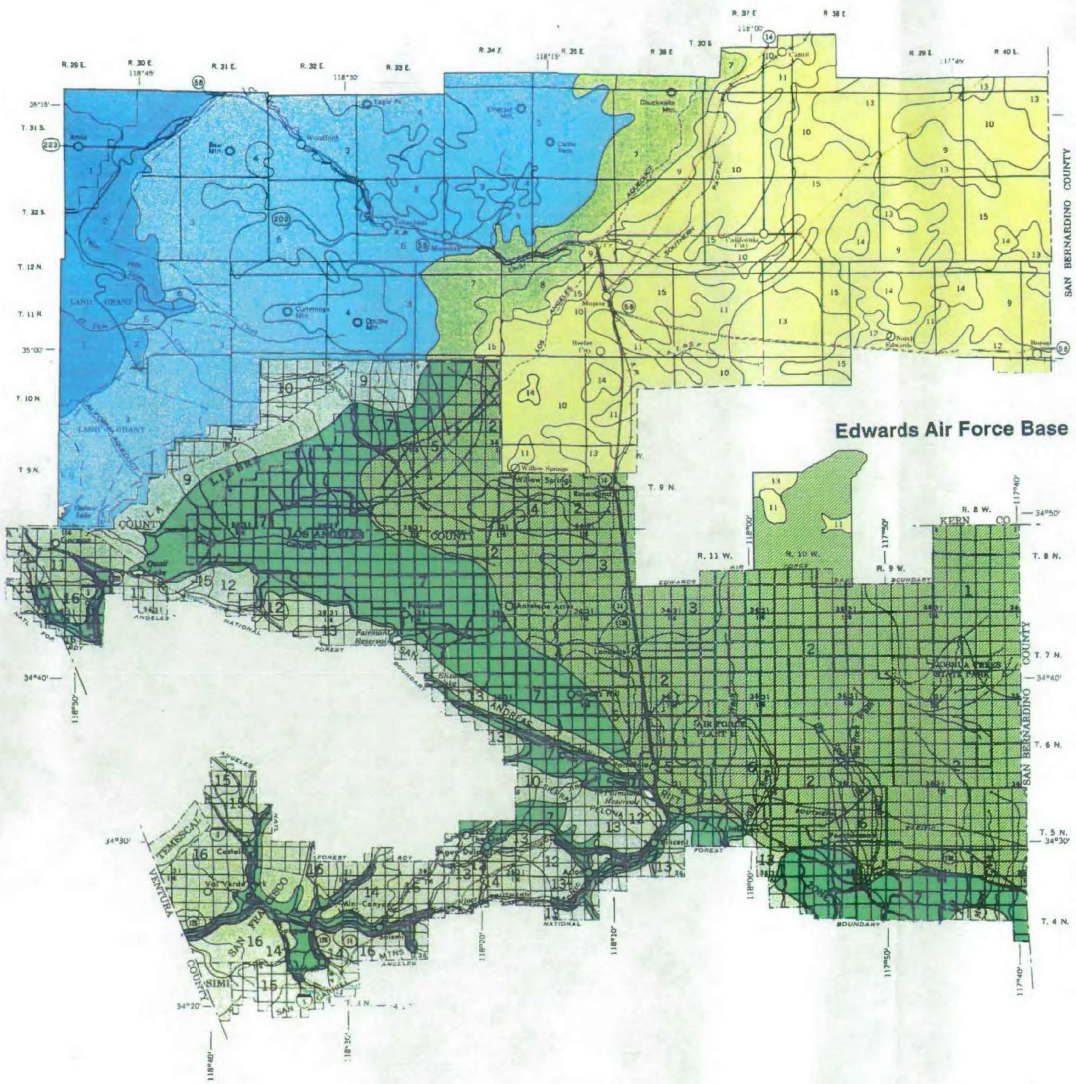
50 times vertical exaggeration

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Geologic Cross Section B-B'
Edwards AFB

Date 2-97	Edwards AFB	Figure
Project No. 11226		1-8

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SOILS ASSOCIATIONS

SOILS OF THE MOJAVE DESERT

1. Calvista-Hi Vista association: Gently sloping to moderately steep, well-drained soils that have a sandy loam or loamy fine sand surface layer; shallow to moderately deep over granite; on low hills.
2. Hesperia-Rosamond-Cajon association: Nearly level to strongly sloping, moderately well drained to excessively drained, very deep soils that have a loamy sand to silty clay loam surface layer; on recent alluvial fans.
3. Pond-Troy-Oban association: Nearly level, moderately well drained, very deep soils that have a fine sand to silty clay loam surface layer; in basins.
4. Sunrise association: Nearly level, moderately well drained soils that have a loamy fine sand to loam surface layer; shallow to moderately deep over caliche; on the basin rim.
5. Adelanto association: Nearly level to gently sloping, well-drained, very deep soils that have a loamy sand or gravelly sandy loam surface layer; on alluvial fans and terraces.
6. Arizo association: Nearly level to gently sloping, excessively drained, very deep soils that have a loamy fine sand or gravelly loamy sand surface layer; on alluvial fans.

SOILS OF THE ALLUVIAL FANS AND TERRACES

7. Hanford-Ramona-Greenfield association: Nearly level to moderately steep, well-drained, very deep soils that have a loamy sand to loam surface layer; on alluvial fans and terraces.
8. Yolo-Metz-Cortina association: Nearly level to moderately sloping, well-drained to excessively drained, very deep soils that have a loam to loamy sand surface layer; on alluvial fans and flood plains.

SOILS OF THE UPLANDS

9. Sheridan-Lebec association: Moderately steep to steep, well-drained soils that have a sandy loam or loam surface layer; moderately deep over granite or limestone; on foothills and mountains.
10. Anaverde-Godde association: Moderately steep to steep, well drained soils that have a loam surface layer; deep to shallow over schist; on foothills and mountains.
11. Oak Glen - Gorman association: Nearly level to steep, well-drained, very deep soils that have a sandy loam to loam surface layer; an alluvial fans and foothills.
12. Las Posas - Toomes-Temescal association: Strongly sloping to steep, well-drained or somewhat excessively drained soils that have a loam or sandy loam surface layer; moderately deep to shallow over basalt or andesite; on foothills.
13. Vista-Amergosa association: Strongly sloping to steep, well-drained to excessively drained soils that have a coarse sandy loam surface layer; moderately deep to shallow over granite; on foothills and mountains.
14. Ojai-Agua Dulce association: Gently sloping to steep, well-drained, very deep to moderately deep soils that have a loam or stony loam surface layer; on terraces and foothills.
15. Gaviota-Millsholm association: Moderately steep or steep, well-drained and somewhat excessively drained soils that have a sandy loam or loam surface layer; shallow over sandstone or shale; on foothills
16. Saugus-Castaic-Balcom association: Gently sloping to very steep, well-drained soils that are loam to silty clay loam throughout; deep to moderately deep over soft sandstone or shale; on foothills and mountains.

MAP UNITS

SOILS ON ALLUVIAL FANS, FLOOD PLAINS AND TERRACES ON THE EASTERN EDGE OF THE SAN JOAQUIN VALLEY

1. Hesperia-Arvin-Whitewolf: Very deep, nearly level to moderately sloping, well drained and somewhat excessively drained soils; on alluvial fans, flood plains, and stream terraces.
2. Chanac-Piello-Badlands: Very deep, gently sloping to steep, well drained soils on old dissected terraces; and Badlands

SOILS ON UPLANDS AND IN VALLEYS OF THE SIERRA NEVADA AND TEHACHAPI MOUNTAINS

3. Walong-Anaverde-Edmundston: Very deep to moderately deep, hilly to very steep, well drained soils underlain by weathered granite or schist; on mountainous uplands
4. Edmundston-Tollhouse-Goode: Deep and shallow, steep to very steep, well drained and somewhat excessively drained soils underlain by weathered granite; o mountainous uplands
5. Tweedy-Rock outcrop-Edmundston: Rock outcrop and deep and moderately deep, steep and very steep, well drained soils underlain by weathered granited or schist; on mountainous uplands
6. Steuber-Tehachapi-Havala: Very deep, nearly level to hilly, well drained soils; on alluvial fans, stream flood plains, and terraces of the mountain valleys

SOILS ON THE EASTERN FOOT SLOPE OF THE SIERRA NEVADA AND TEHACHAPI MOUNTAINS

7. Rock outcrop-Jawbone-Xeric Torriothents: Rock outcrop and shallow, hilly to very steep, well drained and somewhat excessively drained soils; on mountainous uplands
8. Pajuela-Whitewolf: Very deep, nearly level to steep, somewhat excessively drained soils, on old stream terraces, alluvial fans, and flood plains

SOILS OF THE MOJAVE DESERT

9. Cajon-Arizo-Alko: Very deep and shallow, nearly level to strongly sloping, well drained and excessively drained soils; on alluvial fans, alluvial plains, and old terraces
10. Cajon: Very deep, nearly level to strongly sloping, somewhat excessively drained soils, on alluvial fans and plains
11. Rosamond-DeStazo: Very deep, nearly level to moderately sloping, well drained soils; on flood plains and in basins
12. Norob-Neuralia: Very deep and deep, nearly level and gently sloping, well drained soils; on alluvial fans and plains
13. Randsburg-Muroc: Shallow, gently sloping to strongly sloping, well drained soils and Rock outcrop; on mountainous ridges
14. Tornorthents-Rock outcrop: Shallow and very shallow, very steep, well drained soils and Rock outcrop; on mountainous ridges
15. Garlock-Neuralia: Very deep and deep, nearly level to moderately sloping, well drained soils; on old stream terraces, alluvial fans, and alluvial plains

Adapted from the U.S. Soil Conservation Service, 1970, 1981, and 1988.

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Soil Associations Surrounding the Edwards Air Force Base Facility

Date 2-97	Edwards AFB	Figure 1-9
Project No. 11226		

11226.0808

The Cajon-Arizo-Alko association occurs near the western and northern boundaries of Edwards AFB. The soils of this association are derived mainly from granitic rock and occur on alluvial fans, alluvial plains, and old terraces. These soils are from shallow to very deep, nearly level to strongly sloping, and well to excessively drained with a loamy sand, gravelly loamy sand, or sandy loam surface layer.

The Cajon association occurs near the eastern part of the Edwards AFB boundary. This soil association originates from coarse-textured alluvium derived from granitic rock and is found on alluvial fans and alluvial plains. These soils are very deep, nearly level to strongly sloping, and somewhat excessively drained with a loamy sand surface layer. The Rosamond-DeStazo association occurs near the northwestern corner of the Edwards AFB boundary. This soil association is formed in moderately fine-grained alluvium derived from granitic rock and is found on flood plains and on basin floors. These soils are typically very deep, nearly level to moderately sloping, and well-drained with a clay loam or sandy loam surface layer.

The Norob-Neuralia association occurs near the north-northeastern boundary of Edwards AFB. These soils form in moderately coarse to moderately fine-textured alluvium derived from mixed rocks or from granitic rock and are found on alluvial fans and alluvial plains. This association is typically deep to very deep, nearly level to gently sloping, and well-drained with a sand surface layer, a sandy clay loam subsoil and a gravelly sandy loam substratum.

The Randsburg-Muroc association is found throughout most of the desert and occurs near the northern and western boundaries of Edwards AFB. This soil association is formed in moderately coarse-textured residuum weathered from granitic bedrock and is found on low pediments. These soils are shallow, gently sloping to strongly sloping, and well-drained with a sandy loam surface layer and subsoil.

The Garlock-Neuralia association is found only near the northern boundary of Edwards AFB. This soil association is formed in coarse to moderately fine-textured alluvium derived from granitic rock and typically occurs on old stream terraces, alluvial fans, and alluvial plains. These soils are deep to very deep, nearly level to moderately sloping, and well-drained with a loamy sand or sandy loam surface layer.

A similar survey, the Soil Survey of Kern County, California, Southeastern Part (USDA SCS, 1981), identified three soil associations present near the southern boundary of the base. These include the Calvista-Hi-Vista association, the Hesperia-Rosamond-Cajon association, and the Pond-Troy-Oban association.

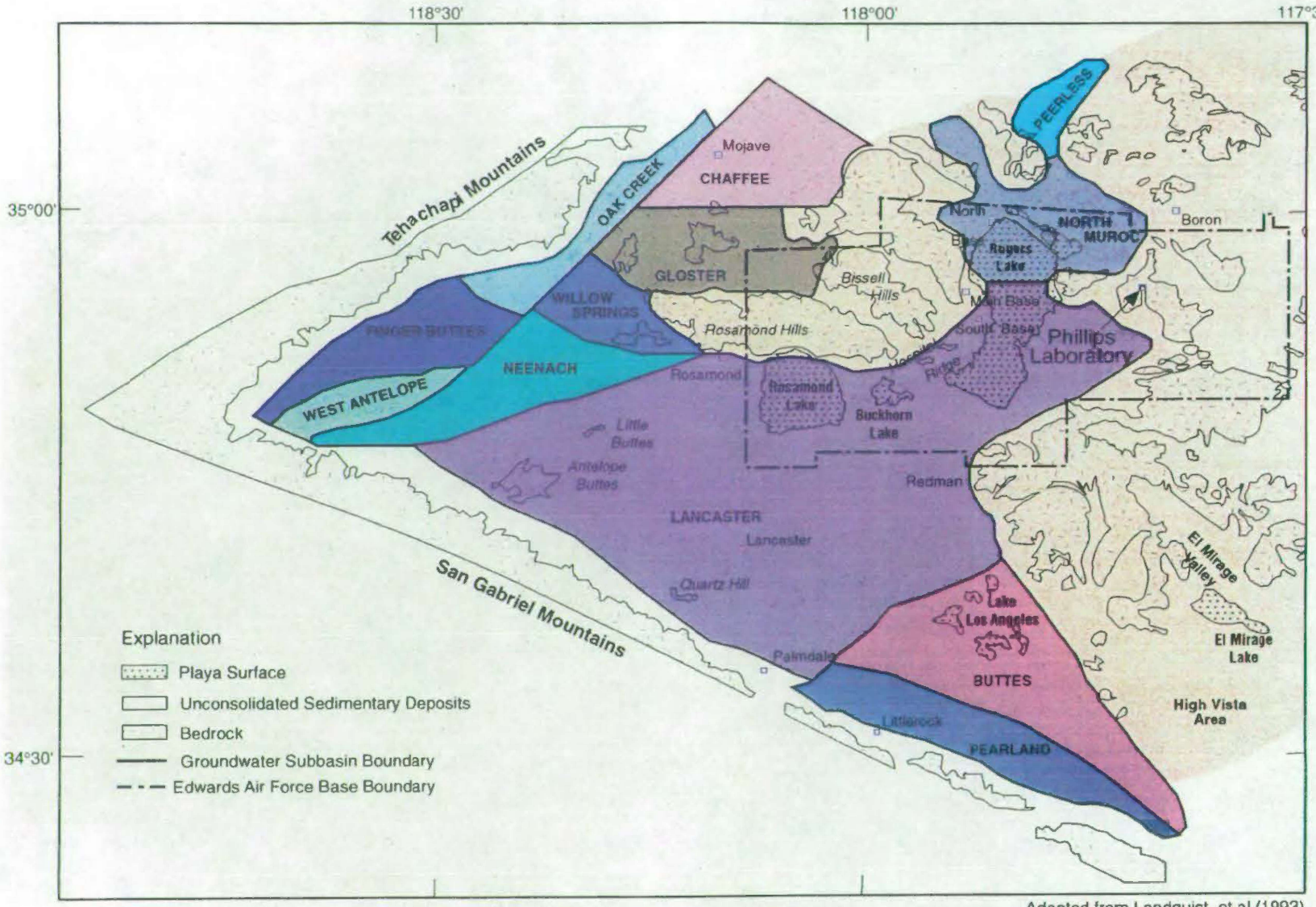
The Calvista-Hi-Vista association occurs near the southeastern boundary of the base on the low hills near Hi Vista. The soils of this association are formed in material weathered from granitic rock. These soils are shallow to moderately deep with slopes ranging from 2 to 30 percent and are well drained. The surface layer is a sandy loam or loamy fine sand.

The Hesperia-Rosamond-Cajon association occurs directly south of the Edwards AFB boundary. The soils of this association are formed in alluvium derived from granitic rock and are found on alluvial fans. These soils are very deep and moderately well drained to excessively drained with slopes ranging from 0 to 15 percent. The surface layer ranges from a loamy sand to a silty clay loam.

The Pond-Troy-Oban association occurs in basins near the southeastern boundary of Edwards AFB and extends northeastward as far as Rosamond Lake. The soils of this association are formed in alluvium derived from granitic rock. These soils are very deep, moderately well drained, and in places, contain slight to moderate amounts of soluble salts or alkali. The surface layer is fine sand to silty clay loam sloping between 0 and 2 percent.

1.3.5 Hydrogeology

1.3.5.1 Regional Aquifers. The Antelope Valley is underlain by a large groundwater basin that has been divided into several subbasins first by Thayer (1946) and then by Bloyd (1967). These subbasins are bounded laterally by consolidated rock, faults, groundwater divides, and in some instances by arbitrary boundaries (Figure 1-10). The two primary subbasins underlying Edwards AFB are the Lancaster Subbasin and the North Muroc Subbasin. The Gloster Subbasin underlies a small portion of the base in the extreme northwestern corner. The Main Base is situated primarily within the Rosamond Hills/Bissell Hills area, which features shallow bedrock with a thin alluvial cover. Relatively minor amounts of groundwater exist within the alluvium and in the bedrock, which can be highly fractured. Another area of thin alluvium and shallow bedrock on the eastern side of the North Muroc and Lancaster subbasins includes Leuhman Ridge and the Phillips Laboratory.



Adapted from Londquist, et al (1993).

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Groundwater Subbasins in Antelope Valley

Date 2-97	Edwards AFB	Figure 1-10
Project No. 11226		

11226.0808

Recharge to the entire Antelope Valley groundwater basin was estimated by Bloyd (1967) to be 58,000 acre-ft while Durbin (1978) estimated recharge at 40,700 acre-ft. The North Muroc and Lancaster subbasins supply groundwater to the base and to civilians of the Antelope Valley. Activities associated with the base may have a negative impact on these important groundwater resources. Therefore, a more detailed description of these two subbasins is presented.

Lancaster Subbasin. The Lancaster Subbasin is the largest in the Antelope Valley, covering an area of approximately 800 square miles and extending into the southern portion of the base beneath Rogers Lake. The thickness of unconsolidated sediments in this basin (within the boundaries of Edwards AFB) is estimated to exceed 1,500 feet. Greater thicknesses are found to the south, beyond the base boundary, with an oil test well reaching 5,576 feet below ground surface without penetrating bedrock. Two main aquifers, the principal and the deep, have been identified within the Lancaster Subbasin, separated by a laterally continuous layer of fine lacustrine deposits. The principal aquifer is the shallower of the two. It overlies the lacustrine deposits and provides most of the groundwater pumped from the Antelope Valley (Londquist, 1993). The principal aquifer extends throughout most of the southern and middle portions of the subbasin, ending near the southern extent of Rogers Lake. It exists as an unconfined aquifer in the younger fan and alluvial deposits (Dutcher and Worts, 1963). The depth to the top of groundwater in the principal aquifer ranges from 175 feet to 325 feet, and depth to the bottom of the aquifer ranges from 200 feet to 700 feet.

The deep aquifer is found throughout the entire Lancaster Subbasin. In the southern and middle parts of the subbasin, groundwater occurs in confined conditions in the older alluvium beneath the lacustrine deposits. Groundwater in the deep aquifer occurs in unconfined conditions where the lacustrine deposits are absent, such as in the Main Base area. Where unconfined, the deep aquifer extends into the younger alluvium of the principal aquifer, creating a direct hydraulic link between the two aquifers. Depth to the top of the deep aquifer ranges from 250 feet to 900 feet beneath the lacustrine deposits, but the aquifer is much shallower around the borders of the subbasin. Figure 1-7 shows the lacustrine deposits that act as a confining layer (blue clays) or a semi-confining layer (brown clays).

Perched groundwater has been identified discontinuously across most of the Lancaster Subbasin above the principal aquifer. The groundwater is perched on clay lenses within the younger alluvium at various depths,

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usually between 35 feet and 50 feet below ground surface (bgs). Perched groundwater was found about 15 feet above the principal aquifer in the area of the old South Base well field (Roy F. Weston, 1986).

Recharge to the Lancaster Subbasin is primarily through infiltration of runoff discharging from the San Gabriel and Tehachapi mountains. Infiltration through the permeable alluvial fan and valley alluvium occurs within the various drainage areas before reaching the playas (see Figure 1-5). The playa surface is a fine-grained sediment of low permeability, and therefore, does not provide substantial infiltration of surface water (Envirodyne Engineers, Inc., 1981). No natural discharge areas are known.

Groundwater pumping in the Antelope Valley began about 1915, and reached 174,000 acre-ft per year by 1930, with the majority of groundwater being extracted from the principal aquifer of the Lancaster Subbasin. After a decline in pumpage during the Depression, groundwater usage increased; peaking in 1953 when about 480,000 acre-ft per year were pumped (Londquist, 1993). Use has declined since then, again falling below 200,000 acre-ft by 1973 (Roy F. Weston, 1986). Between 1947 and 1988, U.S. Air Force use of the Lancaster Subbasin groundwater ranged from less than 1,000 acre-ft per year (1947) to a high of 6,700 acre-ft per year (1965). For the years 1989 and 1990 withdrawals have averaged around 6,000 acre-ft/yr (Londquist, 1993). Long term hydrographs of wells within the subbasin show a steady decline in water levels between 1947 and 1990 and are attributed to the high withdrawal rates. The rates and amount of water level decline vary greatly from well to well with a maximum recorded decline of 90 feet in the South Base well field. Figure 1-7 shows approximate water levels for 1952 and 1985.

North Muroc Subbasin. The North Muroc Subbasin is much smaller than the Lancaster Subbasin, covering about 80 square miles. The unconsolidated sediments are estimated to be as thick as 1,000 feet or more. Groundwater primarily occurs in unconfined conditions within the older alluvial unit. Groundwater can also occur in the younger alluvium and under perched conditions. Depth to groundwater is generally between 100 feet and 125 feet.

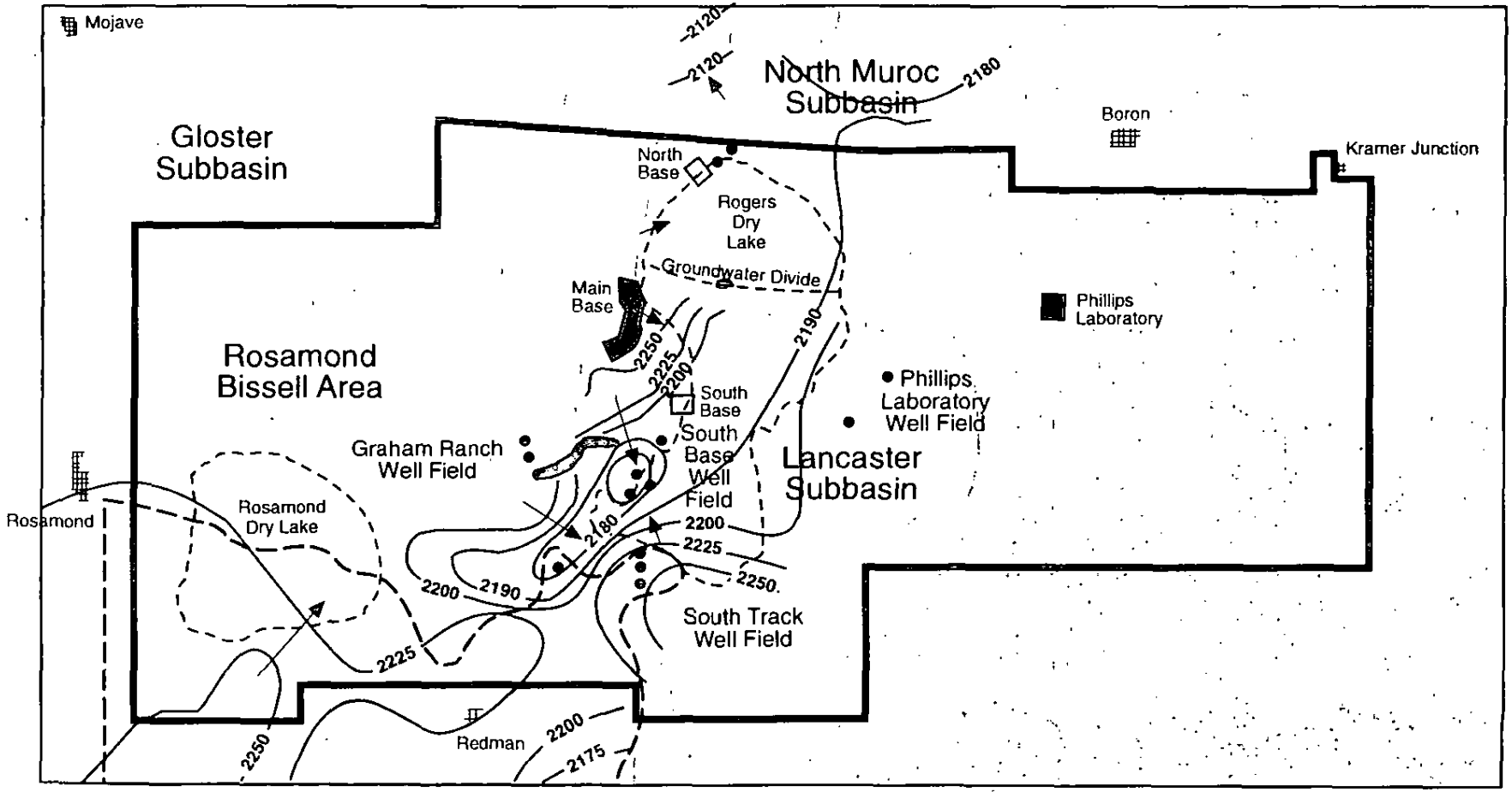
Groundwater recharge to the North Muroc Subbasin from surrounding highlands is relatively minor and is less than current withdrawals. Prior to groundwater extraction in the Antelope Valley, recharge to the North Muroc Subbasin was primarily from subsurface groundwater "overflow" out of the Lancaster Subbasin. However, because groundwater levels have declined in the Lancaster Subbasin, this type of recharge appears

to have been eliminated. No natural springs or discharge areas exist. Withdrawals from the subbasin are mainly from the North Base well field on Edwards AFB and the US Borax Company's south well field near Boron. These two well fields account for nearly 80 percent of the total 3,400 acre-ft to 3,800 acre-ft of groundwater pumped from this basin between 1983 and 1985 (Roy F. Weston, 1986).

1.3.5.2 Groundwater Movement. Groundwater extraction in the Lancaster Subbasin has had a noticeable effect on groundwater flow within the subbasin. Prior to pumping, flow in the Lancaster Subbasin near Edwards AFB was thought to be to the north and into the North Muroc Subbasin. Since 1965, the flow has been to the south toward a large cone of depression generated from pumping within the South Track well field, which is near the south central boundary of the base. Groundwater flow directions in the North Muroc Subbasin are not as clear and are dependent upon the influence of the groundwater divide separating the two subbasins. This groundwater divide is a buried ridge of shallow bedrock trending in a general east-west direction across Rogers Dry Lake. Pumping at the South Track well field has lowered the water table within the Lancaster Subbasin below that of the North Muroc Subbasin, creating a potential for flow to the south. If the divide is shallow and continuous, groundwater flow in the North Muroc Subbasin would not be affected and flow would continue to the north as it has in the past. If the divide is deep or discontinuous, groundwater flow may have reversed to a southerly direction recharging the Lancaster Subbasin. A study done using 1965 data, indicated that groundwater was flowing north in the North Muroc Subbasin and south in the Lancaster Subbasin (Bloyd, 1967). A similar study done using spring 1984 data, showed a southerly flow pattern toward the South Track well field in the Lancaster Subbasin while flow in the North Muroc Subbasin was unclear, some indications suggested flow was still to the north (Moyle and Glenn, 1986).

Groundwater from the Rosamond Hills/Bissell hills area generally flows down slope into the surrounding subbasins following surface topography. Within the boundary of Edwards AFB, the majority of the groundwater flows into the Lancaster Subbasin recharging the deep aquifer. A lesser amount of groundwater, along the northern portion of the Rosamond Hills/Bissell hills area, flows into the North Muroc Subbasin. The point at which the groundwater flow is divided is still unclear, and is dependent upon the proximity of the groundwater divide separating the two subbasins. Current indications are that the divide is near the NASA facility, just north of the Main Base. Figure 1-11 shows groundwater contours and general flow directions using data from spring 1984.

FA 2254



Explanation

- Shallow bedrock area
- Groundwater subbasins
- Blue clay *subcrop*
- Base boundary
- Dry lake outline
- Extraction wells
- Groundwater flow direction
- Groundwater *contours*

"W" vels from Spring 1984

North

0 2 4 6 Miles

Scale

Modified from: Moyle and Glenn, 1986

USTI Report

Regional Groundwater Flow Directions Edwards AFB

Date 2-97	Edwards AFB	*Figure* 1-11
Project No. 11226		

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1.3.5.3 Aquifer Characteristics. Durbin (1978) estimated the aquifer properties for both the principal and deep aquifers of the Lancaster Subbasin within the area of the Edwards AFB for the purpose of modeling the groundwater flow of the entire Antelope Valley. Transmissivity estimates ranged from 800 ft^2/day to 9,000 ft^2/day for the principal aquifer and from 1,700 ft^2/day to 14,000 ft^2/day for the deep aquifer. Durbin also estimated the storage coefficient of the principal and deep aquifers based on specific yield values of deposits determined by Dutcher and Worts (1963). The estimates of the storage coefficient of the principal aquifer ranged from 0.05 to 0.10 and the estimate for the storage coefficient of the deep aquifer in the area east of Rogers Dry Lake was 0.15. Durbin estimated a storage coefficient value of 0.001 for the confined area of the deep aquifer and a vertical hydraulic conductivity of 0.01 ft/day for the confining bed between the two aquifers.

1.3.5.4 Water Quality. Water quality generally involves a discussion of several factors including measurements of total dissolved solids (TDS) and hardness, information regarding water type, and presence or absence of several inorganic analytes and ions. TDS values are commonly used to rate the water quality as fresh (0 to 1,000 mg/L), brackish (1,000 to 10,000 mg/L), saline (10,000 to 100,000 mg/L), or brine (greater than 100,000 mg/L). Hardness values are related to the presence of calcium and magnesium ions and are commonly used to rate the water as soft (0 to 60 mg/L), moderately hard (61 to 120 mg/L), hard (121 to 180 mg/L), or very hard (greater than 180 mg/L). The two values tend to be directly proportional, i.e., the more dissolved solids in a body of water, the higher the hardness value. References to water type are used to describe the differences in major-ion chemistry of groundwater, i.e., a body of water referred to as sodium chloride type will have sodium and chloride as the predominant cation and anion, respectively. High concentrations of several naturally occurring inorganic analytes (including arsenic, barium, cadmium, copper, fluoride, hexavalent chromium, lead, mercury, nitrate, and selenium) are considered potential health hazards. High concentrations of several other analytes contribute to poor taste (i.e., chloride, sulfate, and zinc). In addition, high concentrations of iron and manganese precipitate to stain pipes and textiles.

Groundwater from the North Muroc Subbasin has been reported as fresh to brackish (TDS values ranging from 549 to 1,250 mg/L, averaging 800 mg/L), low in calcium and high in sodium bicarbonate (Roy F. Weston, 1986). Locally, high concentrations of nitrate (NO_2-) and fluoride, as well as persistently high concentrations of chloride and arsenic, were found in some wells.

In the Lancaster Subbasin, groundwater in the principal aquifer is of the calcium and sodium bicarbonate type (Roy F. Weston, 1986). TDS for the groundwater of the principal aquifer ranges in concentration from 220 to 360 mg/L (fresh water). While this groundwater is higher in carbonates than the North Muroc groundwater, it typically does not have significant levels of naturally occurring potentially harmful inorganic analytes. The deep aquifer of the Lancaster Subbasin, underlying the lacustrine deposits in the southern to middle portion of the basin, produces a softer water of primarily sodium bicarbonate type with TDS values that average 220 mg/L. The portion of the deep aquifer existing within Main Base is heavily influenced by recharge from the Rosamond Hills/Bissell Hills area. Based on data collected during the remedial investigation (RI) conducted for the Main Base Flight Line, groundwater underlying Main Base, is of sodium chloride to sodium sulfate-chloride type and ranges from fresh to saline, with TDS values ranging from 286 to 55,800 mg/L.

1.3.5.5 Water Use and Well Inventory. Groundwater in the Antelope Valley is used for a variety of purposes, including domestic, municipal, industrial, and agricultural uses. Until March 1993, the Edwards AFB water supply came entirely from the groundwater. Beginning in March 1993, Edwards AFB began using Antelope Valley East Kern (AVEK) water. Approximately 25 percent of Edwards AFB daily usage is supplied from AVEK. When the base was established in the 1940s, the U.S. Air Force used several existing wells; installed by previous land owners for domestic, stock watering, and agricultural purposes. Since then, wells have been installed on base in several separate well fields. The primary base water supply wells are now located in four area: the South Base well field, the South Track well field, the North Base well field, and the Phillips Laboratory well field. Both new and existing (those constructed prior to 1940) groundwater wells located outside of the well fields have been used on base for various purposes. Most of the wells installed prior to the 1940s are no longer in service, the exceptions being the golf course (Well C-3) and Branch Memorial Park (Well C-1) wells (Roy F. Weston, 1986). Table 1-2 lists the currently active base production wells and associated information.

A program to identify and locate historic wells that predate Edwards AFB was begun in 1988 with a search of county and state agency records and a partial field verification of wells. Computer Sciences Corporation (Wessel and Howard, 1990) reported that as many as 474 wells are potentially located within the Edwards AFB boundaries. Of these, 199 were field verified, 80 wells could not be located in the field, and 195 remained

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TABLE 1-2. EDWARDS AFB ACTIVE GROUNDWATER PRODUCTION WELL DATA

Well Number								Pump Information	
EAFB	USGS	Year Completed	Total Depth (ft. BGS)	Well Screen Interval (ft. BGS)	Estimated Average Annual Production (mil. gal.)	Estimated Safe Yield(*) (gal./min.)	Static Water Level (Date Measured) (ft. BGS)	Depth (ft.)	Diam. (in.)
North Base Well Field									
N-2	10/9-5B1	1964	500	NA	258	910	110 (12/91)	290	8
South Base Well Field									
S-2	9/10-24G1	1951	750	NA	281	850	138 (12/91)	250	8
S-3	9/10-24E3	1974	590	220-590	151	400	140 (8/89)	300	8
S-7	9/10-24E1	1990	706	290-690	NA	500	200 (12/91)	400	8
South Track Well Field									
S-4	9/10-36F1	1974	676	216-662	338	1,550	132 (5/88)	300	12
S-5	9/10-36P1	1974	659	223-665	221	3,500	134 (5/88)	310	10
S-6	8/10-1C2	1984	728	300-690	NA	2,500	140 (5/88)	362	10
NST-1	8/10-2G1	1993	843	583-833	526	1,500	135 (3/93)	700	10
NST-2	8/10-2M2	1993	785	525-775	526	1,500	135 (3/93)	700	10
Branch Park Well Field									
C-1	9/10-34P3	1946	400	NA	72	1,500	NA	135	10
Golf Course Well Field									
C-3	9/10-16P1	1972	532	NA	8	450	121 (12/91)	243	6
C-4	9/10-16R4	1990	709	290-690	NA	800	110 (4/90)	NA	NA
Phillips Laboratory Well Field									
AFAL-3	9/8-6J1	1949	467	138-402	NA	1,000	NA	NA	NA
AFAL-A	9/9-14P2	1963	NA	NA	NA	NA	NA	NA	NA
AFAL-B	9/9-15J1	1963	NA	NA	NA	NA	NA	NA	NA
AFAL-C	9/9-23B1	NA	NA	NA	NA	NA	NA	NA	NA
AFAL-D	9/9-13N1	NA	NA	NA	NA	NA	NA	NA	NA

(*) = Current short-term safe yield estimated from 1985 step tests
Source = U.S. Department of the Air Force (1993)
NA = Not Available

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to be checked. Information provided on the 199 wells that were field verified suggests that most wells were not properly abandoned or destroyed.

In a further study, a total of 394 potential well locations were recorded in a database and plotted on 7.5-minute USGS quadrangle maps by Jacobs Engineering Group, Inc. (1993). The database included: assigned Edwards AFB case number; location (township, range, section); USGS well number; data of well completion; well depth; water depth; elevation; casing stick-up height; hazardous vapor surveys (50 wells); possible historical significance; and any additional comments (Jacobs Engineering Group, Inc., 1993).

Three subsequent base-wide water well identification activities were begun in 1992 for Edwards AFB under the well abandonment program and Operable Unit 3 (OU 3) Site Investigation (SI) Work Plan (Jacobs Engineering Group, Inc., 1993). The first of these activities was an assessment of the well locations for biological and cultural resources prior to temporarily capping some of the 199 field verified wells identified in Wessel and Howard (1990). The second activity was to provide accurate locations of all the historic wells on base using global positioning system (GPS) techniques, and to supplement the resource assessment of all well locations on base for the permanent abandonment of wells. A total of 465 well locations were evaluated. Forty well sites were not found; the other 425 sites were located and historic wells were found at 311 of these sites. A final SI-phase investigation in 1993 to 1994 included: base-wide literature search of federal, state, and county agency water well and homesteading records (including real estate appraiser reports); a field-based water well identification; hazardous vapor surveys of all open water wells on base; temporarily capping and locking all open water wells on base; survey (GPS) the locations of newly found water wells; soil, water, air, or product sampling from water wells that have elevated organic or explosive vapors or other evidence of introduced contaminants; and laboratory analyses of soil, water, air, or product samples extracted from the water wells (Earth Tech, 1994). By the end of the OU 3 site investigations, 632 water wells were located and investigated on Edwards AFB.

1.3.6 Biology and Ecology

Edwards AFB is located at the western edge of the Mojave Desert within the Hot Desert Floristic Province, as designated by the California Native Plant Society, or the Southern Desert Biotic Province as designated by

Muntz and Keck (1968). A biotic province is a major subdivision of the flora of North America that "covers a considerable and continuous geographic area and is characterized by the occurrence of one or more important ecological associations that differ, at least in area covered, from the associations of adjacent provinces. In general, biotic provinces are also characterized by peculiarities of vegetation type, ecological climax, flora, fauna, climate, physiography, and soil (Muntz and Keck, 1968).

Edwards AFB base consists of 301,000 acres of mostly sandy soils surrounding three dry lakebeds: Rosamond, Buckhorn, Rogers lakes. An elevation change of just over 1,100 feet exists between Rogers Dry Lake (2,268 feet) and the rocky ridge tops of Leuhman Ridge (3,406 feet) and Haystack Butte (3,408 feet).

1.3.6.1 Major Plant Communities of Edwards AFB. The vegetated portions of Edwards AFB are dominated visually by three plant species: creosote bush (*Larrea divaricata* var. *tridentata*), Joshua tree (*Yucca brevifolia*), and allscale or cattle spinach (*Atriplex polycarpa*). These plant species do not truly reflect three natural plant communities because the Joshua tree does not follow an elevational gradient in its distribution pattern. The Joshua tree is found on sand dunes at the lowest elevations and in dense woodlands (greater than 100 per square mile) at the base of the major rocky hills on base. More accurately, the Joshua tree is a member of the upper bajada habitat within the creosote bush scrub and not a diagnostic species of a separate plant community.

Charlton (1990) identified four district vegetative communities at Edwards AFB based on the classification scheme of Terrestrial Vegetation of California (Barbour and Major, 1988): halophytic phase saltbush scrub, xerophytic phase saltbush scrub, creosote bush scrub, and creosote bush scrub of the upper bajada.

Halophytic Phase Saltbush Scrub. The halophytic, or alkaline, phase of the saltbush scrub is a clay pan/sand dune complex found at the lower elevations on the southern edges of the lakebeds. This community is dominated by several plant species. The Joshua tree is found on the larger dune complexes. Mesquite (*Prosopis glandulosa*) is a large deciduous tree with roots that reach permanent subsurface water as deep as 50 feet bgs. Mesquite is found only in the South Base area. Allscale is the dominant saltbush and is accompanied by the less common shadscale (*Atriplex confertifolia*). Other common perennials include quailbush (*Atriplex lentiformis*), horseweed (*Conyza canadensis*), desert olive (*Forestieria neomexicana*), alkali golden bush (*Haplopappus acradenius*), rubber rabbitbrush (*Chrysothamnus nauseosus spp. mohavensis*),

matchweed (*Gutierrezia microcephala*), parish's sagebrush (*Artemesia tridentata spp. parishii*), greasewood (*Sarcobatus vermiculatus*), and Nevada tea (*Ephedra nevadensis*). Non-woody perennials include stillingia (*Stillingia paucidentata*), green molly (*Kochia californica*), wirelettuce (*Stephanomeria pauciflora*), alkali rye (*Elymus cinereus*), alkali sacaton (*Sporobolus airoides*), and saltgrass (*Distichlis spicata*). Annuals include dune species such as sand verbena (*Abronia villosa*), evening primrose (*Oenothera sp.*), sapphire flower (*Eriastrum eremicum*), autumn vinegarweed (*Lessingia lemmonii spp. ramulosissima*), Arizona popcorn.flower (*Plagiobothrys arizonicus*), cleomella (*Cleomella obtusifolia*), and dune wallflower (*Erysimum capitatum*). Pioneer species such as Russian thistle (*Salsola australis*), tansymustard (*Descurainia sophia*), shield cress (*Lepidium perfoliatum*), and cheatgrass brome (*Bromus tectorum*) occur in disturbed areas. Natives such as goldfields (*Lasthenia californica*), alkali pineappleweed (*Matricaria occidentalis*), arrowscale (*Atriplex phyllostegia*), rosescale (*Atriplex parishii*), spotted buckwheat (*Eriogonum maculatum*), combseed (*Pectocarya recurvata*), and coreopsis (*Coreopsis sp.*) are common after winter and spring rains.

Rare plant species include the alkali mariposa lily (*Calochortus striatus*) which is most common in internal drainages with brown clay soils. The population of alkali mariposa lily closest to Main Base, is located just south of the western end of the main runway (Phillips, 1986). The recently delisted Mojave spineflower (*Chorizanthe spinosa*) prefers sloping pan edges containing coarse white sands on a hard crust. It also is found on well-drained (sloping), disturbed areas.

Piute Ponds is a pan area on the southwestern corner of the base that has been flooded by discharge from an offbase wastewater treatment plant. The ponds have thick patches of cattail (*Typha sp.*), spikerush (*Eleocharis montevidensis*), wiregrass (*Juncus mexicanus*), and smartweed (*Persicaria lapathifolium*) despite their disturbance by blading and fires. Several weedy plant species, including nightshade (*Solanum nigrum*), prickly lettuce (*Lactuca sativa*), curly dock (*Rumex crispus*), bassia (*Bassia hyssopifolia*), pigweed (*Amaranthus albus*), yellow star thistle (*Centaurea solstitialis*), and Russian knapweed (*Centaurea repens*), have invaded the bare areas. Narrow-leaf willow (*Salix exigua*) can be found in dense colonies along the ponds and roadside ditches. Cottonwood (*Populus fremontii*) and tamarisk (*Tamarix chinensis*) are invasive species originally introduced by homesteaders. Other common invaders of localized wet areas are rabbits-foot grass (*Polyogon monspeliensis*), horseweed, and cudweed (*Gnaphalium palustre*). Sacred datura (*Datura inoxia*), once a common wash plant, is occasionally found along roadsides and disturbed areas. Similar plant communities

have developed at the discharge ponds for the wastewater treatment plant at South Base and the stormwater management system at Main Base.

Xerophytic Phase Saltbush Scrub. The xerophytic or arid phase of the saltbush scrub is dominated by allscale. This community is widespread above the halophytic phase, on the northern end of the lakebeds, and on valley flats to the north and east of the base. The xerophytic phase saltbush scrub represents the major natural community existing adjacent to Rogers Dry Lake prior to development of the Main Base.

Sand dunes are much rarer in the xerophytic phase saltbush scrub. When present, they contain similar dune species to those described above, including Joshua tree, cheesebush (*Hymenoclea salsola*), and annuals such as gilia (*Gilia cana*) and suncups (*Camissonia campestris*). Prince's plume (*Stanleya pinnata*) occurs in local low sites and is an indicator of selenium. Spiny hopsage (*Grayia spinosa*) and winter fat (*Ceratoides lanata*) occur in both saltbush and creosote bush scrub communities.

Creosote Bush Scrub. The creosote bush scrub is common at intermediate altitudes on base and occupies the less developed areas in the western part of Operable Unit 1 (OU 1), the Main Base Flight Line. This community occurs on hillsides above the xerophytic phase saltbush scrub. Creosote bush is often codominant with the less conspicuous burrobush (*Ambrosia dumosa*). The common sandy soils on base contain large populations of cheesebush. Rocky hillsides often contain feltleaf cottonthorn (*Tetradymia stenolepis*), long-spine cottonthorn (*Tetradymia axillaris*), goldenheads (*Acamptopappus sphaerocephalus*), Cooper's goldenbush (*Haplopappus cooperi*), golden cholla (*Opuntia echinocarpa*), beaver tail prickly pear (*Opuntia basilaris*), pencil cholla (*Opuntia ramosissima*), and desert senna (*Cassia armata*). Wolfberry (*Lycium andersonii*) and peachthorn (*Lycium cooperi*) (both boxthorns), and sandpaper plant (*Pentalonyx tharberi*) are common on wash edges. The wash habitat is poorly developed on base. The rocky hillsides contain squirrel tail grass (*Sitanion hystrix*) and desert needlegrass (*Stripa speciosa*) along with creosote bush, Cooper's goldenbush (*Haplopappus cooperi*), and buckwheat (*Eriogonum sp.*). The most common annuals on base are the introduced filaree (*Erodium sp.*) and the unpalatable fiddleneck (*Amsinckia tessellata*). Turkey mullein (*Eremocarpus setigerus*) is found in disturbed areas. Milkweed (*Asclepias sp.*) and bladder pod (*Cleome isomeris*) occur along roadsides. Milkweed naturally occurs in washes. Common annuals include white-stem blazing star (*Mentzelia albicaulis*), purple mat (*Nama demissum*), wing-seed cryptantha (*Cryptantha petrocarya*), yellowthroat (*Phacelia fremontii*), and calico flower (*Loeselliastrum matthewsii*). Summer

annuals include yellow peppergrass (*Lepidium flavum*), fringed amaranth (*Amaranthus fimbriatus*), autumn vinegarweed, Indian chickweed (*Mollugo cerviana*), and annual spurge (*Euphorbia micromeria*).

Creosote Bush Scrub of the Upper Bajada. The upper bajada phase of the creosote bush scrub community contains deep reddish-tan sloping sandy soils. This habitat is dominated by the Joshua tree. It often contains spectacular annual wildflower displays of coreopsis, royal lupine (*Lupinus odoratus*), woolly daisy (*Eriophyllum wallacei*), pincushion flower (*Chaenactis sp.*), wing-seeded cryptantha, combseed (*Pectocarya recurvata*), yellowthroats, chia sage (*Salvia columbariae*), brown-eyed primrose (*Camissonia claviformis*), yellow turbans (*Eriogonum pasillum*), golden gilia (*Linanthus aureus*), bird's nest buckwheat (*Eriogonum nidularium*), skeletonweed (*Eriogonum deflexum*), splitgrass (*Schismus barbatus*), red-root cryptantha (*Cryptantha micrantha*), thread-stem (*Nemacladus glanduliferus*), woody bottle washer (*Camissonia boothii*), annual locoweed (*Astragalus sp.*), desert candle (*Caulanthus inflalus*), and desert dandelion (*Malacothrix glabrata*). Perennials include four-wing saltbush (*Atriplex canescens*) and paperbag bush (*Salazaria mexicana*) along washes. Mojave parsley (*Lomatium mohavense*) and desert trumpet (*Eriogonum inflatum*) occur on rocky slopes. Common perennials on the rocky slopes include: Mohave aster (*Xylorhiza tortifolia*), both subspecies of the perennial buckwheat, cooper's goldenbush and the desert needle grass and squirrel-tail grass.

1.3.6.2 Wildlife. Field surveys for general wildlife species have been conducted for the entire base as part of the ongoing Habitat Quality Analysis being implemented by Edwards AFB. A summary of results is presented in the Programmatic Environmental Assessment for Base-Wide Implementation of the Installation Restoration Program at Edwards AFB, California (U.S. Army Corps of Engineers, 1994), and the Biological Resources Environmental Planning Technical Report (U. S. Air Force, 1993). Many species were observed throughout the base, while some were specific to particular habitats or areas.

Table 1-3 lists mammals, bird, reptiles, and amphibians confirmed to be present on Edwards AFB. Although only the 26 most common bird species are listed in Table 1-3, base wide surveys conducted during the spring of 1993 confirmed a total of 60 avian species. In addition, several bird species were observed as flyovers or reported incidental to other studies. Only one amphibian (western toad, *Bufo boreas)* is known at Edwards AFB while 15 species of reptiles were found in the recent base-wide biological survey (Table 1-3).

TABLE 1-3. WILDLIFE SPECIES CONFIRMED TO BE PRESENT ON EDWARDS AFB, CALIFORNIA
(Page 1 of 3)

Species Name	Common Name
Large Mammals	
Taxidea taxus	American Badger
Canis latrans	Coyote
Vulpes macrotis	Kit Fox
Urocyon cinereoargenteus	Grey Fox
Felis rufus	Bobcat
Lepus californicus	Black-tailed Jackrabbit
Sylvilagus audubonii	Desert Cottontail
Small Mammals	
Ammospermophilus leucurus	White-tailed Antelope Squirrel
Spermophilus beecheyi	California Ground Squirrel
Spermophilis mohavensis	Mohave Ground Squirrel
Perognathus formosus	Long-tailed Pocket Mouse
Perognathus longimembris	Little Pocket Mouse
Dipodomys deserti	Desert Kangaroo Rat
Dipodomys merriami	Merriam Kangaroo Rat
Dipodomys microps	Great Basin Kangaroo Rat
Dipodomys panamintinus	Panamint Kangaroo Rat
Neotoma lepida	Desert Woodrat
Onychomys torridus	Grasshopper Mouse
Peromyscus maniculatus	Deer Mouse
Reithrodontomys megalotis	Western Harvest Mouse
Microtis californicus	California Vole

TABLE 1-3. WILDLIFE SPECIES CONFIRMED TO BE PRESENT ON EDWARDS AFB, CALIFORNIA
(Page 2 of 3)

Species Name	Common Name
Birds (most common at Edwards AFB)	
Accipiter cooperii	Cooper's Hawk
Circus cyaneus	Northern Harrier
Buteo jamaicensis	Red-tailed Hawk
Buteo regalis	Ferruginous Hawk
Aquila chrysaetos	Golden Eagle
Falco mexicanus	Prairie Falcon
Falco sparveius	American Kestral
Callipepla californica	California Quail
Zenaida macroura	Mourning Dove
Bubo virginianus	Great Horned Owl
Asio flammeus	Short-eared Owl
Athene cunicularia	Burrowing Owl
Picoides scalaris	Ladder-backed Woodpecker
Myiarchus cinerascens	Ash-throated Flycatcher
Tyrannus verticalus	Western Kingbird
Eremophila alpestris	Horned Lark
Corvus corax	Common Raven
Campylorhyncus brunneicapillus	Cactus Wren
Mimus polyglottos	Northern Mocking Bird
Oreoscoptes montanus	Sage Thrasher
Toxostoma lecontei	LeConte's Thrasher
Lanius ludovicianus	Loggerhead Shrike
Sturnella neglecta	Western Meadowlark
Amphispiza belli	Sage Sparrow
Spizella breweri	Brewer's Sparrow
Zonotrichia leucophrys	White Crowned Sparrow

TABLE 1-3. WILDLIFE SPECIES CONFIRMED TO BE PRESENT ON EDWARDS AFB, CALIFORNIA
(Page 3 of 3)

Species Name	Common Name
Amphibians	
Bufo boreas	Western Toad
Reptiles	
Gopherus agassizii	Gopher Tortoise
Sauromalus obesus	Chuckwalla
Callisaurus draconoides	Zebra-tailed Lizard
Phrynosoma platyrhinos	Desert Horned Lizard
Uma scoparia	Mohave Fringe-toed Lizard
Dipsosaurus dorsalis	Desert Iguana
Gambelia (crotophytus) wislizenii	Leopard Lizard
Uta stansburiana	Side-blotched Lizard
Sceloporus magister	Desert Spiny Lizard
Xantusia vigilis	Desert Night Lizard
Cnemidophorus tigris	Western Whiptail
Snakes	
Masticophis flagellum	Coach Whip
Pituophus melanoleucus	Gopher Snake
Crotalus cerastes	Sidewinder
Crotalus scutalatus	Mohave Rattlesnake

1.3.7 Land Use and Demography

1.3.7.1 Land Use. Edwards AFB is home for AFFTC. As such, it supports a variety of military and civilian activities. Current AFFTC operations include: conducting and supporting tests of aircraft systems; conducting flight evaluations and recovery of aerospace research vehicles; and development of aerodynamic decelerators; operating the United States Air Force (USAF) Test Pilot School; managing the Edwards AFB Flight Test Range; and supporting and participating in USAF, Department of Defense (DOD), and other governmental agencies, foreign, and contractor test and evaluation programs. Many of these operations may impact the groundwater at the base (Engineering-Science, 1986).

Prominent surficial features on the base include aircraft hangars, buildings, drainage ditches, culverts, taxiways, runways, and stormwater retention ponds. Local topography of the Main Base has been modified by leveling, filling, and grading to build these structures. Paving over extensive areas has altered the natural drainage system along the Main Base Flight Line. Runoff near the flight line is diverted to the stormwater retention pond or onto Rogers Dry Lake.

1.3.7.2 Demography. Edwards AFB is the permanent home of units of the USAF, U.S. Army, and NASA personnel. In addition, numerous military, civilian, and contractor personnel live in the nearby communities of Lancaster, Palmdale, Rosamond, and Mojave. The base population is concentrated in four main areas: Main Base, South Base, Phillips Laboratory, and Base Housing. These developed areas leave a large amount of acreage of Edwards AFB as open space. Edwards AFB has both a permanent resident population of approximately 8,045 persons (including USAF personnel and dependents), and a daytime base personnel of just over 15,000. The daytime base personnel population is divided among 4,400 military personnel and 10,784 civilian personnel (U.S. Air Force, 1989b).

1.4 INVESTIGATION PROCEDURES

The field investigation procedures were based on the USTI Sampling and Analysis Plan and Work Plan, and the Phase III Addendum VI Work Plan (Earth Tech, 1992b, 1992c, and 1995, respectively).

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1.4.1 Literature Search and Preliminary Activities

A literature search was conducted to better evaluate the geologic, hydrogeologic, and environmental setting of Edwards AFB and to obtain specific information regarding individual tank characteristics (Appendix A2). Information needed to fill data gaps was also sought. Federal and state agency reports, county and municipality reports, and Edwards AFB files were researched. Base files included available design and record drawings for the tanks and reports prepared for previous IRP studies performed at the base. If possible, personal interviews with base personnel were conducted to obtain tank information.

Before removal of the tanks, Edwards AFB obtained the necessary UST removal permits from the Kern County Environmental Health Services Department (KCEHSD) for the proper removal and destruction of steel tanks as scrap metal. KCEHSD-approved UST closure permits were displayed at the work site during UST removals. Any changes to the original permit required the approval of KCEHSD. California Occupational Safety and Health Administration (Cal OSHA) trenching permits were not required for the removal of USTs at these facilities. Before any excavation on base, AFFTC/EM issued digging permits.

1.4.2 Geophysical Surveys

Existing Edwards AFB utility/facility maps were reviewed by the base engineers to identify subsurface features (electrical lines, water lines, etc.) that may have been present above and/or adjacent to the identified tanks and product pipelines that could be encountered during excavation. If no utility/facility maps were available for a tank location, or if there was a potential for subsurface features that may interfere with the tank/pipeline removal, a geophysical survey of the tank location was performed to identify the location of any subsurface features.

All geophysical activities were supervised by a registered geophysicist certified by the state of California. Data collection, reduction, and interpretation followed procedures described in Zohdy (1974), Benson (1984), and U.S. EPA (1987). A detailed log of geophysical activities was maintained by the site geophysicist. Since intrusive work was unnecessary, no special personal protective equipment was required during data acquisition.

The geophysical methods used for these surveys were electromagnetic induction (EMI), ground-penetrating radar (GPR), and magnetic profiling. Technique efficiency depends on the targets of interest, site hydrogeology, and potential interference from surrounding cultural features. Several complementary techniques were used because underground utilities are made of many different materials [ferrous steel, aluminum, polyinyl chloride (PVC) and ceramic]. EMI profiling can locate changes in electrical properties. GPR responds to changes in dielectric properties. Magnetics can detect only ferrous objects. Using a combination of these techniques increases the confidence that buried hazards will be detected and avoided.

In EMI profiling, an alternating current in a transmitting coil magnetically induces an electric field in the ground. The amplitude of this field is measured with a receiving coil. The ratio of the received versus transmitted signal is proportional to soil conductivity. This method can map lateral changes in soil conductivity related to changing soil types, groundwater levels or quality, or man-made metal objects. EMI data were collected with a Radio Detection RD-600 system. Effective penetration depth is about 8 feet.

The GPR method uses the propagation and reflection of radar-frequency waves to locate changing dielectric conditions related to changing soil types and moisture conditions, trench locations, and buried man-made objects (storage tanks, 55-gallon drums, pipes, etc.). Electromagnetic waves are generated and received by a surface antenna. The received signals are reflected from subsurface dielectric interfaces. Penetration depth is very site-dependent and is greatly reduced by clay and/or shallow water. Data was collected with Geophysical Survey System, Inc. Model 3 system using the 120-MHZ and/or 300-MHZ antenna. Effective penetration depth is usually less than 10 feet.

In magnetic profiling, two vertically in-line magnetometers are used to measure the vertical gradient of the earth's naturally occurring magnetic field. This field is locally disturbed by the presence of ferrous objects because they act as magnets (large magnetic susceptibility). This method can find buried man-made steel and iron objects, such as storage tanks and pipelines. Data was collected with a Schonstedt GA-52B Gradiometer. Effective penetration depth is about 10 feet.

A sampling grid was constructed at each estimated tank location. The size of the grid depended upon the estimated tank size. Typically, the grid consisted of parallel profiles spaced about 2 feet apart oriented approximately north-south and a second set of profiles oriented approximately east-west. Data was

continuously measured along all profiles. Anomalous data zones were interpreted in real time by the geophysical operators. Locations of anomalies interpreted as representing buried objects were marked on the ground and posted on the site base map. Geophysical results for each estimated tank location were plotted prior to excavation.

1.4.3 Identification of Underground Storage Tanks

Geophysical surveys were performed to detect the possible presence of USTs at Main Base, North Base, South Base, and Phillips Laboratory. The suspected USTs were associated with historical facilities and were approximately mapped using historical information. EMI, magnetics, and GPR were used to search for the suspected USTs. Procedures for each method are described below.

Electromagnetics. The Radio Detection Model RD-600 was used to detect buried conductive metal objects (ferromagnetic and other metals) to a depth of about 8 feet. Each site was scanned in the passive mode to assess the presence of "live" current-carrying utilities, and then scanned again using the induction mode to detect conductive pipes that may be associated with tanks.

Magnetics. Reconnaissance magnetic measurements were made with a Geometrics G-822L cesium vapor magnetometer or a Schonstedt GA-72 Magnetic Locator magnetometer. The G-822L magnetometer measured the earth's total magnetic field and the GA-72 instrument detected shallowly buried ferrous materials. Audible and visual data displays on both instruments made possible the interpretation of data in real time. Three instruments were used to measure the total magnetic field across the survey area to detect ferromagnetic objects (steel, iron, derivative of magnetite). The instruments consisted of an EDA Omni IV, a GEM GSM-19 Overhauser (both proton precession magnetometors), or a G822L cesium vapor magnetometer. Both total field and vertical gradient data were measured. The magnetometers were calibrated daily according to manufacturer's specifications. Total field data were used to delineate the tank perimeter and to estimate tank mass and burial depth. Vertical gradient data were used to resolve complex anomalies (caused by closely spaced objects) into their component parts and distinguish between shallow and deep targets. Data contour maps were compared with the base map, and magnetic anomalies caused by obvious surface cultural features were removed from consideration. Remaining anomalies were further investigated using radar to further characterize the subsurface objects causing the magnetic anomalies.

Ground-Penetrating Radar. A GSSI SIR3 radar was used to detect buried objects that present a dielectric contrast with the surrounding soils. This method can detect metal and nonmetal objects as deep as 7 feet. The 300 and 500 MHZ antennae were used to provide deep penetration and high spatial resolution, respectively. Radar search was confined to areas where magnetic anomalies were identified.

Results of the search for buried USTs are discussed in Section 4.0. Summary information for the UST searches including methodology, plotted data results, and interpretation of encountered anomalies is provided in the geophysics report issued in February 1997 (Earth Tech, 1997).

1.4.4 Removal of USTs

Coordination of the activities associated with the removal of tanks were made with KCEHSD and Edwards AFB prior to the start of field work. AFFTC/EM was responsible for the duties normally handled by the Kern County Fire Department and the KCEHSD representative was responsible for observing soil sample collection at UST sites.

Excavation to expose the top of tank(s) was done without KCEHSD and AFFTC/EM representatives being present. The base was responsible for draining the initial fuel or waste material from the tanks prior to initiation of tank removal, and recording the disposal/recycling of the tanks contents.

Prior to excavating the UST and/or UST clusters, a work area radius of at least 35 feet from the USTs was established by placement of barricades and/or yellow "caution" tape during the work day. If an excavation was left open overnight, it was secured by placement of a temporary 6-foot-high chain-link fence around the excavation(s). Yellow flashing hazard lights were stationed on each side of the excavation at approximately 15-foot intervals. The soil above and along one side of the USTs was excavated with a backhoe to prepare them for removal. The resulting excavation, if applicable, was considered a confined space and was dealt with in accordance with regulations specified in 29CFR 1926.21, and Cal OSHA. If the tops of USTs were deeper than 5 feet, the sides of the excavation were sloped 1:1.

Product pipelines were backflushed with water into the tanks and disconnected from buildings and sealed with a concrete slurry plug at both ends. The water was removed by Earth Tech and disposed of by the base. All

suction, inlet, and gauge lines were disconnected from the tanks and cut at the excavation edge (approximately 10 feet to 15 feet from the tank).

Before a metal tank was removed or demolished, the tank atmosphere was made inert through displacement of the volatile vapors by using carbon dioxide as dry ice (2 pounds per 100 gallons of tank capacity or 20 pounds per 1,000 gallons of tank capacity). The dry ice was introduced at least 4 hours before the KCEHSD inspection. Earth Tech documented the oxygen content of each steel tank atmosphere by use of an appropriate oxygen analyzer. For the concrete tanks, Earth Tech documented the lower explosive limit (LEL) and the oxygen content of the tank atmosphere with the appropriate meters.

Earth Tech had at the site: (1) documentation of training for personnel in the use of an explosivity/oxygen meter, and (2) monthly equipment calibration records for the explosivity/oxygen meter used during the project, as per Kern County guidelines.

The UST must have met the following purging and/or inert conditions prior to removal:

- Less than 8 gallons of liquid remaining in the tank after removal of the product
- The vapors in tank must have been vented through a vent pipe which discharges at least 10 feet above ground level
- No emissions endangering the health, safety, comfort or repose of another person
- Vent levels will have remained attached to the tank until the Edwards AFB AFFTC/EM authorized its removal.

The presence of the Edwards AFB AFFTC/EM and KCEHSD representatives was requested by Earth Tech at least 2 working days prior to UST removal. The representatives verified the oxygen content (below 12 percent) or otherwise as specified by the KCEHSD representative before the steel tanks were decontaminated off site. The representatives verified the LEL (2 percent) and oxygen content (below 12 percent) of the concrete tank's atmosphere. The representatives also observed soil sample collection beneath the removed tanks and product lines.

1.4.5 Steel Tanks

The steel tank(s) were removed and transported as a hazardous material to a remote location for decontamination and subsequent disposal of the tanks. The steel tanks, once removed, were marked at the site of removal with the permit number and county number (15) conspicuously painted on the side of the tank(s). This was noted on the tracking form issued with the permit (Appendix E). The decontamination contractor was authorized to process uncleaned storage tanks by Cal EPA. The contractor decontaminating the tank had a copy of their "decontamination" procedure on file with KCEHSD. The tank was transported as a non-RCRA hazardous waste solid (empty storage tank) and a Uniform Hazardous Waste Manifest (UHWM) was used.

Remote decontamination included purging the vapors with carbon dioxide into a carbon adsorption system. The tanks were cut open and the solid material remaining in the tanks (residue) was removed by shovel. The interior walls were scraped and brushed and rinsed to remove the remaining residues. All material generated during the cleaning process was transported to licensed disposal facilities. The tanks were monitored for total hydrocarbons, LEL and oxygen concentrations. Once clean, the tank were transported to a metal recycler for final destruction.

The tracking card issued with the closure permit accompanied the tank(s) to its final destination. The state-certified recycling facility accepting the tank for scrap metal signed and returned the tracking card to KCEHSD upon receipt of the tank(s) as per UT-30 guidelines (KCEHSD, 1990b). AFFTC/EM was responsible for ensuring that this card was received by KCEHSD within 14 days of tank departure. All tanks were tracked for proper decontamination and disposal as scrap metal in this manner. The Air Pollution Control District was notified in writing within 1 week after the removal of any gasoline tanks.

If tanks were cut on site, a non-sparking cutting device was used. If "hot work" (i.e., cutting) was required, the tank was certified as suitable by a marine chemist or a professional engineer (as a special inspector who had written approval from KCEHSD) before commencing work. The decontamination contractor made prearrangements with the salvage operator at the recycling facility for acceptance of tank(s).

1.4.6 Concrete Tank Removal

Concrete tank interiors were washed using a minimum of 2,000 psi high-pressure water rinse with detergent. Loose scale, sludge and rinsewater was removed by a vacuum truck. When the sludge and other debris had been removed and the LEL reading was 2 percent or less throughout the tank interior, the washing ceased.

The UST was be demolished and all debris resulting from demolition activities was removed and disposed of. If the concrete was heavily stained, as judged by the KCEHSD representative, a sample of the concrete was collected and analyzed. If the laboratory results showed no evidence of contamination of the concrete or it was judged lightly stained, the demolition debris was disposed as noncontaminated at a local landfill. If the concrete sample contained levels of benzene, toluene, ethylbenzene, and total xylenes (BTEX) that exceeded the KCEHSD action levels [100 mg/kg (gasoline), and 0.3 mg/kg, 0.3 mg/kg, 1.0 mg/kg and 1.0 mg/kg for BTEX, respectively], the concrete was disposed as contaminated concrete. Once all concrete debris was removed, soil samples under the tank were collected.

1.4.7 Excavation Backfill Monitoring

After the UST was removed from the ground, the soil samples had been collected, and field headspace samples had been analyzed, the excavation was compacted to a relative 90 percent compaction (unverified) with soils removed from the excavation. Imported fill material (either sand or gravel) obtained from a commercial source was used to make up the difference of the removed UST volume.

If headspace analysis (and/or visual indications) of soils indicated hydrocarbons were present (greater than 50 ppm headspace analysis), the excavated soils were backfilled and compacted. The compacted soil was covered with 6-mil thick black plastic sheeting to prevent volatilization of hydrocarbons and infiltration of possible rainwater into the excavated soil. The plastic sheeting also served as a delineator between the excavated soil and the imported fill material. Imported fill material was then be compacted into the lined excavation. In the event laboratory analytical results indicated the tested soils exceeded Kern County's action limits for the parameters tested, these sites were left as is until site investigations were approved by Edwards AFB and KCEHSD at a later date.

1.4.8 Sampling Equipment Decontamination Procedures

A decontamination station was set up in a clean area away from the excavation operation which consisted of a plastic tarp and/or waterproof container to contain decontamination water. The resulting decontamination water was added to the storage tank rinsewater or containerized in DOT-17H, 55-gallon drums for subsequent disposal. The backhoe bucket was decontaminated by steam cleaning (or pressure washing) after each sample was collected, between tank sites, and upon completion of field activities. Other related equipment and work areas were steam cleaned. Special attention was given to all vehicle tires to ensure rocks and other small debris were not picked up when working in the flight line area.

Tools and materials used during sampling were thoroughly cleaned prior to the onset of sampling and between the collection of each sample to minimize cross contamination and maintain the integrity of samples collected for analysis. The cleaning procedures used for materials and equipment during this study are summarized in Table 1-4. Sampling equipment was washed in a series of 5-gallon plastic buckets containing appropriate wash and rinse solutions. The final rinse with Type II water, methanol and hexane was provided by using Teflon™ dispenser bottles. Provisions were made to contain the solutions used during the equipment decontamination process.

1.4.9 Waste Handling

1.4.9.1 Soils. All excavated soil were backfilled and compacted into the original excavation site. If headspace analysis of the excavated soil indicated organic vapor compounds in excess of 50 ppm, the excavated soil was covered with plastic sheeting with the remainder of excavation backfilled with clean soil. This was done to control migration of vapors and/or surface water and to delineate the excavated soil and the imported backfill material. The site was recommended for further investigation if laboratory analyses indicated contaminant levels were above Kern County action levels.

1.4.9.2 Decontamination Fluids. Liquids from the decontamination of field equipment and vehicles were collected from the wash rack and drums, and pumped to a holding tank for later analysis and disposal.

TABLE 1-4. SUMMARY OF EQUIPMENT CLEANING PROCEDURES

EQUIPMENT/MATERIAL DESCRIPTION	CLEANING PROCEDURE	DRYING PROCEDURE
Backhoe Bucket	A	D
Hand Trowel or Spatula	B	E or F, G
Sample Containers	C	E
Stainless Steel Sample Tubes	B	H, D
Portable Ice Coolers	I	D or F

Cleaning and Drying Procedures:

A - High pressure/hot water steam cleaner

B - Alconox™ detergent wash, fresh water rinse, rinse with Type II water, rinse with methanol, rinse with hexane

C - Cleaned and prepared in accordance with I-Chem sample container cleaning procedures

D - Air dried

E - Air dried on racks or plastic tarps

F - Dried with lint-free, cloth towels

G - Wrapped in plastic or aluminum foil prior to use

H - Baked in oven at Field Services Office

I - Wiped clean with detergent solution

1.4.9.3 Disposable Protective Clothing and Supplies. All disposable protective clothing and supplies were presumed hazardous and were placed in 55-gallon drums or bulk containers. Containers were be sealed and transported by truck to one of the previously mentioned temporary storage areas. Drum disposal was managed by the base POC.

1.4.10 Environmental Sampling

The majority of samples collected consisted of soil samples (approximately 393 samples), except for three groundwater samples collected beneath the USTs at the direction of the KCEHSD representative. Two of these three water samples were collected in addition to soil samples collected beneath USTs M064 and M065 at Facility 1899. The third sample was collected in lieu of a soil sample due to the amount of groundwater in the excavation for UST P074 at Facility 8657.

Soil samples were obtained below the base of the tank/pipelines at the time of tank removal under the observation of a KCEHSD representative. For tanks with a capacity of less than 1,000 gallons, soil samples were collected for analyses at 2 feet and at 6 feet beneath the center of the base of the tank. For tanks with a capacity greater than 1,000 gallons and less than or equal to 10,000 gallons, soil samples were collected for analyses at depths of 2 feet and 6 feet below the tank at points one-third of the distance from each end. For tanks with a capacity greater than 10,000 gallons, soil samples were collected for analyses at depths of 2 feet and 6 feet below the tank at the center and at one-third of the distance from each end. In the event solid bedrock existed below the tank, the soil below the tank was sampled, as close as possible to the required depths.

The soil sampling process consisted of the backhoe operator setting the soil-filled bucket down at least 2 feet away from the edge of the excavation. The first 3 inches of soil were scraped off the soil in the bucket using a clean stainless steel spatula or trowel. A precleaned stainless steel tube, 2 inches in diameter by 6 inches long, was pressed by hand into the soil in the middle of the bucket (or other area directed by the KCEHSD representative). The soil-filled tube was removed and each end capped with Teflon™ paper and plastic end caps. A custody seal was placed over each end and a properly completed sample label affixed to the tube. The samples were stored in an ice-filled cooler until transport to the laboratory.

The groundwater sampling process consisted of samples being collected using a Teflon ™ bailer. A stainless steel chain was used to lower sampling equipment in the excavation. Samples were collected by placing the Teflon ™ sampling nipple into the bottom of the bailer and allowing the sample to flow directly into the sample container(s). Samples for volatile organic analysis (VOA) were collected in 40-mL glass bottles allowing no headspace. This was accomplished by filling the bottle until a meniscus was over the top, and fitting the cap securely.

1.4.11 Recordkeeping

Daily Logs

All information pertinent to a field survey and/or sampling was recorded on appropriate data sheets and/or in a project field logbook which was a waterproof, bound book with consecutively numbered pages. Entries in the logbook were made in waterproof ink, and included the following:

- Name and address of field contact (on logbook cover)
- Names and affiliations of personnel on site
- General description of each day's field activities
- Documentation of weather conditions during sampling
- Location of sampling (e.g., UST number as description).

For each sample the following was provided:

- Sample distribution (e.g., laboratory, hauler, etc.)
- Observations of sample or collection environment, if needed
- Identification of sampling device
- Any field measurements made such as air monitoring, etc.
- Sequence of collection
- Type of sample matrix (e.g., soil, groundwater, etc.)
- Estimated volume of liquid samples
- Date and time of collection
- Field sample identification number

- Sampler's name
- Sample type (composite, split, etc.)
- Preservatives used.

The bottom of each page in the logbook was signed or initialed by the person making the entries.

In addition to records kept in the field log book, the Underground Tank Removal Soil Sampling Report data sheets (Figures 1-12a and 1-12b) was completed for each tank as well as the associated pipeline.

Corrections to Documentation

All original data recorded in field logbooks, on sample tags, or in custody records, as well as other data sheet entries, was written with waterproof ink. If an error (e.g., incorrect date or sample depth) was made on the document, corrections were made simply by crossing a line through the error (in such a manner that the original entry can still be read) and entering the correct information. All corrections were initialed and dated.

Photographs

Photographs, if taken, were recorded in the appropriate logbook section or in additional sections as needed. Information recorded included:

- Roll and frame number
- Time
- Photographer
- Location, e.g., "east side of Building 3"
- Subject, e.g., "UST XX"
- Significant features
- Names of any personnel included in the photograph.

EARTH TECH

Underground Tank Removal Soil Sampling Report

Project Name: _____ Recorded by: _____

Project Number: _____ Date: _____

Location: _____ Checked by: _____

Closure Permit No.: _____ Date: _____

Reference Logbook Pg.: _____

Tank Information

Tank I.D. No.: _____ Volume Liquids Removed: _____ (gal.s)

Tank Contents: _____ Date: _____

Tank Size: _____ Rinse Water Used: _____ (gal.s)

Material of Construction: _____ Dry Ice Used: _____ (lb.s)

Time: _____

Comments (tank dimensions): _____

Field Equipment

Explosivity Meter I.D. No.: _____ OVA I.D. No.: _____

Readings: (%LEL) _____ (%O_2): _____

Time: _____

Approval: _____

Samples

Sample No.	Depth Below Grade (ft)	Depth Below Tank Bottom (ft)	OVA Headspace (ppm)	Time	Notes (sample description staining, etc.)
EDWRD-					
EDWRD-					
EDWRD-					
EDWRD-					
EDWRD-					
EDWRD-					
EDWRD-					
EDWRD-					
EDWRD-					
EDWRD-					
EDWRD-					
EDWRD-					

Remarks (site observations, soil descriptions, etc.)

Form F-1028A
5/1/95

USTI Report

Underground Tank Removal Soil Sampling Report

Date 2-97		Figure
Project No. 11226	Edwards AFB	1-12a

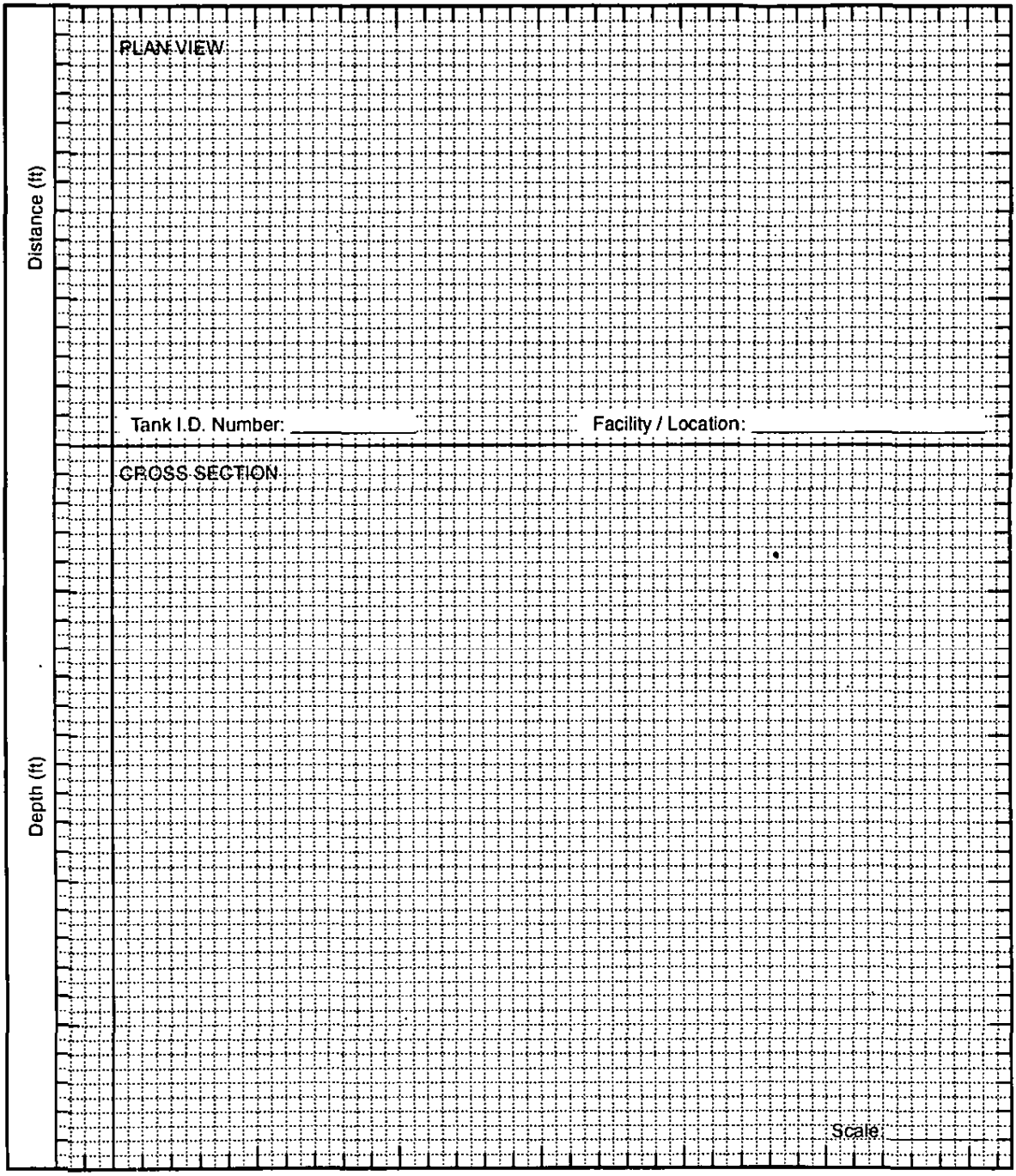
11226.0806

EARTH TECH

Underground Tank Removal
Soil Sampling Locations

Project Name: _____ *Recorded by:* _____ Date: _____

Project Number: _____ Checked by: _____ Date: _____



Field book reference (page): _____ Attachments: _____

Form F-1028B
5/1/95

USTI Report

Underground Tank Removal Soil Sampling Report

Date 2-97		Figure
Project No. 11226	Edwards AFB	1-12b

11226.0808

4256 75

1.4.12 Identification of Field Personnel

The following subcontractors were retained for specific tasks required during the USTI:

- Jones Construction and Maintenance - UST removal
- K.E.S. - UST Removal
- MJK Construction - UST removal
- MP Environmental Services, Inc. - UST removal
- Quanterra - Laboratory services.

Subcontractors and their field team members included:

Jones Construction and Maintenance
P.O. Box 8142
Long Beach, California 90808
License number A-508565
(310) 835-3331
Mr. Glen Jones - Field Supervisor/ President

K.E.S.
P.O. Box 5337
Bakersfield, California 93388
License number A-432372
(805) 589-7143
Chris De Armon - Proposal Manager
Steve Howard - Field Supervisor

MJK Construction
107 Carob Street
Compton, California 90220
License number A586870
Michael Kissick - President
Richard Mosshart - Field Supervisor

MP Environmental Services, Inc.
3400 Manor Street
Bakersfield, California 93308
License number A613706
(805) 393-1151
Gina Blankenship - Vice President
Jack Vechil - Field Supervisor

Quanterra Laboratory
1721 South Grand Avenue
Santa Ana, California 92705
(714) 258-8610
Sabina Suduko - Project Manager

The base point-of-contact and Air Force Technical Project Manager for this project was Mr. Donald Cowan at:

Air Force Flight Test Center/Environmental Management Restoration Division
AFFTC/EMR - Building 2650A
5 East Popson Avenue
Edwards AFB, CA, 93524-1130
(805) 277-1439

The HAZWRAP Technical Project Manager for this project was Mr. Ken White at:

HAZWRAP West
151 North Sunrise Avenue, Suite 1202
Roseville, CA 95661
(916) 773-1715

The primary regulatory agency representative for this project was Mr. Wesley Nicks at:

Kern County Environmental Health Services Department
2700 "M" Street, Suite 300
Bakersfield, CA 93301
(805) 861-3636

The following key individuals from Earth Tech participated in activities involving the UST tank removals.

Ray Sugiura	Program Manager/Registered Geologist
Derrick Coleman	Project Manager/Hydrogeologist
John Kaczmarski	Field Coordinator/Environmental Scientist
Gary Bender	Geologist
David Didier	Geologist
Elisabeth Fruth	Project QA Manager
Bret Glidden	Data Analyst
Irma Guerre	Geologist
Dale Hennon	Geophysicist
Kerry Hennon	Geophysicist Manager
James Jackman	Geologist
Janet Kiang	QA Coordinator
Rod Lazo	Geologist
Robert Mongrain	Geologist
Roger Norris	Geophysicist

David Peck	Geologist
Osman Taban	Geologist
Sanne Thompson	Analyst
Angela Wranic	Environmental Scientist
Greg Yanagihara	Geologist

2.0 PROJECT SUMMARY

The USTI program was conducted to remove USTs; and to provide recommendations regarding the tank sites. Typically, these recommendations, based on the field investigation and analytical data results, were in two general categories as follows: 1) no further investigation and/or closure; 2) further investigation consisting of site characterization and/or remedial action.

The USTI was conducted in phases due to the large number of USTs on base (358 USTs, see Table 2-1 for a complete listing and Appendix A1 for cross-reference lists). The results and recommendations for the Phase II USTs (see Table 2-2) and Phase III (Parts 1 and 2) USTs (see Table 2-3) are included in this edition of the USTI Technical Report (Section 4.0). In addition to Phase II and III removed USTs, investigations were conducted for 19 tank sites (13 sites investigated during Phase II and six sites during Phase III), where the UST had been previously removed but no samples were collected at the time of removal. Earth Tech reexcavated the tank sites, confirmed that a UST had been located at the site (based on field observations), and collected soil samples at the presumed location of where the bottom of the UST had been placed. The results of the excavation operations and soil sample analyses are also included in this technical report. Phase I removed USTs have been previously discussed in another technical report (Earth Tech, 1992a). The following is a brief overview of the three removal phases.

Removal Phase		
	O	Removed by others
	I	Removed by Earth Tech (April 1991 to May 1991)
	II(1)	Removed by Earth Tech (April 1992 to March 1993)
	II(2)	Removed by Earth Tech (November 1993 to April 1994)
	II(3)	Removed by Earth Tech (June 1994 to July 1994)
	II(4)	Removed by Earth Tech (August 1994 to October 1994)
	II(5)	Investigated by Earth Tech (November 1994 to March 1995)
	III(1)	Removed by Earth Tech (June 1995 to August 1995)
	III(2)	Removed by Earth Tech (July 1996 to February 1997)

Figure 2-1 shows the quadrants from which the Phase II and III USTs were removed. These quadrants are based on the unique, four-digit, alphanumeric identification number assigned to each UST.

TABLE 2-1. Complete List of Edwards AFB USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet
1	0012	S038	570113C	1,000	diesel	OU02	PRL 341	Closed	242
2	0112*	S196	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
3	0112*	S197	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
4	0112*	S198	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
5	0112*	S199	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
6	0112*	S200	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
7	0112*	S201	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
8	0130	S016	570003C	4,000	JP-8	OU02	Site 15	Active	189
9	0137*	S031	570196C	500	MOGAS/diesel	OU02	PRL 22	Closed	189
10	0145	S011	570002C	2,000	diesel	OU02	Site 15	Active	189
11	0145	S017	570001C	2,000	battery acid	OU02	Site 15	Active	189
12	0148*	S202	570159C	25,000	AVGAS	OU02	Site 5	Remediate	189
13	0148*	S203	570159C	25,000	AVGAS	OU02	Site 5	Remediate	189
14	0148*	S204	570159C	25,000	AVGAS	OU02	Site 5	Remediate	189
15	0148*	S205	570159C	25,000	AVGAS	OU02	Site 5	Remediate	189
16	0148*	S228	570159C	10,000	water control	OU02	Site 5	Clean	189
17	0148*	S229	570159C	750	fuel/water	OU02	Site 5	Clean	189
18	0148*	S238	570159C	750	fuel/water	OU02	Site 5	Clean	189
19	0149*	S206	570158C	25,000	AVGAS	OU02	Site 5	Closed	189
20	0149*	S207	570158C	10,000	AVGAS	OU02	Site 5	Closed	189
21	0150	S033	570182C	285	MOGAS	OU02	PRL 222	Closed	243
22	0154*	S234	570197C	500	MOGAS	OU02	PRL 220	Closed	243
23	0173*	S191	570160C	50,000	AVGAS/POL	OU02	Site 5	Remediate	189
24	0173*	S192	570160C	50,000	AVGAS/POL	OU02	Site 5	Remediate	189
25	0173*	S193	570160C	50,000	AVGAS/POL	OU02	Site 5	Remediate	189
26	0173*	S194	570160C	50,000	AVGAS/POL	OU02	Site 5	Remediate	189
27	0173*	S195	570160C	50,000	AVGAS/POL	OU02	Site 5	Remediate	189
28	0181	S001	570065C	15,000	diesel	OU02	PRL 94	Remediate	190
29	0181	S018	570005C	2,000	battery acid	OU02	PRL 94	Active	190
30	0181	S019	570065C	750	diesel	OU02	PRL 94	Remediate	190
31	0181	S039	570065C	650	diesel	OU02	PRL 94	Remediate	190
32	0182	S002	570066C	5,000	diesel	OU02	PRL 94	Remediate	190
33	0204	S003	570070C	2,000	diesel	OU02	PRL 94	Closed	190
34	0262	S025	570189C	300	fuel oil	OU02	PRL 112	Closed	270
35	0273	S084	570118C	3,600	waste water/ jet	OU02	Site 14	Remediate	217
36	0300	S004	570135C	500	diesel	OU02	PRL 82	Closed	190
37	0300	S006	570135C	6,000	waste oil	OU02	PRL 82	Rec Closure	190
38	0301*	S122	570170C	12,000	gasoline	OU02	PRL 71	Closed	189
39	0310	S007	570135C	15,000	jet fuel	OU02	PRL 82	Closed	190
40	0310	S008	570135C	15,000	jet fuel	OU02	PRL 82	Closed	190
41	0324*	S134	570167C	2,200	fuel oil	OU02	PRL 88	Closed	189
42	0325*	S135	570167C	1,000	fuel oil	OU02	PRL 88	Closed	189
43	0329*	S136	570168C	500	fuel oil	OU02	PRL 88	Closed	189
44	0369	S012	570068C	7645	diesel	OU02	PRL 80	Closed	190
45	0402*	S141	570161C	500	fuel oil	OU02	PRL 92	Closed	190
46	0402*	S142	570161C	500	fuel oil	OU02	PRL 92	Closed	190
47	0407*	S143	570162C	500	fuel oil	OU02	PRL 92	Closed	190
48	0407*	S144	570162C	500	fuel oil	OU02	PRL 92	Closed	190

TABLE 2-1. Complete List of Edwards AFB USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet
49	0408*	S145	570162C	500	fuel oil	OU02	PRL 92	Closed	190
50	0408*	S146	570162C	500	fuel oil	OU02	PRL 92	Closed	190
51	0512	S013	570132C	284	diesel	OU02	PRL 408	Closed	351
52	0601	S026	570096C	1,000	unleaded	OU02	PRL 98	Closed	216
53	0668	S014	570086C	330	diesel	OU02	PRL 221	Remediate	216
54	0710	S028	570108C	1,000	waste oil/JP-10	OU02	PRL 364	Active	216
55	0712	S029	570109C	1,000	waste oil/JP-10	OU02	PRL 364	Active	243
56	0712*	S148	570109C	500	fuel oil	OU02	PRL 105	Closed	242
57	0720	S030	570111C	1,000	waste JP-10	OU02	PRL 364	Active	243
58	0723*	S152	570183C	1,450	fuel oil	OU02	PRL 105	Characterize	242
59	0736*	S154	570185C	10,000	fuel oil	OU02	PRL 105	Characterize	242
60	0737*	S155	570186C	850	fuel oil	OU02	PRL 105	Closed	242
61	0739*	S156	570187C	500	fuel oil	OU02	PRL 105	Characterize	242
62	0791	S015	570084C	500	diesel/MOGAS	OU02	PRL 108	Closed	242
63	0805*	S225	570198C	500	fuel oil	OU02	PRL 97	Closed	216
64	0805*	S226	570198C	500	fuel oil	OU02	PRL 97	Closed	216
65	0814*	S227	570191C	3,000	gasoline	OU02	PRL 99	Characterize	216
66	0816*	S162	570188C	5,000	gasoline	OU02	PRL 95	Characterize	216
67	0816*	S233	570188C	1,000	heating oil	OU02	PRL 95	Characterize	216
68	0940*	S165	570156C	3,000	fuel oil	OU02	Site 5	Remediate	189
69	0940*	S166	570156C	12,000	waste fuel oil	OU02	Site 5	Remediate	189
70	0940*	S167	570156C	12,000	diesel	OU02	Site 5	Clean	189
71	0940*	S168	570156C	12,000	lube oil	OU02	Site 5	Clean	189
72	0940*	S169	570156C	12,000	fuel oil	OU02	Site 5	Clean	189
73	0948*	S170	570169C	5,000	fuel oil	OU02	PRL 70	Closed	189
74	1014	M080	570123C	550	fuel oil	OU01	PRL 342	Closed	188
75	1020	M001	570045C	4,000	diesel	OU01	PRL 377	Closed	188
76	1030	M085	570119C	165	diesel	OU01	PRL 365	Closed	188
77	1200	M086	570083C	165	fuel oil	OU01	Site 43	Closed	161
78	1209	M002	570131C	9,000	diesel	OU01	PRL 343	Closed	161
79	1209	M003	570131C	9,000	diesel	OU01	PRL 343	Closed	161
80	1301	M055	570116C	500	diesel	OU01	PRL 344	Active	215
81	1301	M131	570116C	300	diesel	OU01	PRL 344	Closed	215
82	1399	M059	570117C	600	diesel	OU01	Site 17	Closed	162
83	1401	M119	570041C	550	stoddard solvent	OU01	Site 17	Closed	162
84	1401	M120	570041C	550	stoddard solvent	OU01	Site 17	Closed	162
85	1404	M042	570009C	2,000	diesel	OU01	Site 17	Active	162
86	1404	M043	570009C	6,000	JP-8	OU01	Site 17	Active	162
87	1404	M044	570009C	4,000	unleaded	OU01	Site 17	Active	162
88	1404	M045	570009C	550	waste fuel/water	OU01	Site 17	Active	162
89	1404	M097	570009C	4,000	MOGAS	OU01	Site 17	Characterize	162
90	1404	M098	570009C	6,000	JP-4	OU01	Site 17	Characterize	162
91	1404	M126	570009C	6,000	JP-4	OU01	Site 17	Characterize/9	162
92	1418	M004	570047C	25,000	unleaded gas	OU01	PRL 46	Remediate	162
93	1418	M005	570047C	25,000	unleaded gas	OU01	PRL 46	Remediate	162
94	1419	M006	570047C	25,000	diesel	OU01	PRL 46	Inactive	162
95	1425	M105	570091C	550	fuel oil	OU01	Site 17	Closed	162
96	1425	M106	570091C	5,250	fuel oil	OU01	Site 17	Closed/42	162

REMEDIATE X

TABLE 2-1. Complete List of Edwards AFB USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet
97	1430	M046	570060C	1,100	diesel	OU01	Site 45	Characterize	161
98	1430	M047	570060C	1,100	unleaded	OU01	Site 45	Characterize	161
99	1430	M114	570060C	5000	OWS	OU01	Site 45	Closed	161
100	1432	M081	570100C	300	diesel	OU01	Site 45	Closed	161
101	1440	M112	570042C	9,500	diesel	OU01	Site 17	Closed	162
102	1502	S232	570199C	275	MOGAS	OU02	PRL 219	Closed	163
103	1505	M056	570081C	500	diesel	OU02	PRL 223	Closed	163
104	1506	M061	570115C	500	diesel	OU02	PRL 223	Closed	163
105	1575	M134	570080C	2,000	diesel	OU07	PRL 399	Closed	159
106	1601*	S230	570165C	500	fuel oil	OU02	PRL 89	Closed	189
107	1604	M007	570134C	1,100	diesel	OU01	Site 17	Closed	162
108	1608	M008	570130C	2,000	diesel	OU01		Rec Closure	162
109	1616	M009	570082C	1,200	diesel	OU01	PRL 49	Remediate	162
110	1618	M062	570082C	100	diesel	OU01	PRL 49	Rec Closure	162
111	1619	M010	570088C	6,130	soap	OU01	PRL 397	Closed	162
112	1668*	S173	570171C	1,700	No. 3 light oil	OU02	PRL 90	Closed	190
113	1700*	S231	570165C	500	fuel oil	OU02	PRL 89	Closed	189
114	1720	M111	570101C	550	diesel	OU01	Site 52	Closed	162
115	1724	M011	570059C	50,000	JP-4	OU01	Site 11	Active	135
116	1724	M012	570059C	50,000	JP-4	OU01	Site 11	Active	135
117	1724	M013	570059C	50,000	JP-4	OU01	Site 11	Active	135
118	1724	M014	570059C	50,000	JP-4	OU01	Site 11	Active	135
119	1724	M015	570059C	2,000	waste oil/ jet fuel	OU01	Site 11	Remediate	135
120	1735	M143	570192C			OU01	Site 55	Active	
121	1768*	S174	570171C	1,700	No. 3 light oil	OU02	PRL 90	Closed	190
122	1824	M093	570046C	1,000	waste oil	OU01	Site 65	Remediate	135
123	1824	M094	570046C	1,000	unleaded/leaded	OU01	Site 65	Remediate	135
124	1824	M095	570046C	1,000	unleaded/leaded	OU01	Site 65	Remediate	135
125	1824	M096	570046C	5,250	leaded	OU01	Site 65	Remediate	135
126	1839*	S237	570166C	500	heating oil	OU02	PRL 92	Closed	190
127	1862	M109	570120C	1,000	leaded	OU01	Site 20	Remediate	108
128	1862	M110	570120C	1,200	unleaded	OU01	Site 20	Remediate	108
129	1868*	S175	570172C	1,700	No. 3 light oil	OU02	PRL 90	Closed	190
130	1873	M016	570049C	50,000	JP-4	OU01	Site 18	Characterize	108
131	1873	M017	570049C	50,000	JP-8	OU01	Site 18	Characterize	108
132	1886	M087	570048C	1,500	regular	OU01	Site 18	Remediate	108
133	1899	M064	570044C	20,000	JP-4	OU01	Site 66	Remediate	135
134	1899	M065	570044C	20,000	JP-4	OU01	Site 66	Remediate/TC	135
135	1899	M099	570044C	275	waste JP-4/water	OU01	Site 66	Closed	135
136	1939*	S236	570166C	500	heating oil	OU02	PRL 92	Closed	190
137	1968*	S176	570172C	1,700	No. 3 light oil	OU02	PRL 90	Closed	190
138	2004*	S239	570201C	55	fuel oil	OU02	PRL 76	Closed	190
139	2005*	S178	570173C	750	No. 3 light oil	OU02	PRL 91	Closed	190
140	2009*	S179	570173C	1,000	fuel oil	OU02	PRL 91	Closed	190
141	2013*	S180	570173C	750	fuel oil	OU02	PRL 91	Closed	190
142	2110	M040	570058C	450	waste oil	OU08	Site 297	Closed /66	161
143	2110	M048	570058C	6,000	diesel	OU08	Site 297	Active	161
144	2110	M049	570058C	10,000	unleaded	OU08	Site 297	Active /19	161

TABLE 2-1. Complete List of Edwards AFB USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet
145	2110	M050	570058C	10,000	unleaded	OU08	Site 297	Active	161
146	2110	M051	570058C	10,000	unleaded	OU08	Site 297	Active	161
147	2110	M052	570058C	10,000	unleaded	OU08	Site 297	Remediate	161
148	2110	M079	570058C	10,000	sand/gasoline	OU08	Site 297	Remediate	161
149	2110	M088	570058C	10,000	sand/gasoline	OU08	Site 297	Remediate	161
150	2340	M018	570069C	10,000	diesel	OU08	Site 298	Remediate	134
151	2340	M019	570069C	10,000	unleaded	OU08	Site 298	Remediate	134
152	2340	M020	570069C	10,000	MOGAS/unleade	OU08	Site 298	Remediate	134
153	2340	M021	570069C	12,000	diesel	OU08	Site 298	Remediate	134
154	2340	M100	570069C	100	waste oil	OU08	Site 298	Remediate	134
155	2450	M022	570077C	2,000	waste oil	OU08	Site 299	Remediate	134
156	2506	M139	570220C	5,000	waste POL	OU08	PRL 419	Remediate	161
157	2580	M023	570112C	4,030	diesel	OU01	PRL 367	Closed	161
158	2580	M101	570112C	211	waste fuel oil	OU01	PRL 367	Closed	161
159	2601	M102	570107C	550	diesel	OU01	PRL 345	Closed	161
160	2649	M091	570106C	400	diesel	OU01	PRL 346	Closed	161
161	2649	M092	570106C	400	diesel	OU01	PRL 346	Closed	161
162	2700*	S182	570202C	300	fuel oil	OU02	PRL 91	Closed	190
163	2802*	S183	570174C	300	fuel oil	OU02	PRL 89	Remediate	189
164	2803*	S184	570174C	300	fuel oil	OU02	PRL 89	Characterize	189
165	2803*	S224	570174C	1,500	fuel oil	OU02	PRL 89	Rec Closure	189
166	2860	M054	570095C	550	diesel	OU01	Site 59	Remediate	162
167	2902*	S185	570174C	400	fuel oil	OU02	PRL 89	Remediate	189
168	2903*	S223	570165C	1000	fuel oil	OU02	PRL 89	Closed	189
169	3103*	S220	570175C	1,700	fuel oil	OU02	PRL 88	Remediate	189
170	3203*	S218	570175C	375	fuel oil	OU02	PRL 88	Rec Closure	189
171	3203*	S219	570175C	375	fuel oil	OU02	PRL 88	Remediate	189
172	3203*	S221	570200C	3000	fuel oil	OU02	PRL 88	Clean	189
173	3500	M057	570122C	1,000	waste oil	OU08	PRL 347	Closed	134
174	3503	M058	570105C	550	diesel	OU08	PRL 347	Closed	134
175	3510	M024	570087C	1,500	leaded gas	OU8	Site 224	Closed	134
176	3510	M041	570087C	1,000	waste oil	OU8	Site 224	Rec Closure	134
177	3510	M113	570087C	1,500	leaded gas	OU8	Site 224	Closed	134
178	3512	M067	570136C	10,000	MOGAS	OU08	Site 255	Remediate	134
179	3512	M068	570136C	10,000	MOGAS	OU08	Site 225	Remediate	134
180	3800	M026	570021C	3,000	waste lube oil	OU01	Site 23	Remediate	135
181	3800	M069	570021C	3,000	waste lube oil	OU01	Site 23	Remediate	135
182	3800	M070	570021C	300	waste lube oil	OU01	Site 23	Remediate	135
183	3800	M071	570021C	3,000	waste fuel	OU01	Site 23	Remediate	135
184	3800	M072	570021C	1,000	waste JP-4	OU01	Site 23	Remediate	135
185	3800	M073	570021C	3,000	waste lube oil	OU01	Site 23	Remediate	135
186	3800	M074	570021C	10,000	diesel	OU01	Site 23	Remediate	135
187	3800	M075	570021C	8,000	OWS	OU01	Site 23	Remediate	135
188	3804	M082	570092C	950	JP-4/water	OU01	Site 24	Closed	135
189	3804	M083	570092C	950	JP-4/water	OU01	Site 24	Closed	135
190	3804	M084	570092C	950	JP-4/water	OU01	Site 24	Characterize	135
191	3804	M121	570092C	950	JP-4/water	OU01	Site 24	Closed /80	135
192	3804	M142	570092C	1,000	JP-4/water	OU01	Site 24	Active	135

TABLE 2-1. Complete List of Edwards AFB USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet	
193	3807	M027	570093C	35,000	JP-8	OU01	Site 24	Inactive	135	I
194	3807	M028	570093C	35,000	JP-8	OU01	Site 24	Inactive	135	I
195	3807	M029	570093C	35,000	JP-8	OU01	Site 24	Inactive	135	I
196	3807	M030	570093C	25,000	JP-8	OU01	Site 24	Inactive	135	I
197	3807	M089	570093C	750	waste JP-4/water	OU01	Site 24	Inactive	135	I
198	4214	N014	570012C	8,000	regular	OU05	PRL 350	Closed	27	
199	4214	N018	570012C	10,000	unleaded	OU05	PRL 350	Closed	27	
200	4217	N089	570225C	240,000	washwater	OU05	PRL 369	Closed	12	
201	4220	N016	570012C	550	JP-5/JP-4	OU05	PRL 348	Closed	27	
202	4221	N017	570012C	500	diesel	OU05	PRL 349	Closed	12	
203	4231	N019	570208C	20,000	diesel	OU05	Site 289	Closed	27	
204	4232	N078	570207C	800	waste, chem	OU05	PRL 195	Closed	27	
205	4233	N048	570205C	800	wastewater	OU05	PRL 196	Closed	12	
206	4233	N088	570205C	100	wastewater	OU05	PRL 196	Closed	12	
207	4234	N049	570209C	1200	wastewater	OU05	PRL 197	Closed	12	
208	4234	N083	570209C	800	wastewater	OU05	PRL 197	Closed	12	
209	4234	N084	570209C	600	wastewater	OU05	PRL 197	Closed	12	
210	4235	N023	570206C	800	wastewater	OU05	Site 284	Closed	12	
211	4236	N079	570205C	600	waste, chem	OU05	PRL 198	Closed	12	
212	4237	N080	570206C	800	waste, chem	OU05	PRL 199	Closed	12	
213	4241	N069	570212C	800	wastewater	OU05	Site 285	Closed	12	
214	4243	N070	570212C	800	wastewater	OU05	PRL 200	Closed	12	
215	4245	N085	570214C	800	wastewater	OU05		Closed	12	
216	4260	N086	570215C	600	wastewater	OU05		Closed	12	
217	4267	N087	570216C	300	wastewater	OU05		Closed /100	12	
218	4275*	N026	570209C	550	diesel	OU05	PRL 201	Closed	12	
219	4282	N082	570210C	400	wastewater	OU05	PRL 283	Closed	27	
220	4283	N028	570211C	500	wastewater	OU05	PRL 286	Closed	12	
221	4284	N071	570211C	400	wastewater	OU05	PRL 202	Closed	12	
222	4286	N073	570213C	400	wastewater	OU05	PRL 203	Closed	12	
223	4305	N005	570072C	3,000	diesel	OU10	Site 229	Remediate	28	
224	4316*	N051	570177C	500	heating oil	OU10	PRL 246	Closed	28	
225	4316*	N052	570177C	300	heating oil	OU10	PRL 246	Closed	28	
226	4317	N053	570217C	500	MOGAS	OU10	PRL 255	Closed	28	
227	4318	N006	570133C	500	diesel	OU10	PRL 230	Remediate	28	
228	4318	N007	570133C	2,500	unleaded	OU10	PRL 230	Remediate	28	
229	4333*	N050	570190C	1,000	heating oil	OU10	PRL 246	Closed	28	
230	4353*	N054	570164C	13,000	AVGAS	OU10	PRL 250	Closed	28	
231	4354*	N055	570178C	5,000	MOGAS	OU10	PRL 249	Closed	28	
232	4389	N021	570203C	10,000	JP-4	OU10	PRL 234	Closed	54	
233	4390*	N003	570142C	1,000	fuel oil	OU10	PRL 254	Closed	28	
234	4391*	N004	570141C	1,000	fuel oil	OU10	PRL 254	Closed	27	
235	4401	N008	570063C	3,500	diesel	OU10	Site 236	Remediate	28	TEXT SA.
236	4401	N009	570063C	500	diesel	OU10	PRL 235	Rec Closure	28	/ REMEDIAT
237	4402	N010	570064C	4,000	diesel	OU10	Site 238	Remediate /66	28	
238	4403*	N056	570063C	650	heating oil	OU10	PRL 403	Rec Closure	28	
239	4403*	N091	570063C	1,200	heating oil	OU10	PRL 403	Rec Closure	28	
240	4406*	N064	570181C	1000	heating oil	OU10	PRL 253	Closed 115	28	

TABLE 2-1. Complete List of Edwards AFB USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet
241	4419*	N057	570218C	300	heating oil	OU10	PRL 253	Rec Closure	28
242	4420*	N062	570219C	1,500	heating oil	OU10	PRL 251	Rec Closure	28
243	4422*	N024	570219C	900	fuel oil	OU10	PRL 251	Characterize	28
244	4422*	N025	570219C	1,500	fuel oil	OU10	PRL 251	Clean	28
245	4422*	N074	570219C	1,500	fuel oil	OU10	PRL 251	Rec Closure	28
246	4430*	N059	570179C	300	heating oil	OU10	PRL 252	Closed	28
247	4432*	N060	570180C	300	heating oil	OU10	PRL 252	Closed	28
248	4453*	N075	570230C	500	heating oil	OU10		Closed	28
249	4505	N001	570062C	5,000	diesel	OU10	PRL 241	Remediate	28
250	4505	N002	570062C	3,000	heating oil	OU10	PRL 241	Remediate	28
251	4505	N012	570062C	6,000	diesel	OU10	PRL 241	Rec Closure	28
252	4505	N061	570062C	1,400	diesel	OU10	PRL 370	Rec Closure	28
253	4511	N013	570008C	4,000	waste JP-8/water	OU10	PRL 243	Closed	28
254	4511	N090	570008C	500	JP-5/water	OU05	Site 243	Active	
255	4515	N022	570008C	300	waste solvents	OU10	PRL 244	Closed	28
256	4790	M031	570152C	700	diesel	OU07	PRL 368	Closed	52
257	4800	M032	570128C	12,000	fuel oil	OU06	PRL 351	Closed	108
258	4845	M118	570223C	1,000	waste water	OU06	PRL 213	Closed	81
259	4886	M033	570013C	1,000	JP-4	OU06	Site 207	Characterize	108
260	4886	M034	570013C	5,000	leaded	OU06	Site 207	Characterize	108
261	4886	M035	570013C	12000	diesel	OU06	Site 207	Characterize	108
262	4886	M117	570013C	6,000	unleaded	OU06	Site 207	Characterize	108
263	4910	M036	570067C	450	fuel oil	OU08	PRL 352	Closed	107
264	4918	M116	570126C	6,000	fuel oil	OU06	PRL 363	Closed	80
265	4919B	M125	570153C	1,100	diesel	OU08	PRL 303	Closed	107
266	4924	M128		600	waste fuel	OU08	PRL 31	Remediate	107
267	4928	M127	570007C	4,000	JP-4/water	OU08	PRL 31	Closed	107
268	4928	M144	570007C	500	JP-8/water	OU08	Site 31	Active	
269	4929	M108		500	waste fuel	OU08	PRL 31	Remediate	107
270	4932	M129	570193C	2,000	waste JP-7/water	OU08	PRL 31	Remediate	107
271	4932	M145	570193C	500	JP-7/water	OU08	Site 31	Active	
272	4939	M130	570194C	2,000	waste JP-7/water	OU08	PRL 31	Remediate	107
273	4959	M124	570195C	15,000	analine/TCE	OU08	PRL 25	Closed	80
274	4972	M103	570098C	500	diesel	OU08	PRL 306	Closed	107
275	4982	M115	570127C	1,500	diesel	OU06	PRL 363	Closed	80
276	5500	M077	570104C	6,200	diesel/fuel oil	OU07	PRL 258	Closed	159
277	5500	M078	570104C	280	gasoline	OU07	PRL 258	Closed	159
278	5506	M037	570103C	3,000	diesel	OU07	PRL 258	Closed	159
279	5779	M053	570102C	500	fuel oil	OU07	PRL 353	Closed	238
280	5780	M039	570071C	550	diesel	OU07	Site 260	Closed	238
281	7990	M140	570204C	400	washwater	OU07	PRL 261	Closed	105
282	7992	M138	570204C	250	gasoline	OU07	PRL 398	Closed	105
283	7992	M141	570204C	250	diesel	OU07	PRL 398	Closed	105
284	8020	P066	570143C	280	diesel	OU07	PRL 262	Closed	140
285	8025	P067	570144C	280	diesel	OU07	PRL 263	Closed	140
286	8030	P072	570149C	320	gasoline	OU07	PRL 264	Closed	60
287	8035	P071	570145C	265	AVGAS	OU07	PRL 265	Closed	60
288	8040*	P045	570078C	300	fuel oil 1	OU07	PRL 371	Closed	33

TABLE 2-1. Complete List of Edwards AFB USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet	
289	8240*	P026	570140C	10,000	gasoline	OU04	PRL 184	Closed	143	
290	8240*	P027	570140C	10,000	gasoline	OU04	PRL 184	Closed	143	
291	8240*	P070	570140C	300	waste oil	OU04	Site 166	Rec Closure	143	
292	8255	P001	570035C	1,400	heating oil	OU04	Site 145	Remediate	143	
293	8255	P002	570035C	275	heating oil	OU04	Site 145	Closed	143	
294	8350	P003	570034C	2,500	heating oil	OU04	Site 37	Closed	143	
295	8351	P004	570037C	2,500	heating oil	OU04	Site 37	Remediate	143	
296	8352	P005	570026C	2,500	heating oil	OU04	Site 37	Remediate	143	
297	8353	P006	570036C	2,500	heating oil	OU04	Site 37	Closed	143	
298	8354	P050	570032C	15,000	fuel oil	OU04	PRL 354	Closed	143	
299	8356	P007	570033C	15,000	heating oil	OU04	Site 37	Closed	143	
300	8359	P030	570125C	250	fuel oil	OU04	Site 145	Remediate	143	
301	8359	P053	570125C	500	fuel oil	OU04	Site 145	Rec Closure	143	
302	8359	P076	570125C	575	diesel	OU04	Site 145	Remediate	143	
303	8374	P055	570146C	1,000	diesel	OU04	PRL 355	Closed	143	
304	8377	P056	570150C	550	diesel	OU04	PRL 404	Closed	143	
305	8406	P059	570052C	500	fuel oil	OU04	Site 146	Remediate	143	
306	8407	P060	570053C	800	fuel oil	OU04	PRL 356	Closed	143	
307	8409	P008	570155C	10,000	unleaded	OU04	PRL 186	Characterize	143	
308	8409	P009	570155C	10,000	unleaded	OU04	PRL 186	Characterize	143	
309	8409	P010	570155C	10,000	diesel	OU04	PRL 186	Characterize	143	
310	8410	P031	570139C	60	battery acid	OU04	PRL 356	Closed	143	
311	8411	P065	570051C	300	diesel	OU04	PRL 356	Closed	143	
312	8414	P011	570054C	2,500	heating oil	OU04	PRL 372	Closed	144	
313	8419	P012	570075C	5,000	heating oil	OU04	PRL 373	Closed	144	
314	8421	P013	570057C	5,000	heating oil	OU04	Site 137	Characterize	143	
315	8421	P014	570057C	5,000	heating oil	OU04	Site 137	Characterize	143	
316	8423	P015	570055C	5,000	heating oil	OU04	PRL 357	Closed	143	
317	8423	P037	570055C	500	MOGAS	OU04	PRL 405	Closed	143	
318	8424	P016	570056C	8,000	heating oil	OU04	PRL 405	Closed	143	
319	8424	P062	570056C	2,000	leaded	OU04	PRL 358	Closed	143	
320	8424	P077	570056C	1,800	oil/water	OU04	PRL 358	Closed	143	
321	8431	P017	570017C	5,000	heating oil	OU04	Site 151	Closed	144	
322	8431	P069	570017C	850	leaded	OU04	Site 151	Closed	144	
323	8451	P018	570074C	4,000	heating oil	OU04	Site 185	Remediate	143	
324	8451	P019	570074C	7,000	heating oil	OU04	Site 185	~~Rec Closure~~	143	REMEDIATE
325	8451	P020	570074C	2,000	heating oil	OU04	Site 185	~~Remediate~~	143	REC CLOSL
326	8451	P064	570079C	1,000	diesel	OU04	Site 185	Rec Closure	143	
327	8460	P021	570029C	5,000	heating oil	OU04	PRL 374	Closed	143	
328	8475	P054	570031C	800	fuel oil	OU04	Site 144	Closed	144	
329	8475	P057	570031C	125	fuel oil	OU04	Site 144	Closed	144	
330	8525	P058	570147C	3,000	diesel	OU04	PRL 359	Closed	143	
331	8525	P061	570147C	3,000	diesel	OU04	PRL 359	Closed	143	
332	8581	P051	570138C	500	fuel oil	OU04	PRL 139	Closed /70	143	
333	8595	P022	570050C	4,000	heating oil	OU04	PRL 406	Closed	143	
334	8620	P023	570018C	6,500	heating oil	OU04	Site 143	Remediate	143	
335	8635	P040	570019C	1,100	heating oil	OU04	Site 143	Characterize	143	
336	8650	P073	570137C	550	diesel	OU04	PRL 336	Closed	116	

TABLE 2-1. Complete List of Edwards AFB USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet
337	8657	P074	570151C	1,000	diesel	OU04	PRL 407	Closed	143
338	8680	P028	570148C	500	diesel	OU04	PRL 361	Closed	116
339	8702	P029	570094C	550	diesel	OU04	PRL 147	Closed	143
340	8702	P075	570094C	300	diesel	OU04	PRL 147	Closed	143
341	8901	P025	570028C	25,000	heating oil	OU09	PRL 183	Closed	117
342	8902	P039	570024C	1,000	diesel	OU09	PRL 183	Closed	117
343	8911	P024	570040C	5,000	heating oil	OU09	PRL 375	Closed	118
344	8950	P034	570027C	5,000	fuel oil	OU09	PRL 362	Closed	91
345	8953	P035	570039C	1,500	fuel oil	OU09	PRL 376	Closed	91
346	8955	P036	570025C	750	fuel oil	OU09	PRL 305	Rec Closure	91
347	9423	P041	570079C	18,600	nitrogen	OU09	PRL 321	Closed	198
348	9424	P042	570079C	10,000	chemical wash	OU09	PRL 322	Closed	199
349	9425	P043	570079C	8,000	chemical wash	OU09	PRL 323	Closed	199
350	9428	P038	570020C	1,050	heating oil	OU09	PRL 360	Closed	198
351	9505	P032	570014C	500	diesel	OU07	PRL 266	Closed	197
352	9505	P044	570014C	1,000	unleaded	OU07	PRL 266	Closed	197
353	ARCS	P081	570229C	55	diesel?	OU07		Remediate	246
354	EAST	P047	570227C	500	fuel	OU07	PRL 268	Closed	167
355	PIRA	P049	570226C	10,000	diesel/mogas	OU07	PRL 271	Closed	196
356	SCHL	M135	570010C	6,000	unleaded	OU07	PRL 400	don't know	133
357	SCHL	M136	570010C	6,000	unleaded	OU07	PRL 400	don't know	133
358	SCHL	M137	570010C	10,000	diesel	OU07	PRL 400	don't know	133

Active	=	UST is still in use.
Characterize	=	Recommend characterization of contamination.
Closed	=	Closed by the Kern County Environmental Health Services Department (KCEHSD).
Clean	=	Site not significantly contaminated, status under review by KCEHSD.
Inactive	=	UST not in use.
Rec Closure	=	Recommend closure of site.
Remediate	=	Remediation recommended.

TABLE 2-2. Phase II USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet
1	0112*	S196	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
2	0112*	S197	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
3	0112*	S198	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
4	0112*	S199	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
5	0112*	S200	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
6	0112*	S201	570157C	25,000	AVGAS	OU02	Site 5	Remediate	189
7	0148*	S202	570159C	25,000	AVGAS	OU02	Site 5	Remediate	189
8	0148*	S203	570159C	25,000	AVGAS	OU02	Site 5	Remediate	189
9	0148*	S204	570159C	25,000	AVGAS	OU02	Site 5	Remediate	189
10	0148*	S205	570159C	25,000	AVGAS	OU02	Site 5	Remediate	189
11	0148*	S228	570159C	10,000	water control	OU02	Site 5	Clean	189
12	0148*	S229	570159C	750	fuel/water	OU02	Site 5	Clean	189
13	0148*	S238	570159C	750	fuel/water	OU02	Site 5	Clean	189
14	0149*	S206	570158C	25,000	AVGAS	OU02	Site 5	Closed	189
15	0149*	S207	570158C	10,000	AVGAS	OU02	Site 5	Closed	189
16	0173*	S191	570160C	50,000	AVGAS/POL	OU02	Site 5	Remediate	189
17	0173*	S192	570160C	50,000	AVGAS/POL	OU02	Site 5	Remediate	189
18	0173*	S193	570160C	50,000	AVGAS/POL	OU02	Site 5	Remediate	189
19	0173*	S194	570160C	50,000	AVGAS/POL	OU02	Site 5	Remediate	189
20	0173*	S195	570160C	50,000	AVGAS/POL	OU02	Site 5	Remediate	189
21	0181	S001	570065C	15,000	diesel	OU02	PRL 94	Remediate	190
22	0181	S019	570065C	750	diesel	OU02	PRL 94	Remediate	190
23	0181	S039	570065C	650	diesel	OU02	PRL 94	Remediate	190
24	0182	S002	570066C	5,000	diesel	OU02	PRL 94	Remediate	190
25	0204	S003	570070C	2,000	diesel	OU02	PRL 94	Closed	190
26	0300	S004	570135C	500	diesel	OU02	PRL 82	Closed	190
27	0301*	S122	570170C	12,000	gasoline	OU02	PRL 71	Closed	189
28	0310	S007	570135C	15,000	jet fuel	OU02	PRL 82	Closed	190
29	0310	S008	570135C	15,000	jet fuel	OU02	PRL 82	Closed	190
30	0324*	S134	570167C	2,200	fuel oil	OU02	PRL 88	Closed	189
31	0325*	S135	570167C	1,000	fuel oil	OU02	PRL 88	Closed	189
32	0329*	S136	570168C	500	fuel oil	OU02	PRL 88	Closed	189
33	0369	S012	570068C	7645	diesel	OU02	PRL 80	Closed	190
34	0402*	S141	570161C	500	fuel oil	OU02	PRL 92	Closed	190
35	0402*	S142	570161C	500	fuel oil	OU02	PRL 92	Closed	190
36	0407*	S143	570162C	500	fuel oil	OU02	PRL 92	Closed	190
37	0407*	S144	570162C	500	fuel oil	OU02	PRL 92	Closed	190
38	0408*	S145	570162C	500	fuel oil	OU02	PRL 92	Closed	190
39	0408*	S146	570162C	500	fuel oil	OU02	PRL 92	Closed	190
40	0512	S013	570132C	284	diesel	OU02	PRL 408	Closed	351
41	0668	S014	570086C	330	diesel	OU02	PRL 221	Remediate	216
42	0791	S015	570084C	500	diesel/MOGAS	OU02	PRL 108	Closed	242
43	0816*	S233	570188C	1,000	heating oil	OU02	PRL 95	Characterize	216
44	0940*	S165	570156C	3,000	fuel oil	OU02	Site 5	Remediate	189
45	0940*	S166	570156C	12,000	waste fuel oil	OU02	Site 5	Remediate	189
46	0940*	S167	570156C	12,000	diesel	OU02	Site 5	Clean	189
47	0940*	S168	570156C	12,000	lube oil	OU02	Site 5	Clean	189
48	0940*	S169	570156C	12,000	fuel oil	OU02	Site 5	Clean	189

TABLE 2-2. Phase II USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet
49	0948*	S170	570169C	5,000	fuel oil	OU02	PRL 70	Closed	189
50	1020	M001	570045C	4,000	diesel	OU01	PRL 377	Closed	188
51	1209	M002	570131C	9,000	diesel	OU01	PRL 343	Closed	161
52	1209	M003	570131C	9,000	diesel	OU01	PRL 343	Closed	161
53	1401	M119	570041C	550	stoddard solvent	OU01	Site 17	Closed	162
54	1401	M120	570041C	550	stoddard solvent	OU01	Site 17	Closed	162
55	1430	M114	570060C	5000	OWS	OU01	Site 45	Closed	161
56	1601*	S230	570165C	500	fuel oil	OU02	PRL 89	Closed	189
57	1604	M007	570134C	1,100	diesel	OU01	Site 17	Closed	162
58	1608	M008	570130C	2,000	diesel	OU01		Rec Closure	162
59	1616	M009	570082C	1,200	diesel	OU01	PRL 49	Remediate	162
60	1618	M062	570082C	100	diesel	OU01	PRL 49	Rec Closure	162
61	1668*	S173	570171C	1,700	No. 3 light oil	OU02	PRL 90	Closed	190
62	1700*	S231	570165C	500	fuel oil	OU02	PRL 89	Closed	189
63	1768*	S174	570171C	1,700	No. 3 light oil	OU02	PRL 90	Closed	190
64	1839*	S237	570166C	500	heating oil	OU02	PRL 92	Closed	190
65	1868*	S175	570172C	1,700	No. 3 light oil	OU02	PRL 90	Closed	190
66	1899	M064	570044C	20,000	JP-4	OU01	Site 66	Remediate	135
67	1899	M065	570044C	20,000	JP-4	OU01	Site 66	Remediate	135
68	1939*	S236	570166C	500	heating oil	OU02	PRL 92	Closed	190
69	1968*	S176	570172C	1,700	No. 3 light oil	OU02	PRL 90	Closed	190
70	2005*	S178	570173C	750	No. 3 light oil	OU02	PRL 91	Closed	190
71	2009*	S179	570173C	1,000	fuel oil	OU02	PRL 91	Closed	190
72	2013*	S180	570173C	750	fuel oil	OU02	PRL 91	Closed	190
73	2340	M021	570069C	12,000	diesel	OU08	Site 298	Remediate	134
74	2450	M022	570077C	2,000	waste oil	OU08	Site 299	Remediate	134
75	2803*	S224	570174C	1,500	fuel oil	OU02	PRL 89	Rec Closure	189
76	2902*	S185	570174C	400	fuel oil	OU02	PRL 89	Remediate	189
77	2903*	S223	570165C	1000	fuel oil	OU02	PRL 89	Closed	189
78	3103*	S220	570175C	1,700	fuel oil	OU02	PRL 88	Remediate	189
79	3203*	S218	570175C	375	fuel oil	OU02	PRL 88	Rec Closure	189
80	3203*	S219	570175C	375	fuel oil	OU02	PRL 88	Remediate	189
81	3510	M024	570087C	1,500	leaded gas	OU8	Site 224	Closed	134
82	3510	M113	570087C	1,500	leaded gas	OU8	Site 224	Closed	134
83	3512	M067	570136C	10,000	MOGAS	OU08	Site 255	Remediate	134
84	3512	M068	570136C	10,000	MOGAS	OU08	Site 225	Remediate	134
85	3800	M026	570021C	3,000	waste lube oil	OU01	Site 23	Remediate	135
86	3800	M069	570021C	3,000	waste lube oil	OU01	Site 23	Remediate	135
87	3800	M070	570021C	300	waste lube oil	OU01	Site 23	Remediate	135
88	3800	M071	570021C	3,000	waste fuel	OU01	Site 23	Remediate	135
89	3800	M072	570021C	1,000	waste JP-4	OU01	Site 23	Remediate	135
90	3800	M073	570021C	3,000	waste lube oil	OU01	Site 23	Remediate	135
91	3800	M074	570021C	10,000	diesel	OU01	Site 23	Remediate	135
92	3800	M075	570021C	8,000	OWS	OU01	Site 23	Remediate	135
93	4305	N005	570072C	3,000	diesel	OU10	Site 229	Remediate	28
94	4353*	N054	570164C	13,000	AVGAS	OU10	PRL 250	Closed	28
95	4401	N008	570063C	3,500	diesel	OU10	Site 236	Remediate	28
96	4401	N009	570063C	500	diesel	OU10	PRL 235	Rec Closure	28

TABLE 2-2. Phase II USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet
97	4402	N010	570064C	4,000	diesel	OU10	Site 238	Remediate	28
98	4505	N001	570062C	5,000	diesel	OU10	PRL 241	Remediate	28
99	4505	N002	570062C	3,000	heating oil	OU10	PRL 241	Remediate	28
100	4505	N012	570062C	6,000	diesel	OU10	PRL 241	Rec Closure	28
101	4505	N061	570062C	1,400	diesel	OU10	PRL 370	Rec Closure	28
102	4515	N022	570008C	300	waste solvents	OU10	PRL 244	Closed	28
103	4790	M031	570152C	700	diesel	OU07	PRL 368	Closed	52
104	4919B	M125	570153C	1,100	diesel	OU08	PRL 303	Closed	107
105	4972	M103	570098C	500	diesel	OU08	PRL 306	Closed	107
106	5500	M077	570104C	6,200	diesel/fuel oil	OU07	PRL 258	Closed	159
107	5506	M037	570103C	3,000	diesel	OU07	PRL 258	Closed	159
108	5779	M053	570102C	500	fuel oil	OU07	PRL 353	Closed	238
109	8020	P066	570143C	280	diesel	OU07	PRL 262	Closed	140
110	8025	P067	570144C	280	diesel	OU07	PRL 263	Closed	140
111	8030	P072	570149C	320	gasoline	OU07	PRL 264	Closed	60
112	8035	P071	570145C	265	AVGAS	OU07	PRL 265	Closed	60
113	8240*	P026	570140C	10,000	gasoline	OU04	PRL 184	Closed	143
114	8240*	P027	570140C	10,000	gasoline	OU04	PRL 184	Closed	143
115	8240*	P070	570140C	300	waste oil	OU04	Site 166	Rec Closure	143
116	8255	P002	570035C	275	heating oil	OU04	Site 145	Closed	143
117	8352	P005	570026C	2,500	heating oil	OU04	Site 37	Remediate	143
118	8354	P050	570032C	15,000	fuel oil	OU04	PRL 354	Closed	143
119	8359	P076	570125C	575	diesel	OU04	Site 145	Remediate	143
120	8374	P055	570146C	1,000	diesel	OU04	PRL 355	Closed	143
121	8377	P056	570150C	550	diesel	OU04	PRL 404	Closed	143
122	8407	P060	570053C	800	fuel oil	OU04	PRL 356	Closed	143
123	8410	P031	570139C	60	battery acid	OU04	PRL 356	Closed	143
124	8411	P065	570051C	300	diesel	OU04	PRL 356	Closed	143
125	8423	P015	570055C	5,000	heating oil	OU04	PRL 357	Closed	143
126	8424	P062	570056C	2,000	leaded	OU04	PRL 358	Closed	143
127	8424	P077	570056C	1,800	oil/water	OU04	PRL 358	Closed	143
128	8431	P017	570017C	5,000	heating oil	OU04	Site 151	Closed	144
129	8431	P069	570017C	850	leaded	OU04	Site 151	Closed	144
130	8451	P019	570074C	7,000	heating oil	OU04	Site 185	Rec Closure	143
131	8451	P064	570079C	1,000	diesel	OU04	Site 185	Rec Closure	143
132	8525	P058	570147C	3,000	diesel	OU04	PRL 359	Closed	143
133	8525	P061	570147C	3,000	diesel	OU04	PRL 359	Closed	143
134	8581	P051	570138C	500	fuel oil	OU04	PRL 139	Closed	143
135	8620	P023	570018C	6,500	heating oil	OU04	Site 143	Remediate	143
136	8650	P073	570137C	550	diesel	OU04	PRL 336	Closed	116
137	8657	P074	570151C	1,000	diesel	OU04	PRL 407	Closed	143
138	8680	P028	570148C	500	diesel	OU04	PRL 361	Closed	116
139	8702	P075	570094C	300	diesel	OU04	PRL 147	Closed	143
140	8901	P025	570028C	25,000	heating oil	OU09	PRL 183	Closed	117
141	8902	P039	570024C	1,000	diesel	OU09	PRL 183	Closed	117
142	8950	P034	570027C	5,000	fuel oil	OU09	PRL 362	Closed	91
143	8953	P035	570039C	1,500	fuel oil	OU09	PRL 376	Closed	91
144	8955	P036	570025C	750	fuel oil	OU09	PRL 305	Rec Closure	91

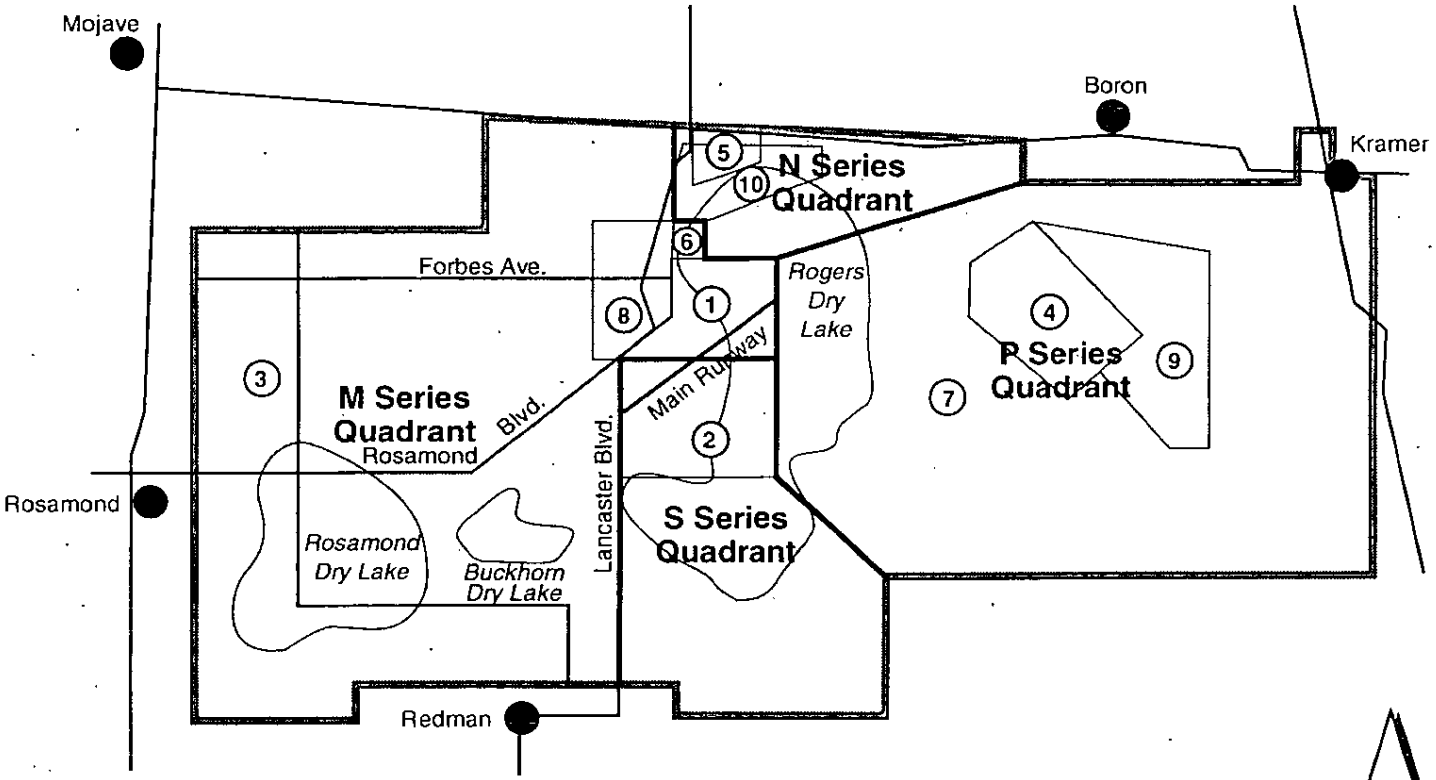
TABLE 2-3. Phase III (Parts 1 and 2) USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet
1	0137*	S031	570196C	500	MOGAS/diesel	OU02	PRL 22	Closed	189
2	0154*	S234	570197C	500	MOGAS	OU02	PRL 220	Closed	243
3	0273	S084	570118C	3,600	waste water/ jet	OU02	Site 14	Remediate	217
4	0300	S006	570135C	6,000	waste oil	OU02	PRL 82	Rec Closure	190
5	0805*	S225	570198C	500	fuel oil	OU02	PRL 97	Closed	216
6	0805*	S226	570198C	500	fuel oil	OU02	PRL 97	Closed	216
7	1502	S232	570199C	275	MOGAS	OU02	PRL 219	Closed	163
8	1724	M015	570059C	2,000	waste oil/ jet fuel	OU01	Site 11	Remediate	135
9	2004*	S239	570201C	55	fuel oil	OU02	PRL 76	Closed	190
10	2506	M139	570220C	5,000	waste POL	OU08	PRL 419	Remediate	161
11	2700*	S182	570202C	300	fuel oil	OU02	PRL 91	Closed	190
12	2802*	S183	570174C	300	fuel oil	OU02	PRL 89	Remediate	189
13	2803*	S184	570174C	300	fuel oil	OU02	PRL 89	Characterize	189
14	3203*	S221	570200C	3000	fuel oil	OU02	PRL 88	Clean	189
15	4214	N018	570012C	10,000	unleaded	OU05	PRL 350	Closed	27
16	4217	N089	570225C	240,000	washwater	OU05	PRL 369	Closed	12
17	4231	N019	570208C	20,000	diesel	OU05	Site 289	Closed	27
18	4232	N078	570207C	800	waste, chem	OU05	PRL 195	Closed	27
19	4233	N048	570205C	800	wastewater	OU05	PRL 196	Closed	12
20	4233	N088	570205C	100	wastewater	OU05	PRL 196	Closed	12
21	4234	N049	570209C	1200	wastewater	OU05	PRL 197	Closed	12
22	4234	N083	570209C	800	wastewater	OU05	PRL 197	Closed	12
23	4234	N084	570209C	600	wastewater	OU05	PRL 197	Closed	12
24	4235	N023	570206C	800	wastewater	OU05	Site 284	Closed	12
25	4236	N079	570205C	600	waste, chem	OU05	PRL 198	Closed	12
26	4237	N080	570206C	800	waste, chem	OU05	PRL 199	Closed	12
27	4241	N069	570212C	800	wastewater	OU05	Site 285	Closed	12
28	4243	N070	570212C	800	wastewater	OU05	PRL 200	Closed	12
29	4245	N085	570214C	800	wastewater	OU05		Closed	12
30	4260	N086	570215C	600	wastewater	OU05		Closed	12
31	4267	N087	570216C	300	wastewater	OU05		Closed	12
32	4275*	N026	570209C	550	diesel	OU05	PRL 201	Closed	12
33	4282	N082	570210C	400	wastewater	OU05	PRL 283	Closed	27
34	4283	N028	570211C	500	wastewater	OU05	PRL 286	Closed	12
35	4284	N071	570211C	400	wastewater	OU05	PRL 202	Closed	12
36	4286	N073	570213C	400	wastewater	OU05	PRL 203	Closed	12
37	4317	N053	570217C	500	MOGAS	OU10	PRL 255	Closed	28
38	4354*	N055	570178C	5,000	MOGAS	OU10	PRL 249	Closed	28
39	4389	N021	570203C	10,000	JP-4	OU10	PRL 234	Closed	54
40	4403*	N056	570063C	650	heating oil	OU10	PRL 403	Rec Closure	28
41	4419*	N057	570218C	300	heating oil	OU10	PRL 253	Rec Closure	28
42	4420*	N062	570219C	1,500	heating oil	OU10	PRL 251	Rec Closure	28
43	4422*	N024	570219C	900	fuel oil	OU10	PRL 251	Characterize	28
44	4422*	N025	570219C	1,500	fuel oil	OU10	PRL 251	Clean	28
45	4422*	N074	570219C	1,500	fuel oil	OU10	PRL 251	Rec Closure	28
46	4453*	N075	570230C	500	heating oil	OU10		Closed	28
47	7990	M140	570204C	400	washwater	OU07	PRL 261	Closed	105
48	7992	M138	570204C	250	gasoline	OU07	PRL 398	Closed	105

TABLE 2-3. Phase III (Parts 1 and 2) USTs

	Facility Number	UST No.	Operating Permit No.	Capacity	Contents	Operable Unit	Site/PRL No.	UST Status2	Map Sheet
49	7992	M141	570204C	250	diesel	OU07	PRL 398	Closed	105
50	8423	P037	570055C	500	MOGAS	OU04	PRL 405	Closed	143
51	ARCS	P081	570229C	55	diesel?	OU07		Remediate	246
52	EAST	P047	570227C	500	fuel	OU07	PRL 268	Closed	167
53	PIRA	P049	570226C	10,000	diesel/mogas	OU07	PRL 271	Closed	196

Active	=	UST is still in use.
Characterize	=	Recommend characterization of contamination.
Closed	=	Closed by the Kern County Environmental Health Services Department (KCEHSD).
Clean	=	Site not significantly contaminated, status under review by KCEHSD.
Inactive	=	UST not in use.
Rec Closure	=	Recommend closure of site.
Remediate	=	Remediation recommended.



Operable Unit Identification

1. Main Base Flight Line
2. South Base
3. Base Wide Water Wells
4. Phillips Laboratory-West
5. JPL
6. NASA
7. Base-Wide Miscellaneous
8. Northwest Main Base
9. Phillips Laboratory-East
10. North Base

USTI Report

Tank Series Quadrants

Date 2-97	Edwards AFB	Figure 2-1
Project No. 11226		

11226.0808

4256 92

The first character in this number is always a letter, which designates the quadrant where the UST is located. Thus, USTs whose identification numbers start with an "M" are located in the Main Base quadrant, "N" in the North Base quadrant, "S" in the South Base quadrant, and "P" in the Phillips Laboratory quadrant.

A total of 131 USTs were removed (three USTs were abandoned-in-place) during Phase II (Table 2-2 includes these 131 USTs and 13 previously investigated UST sites). Forty-six USTs were removed during Phase III (Table 2-3 includes these 46 USTs and six previously investigated UST sites). As shown in Table 2-4, the majority of the Phase II USTs (53) were located in South Base, and the majority of the Phase III USTs (30) were located in North Base. For Phase II, approximately equal numbers of tanks were removed from Main Base and Phillips Laboratory (32 and 36 USTs, respectively) with only 10 USTs removed from North Base. During Phase III, four USTs were removed from Main Base, one UST was abandoned-in-place at Main Base, nine USTs were removed from South Base, and three USTs were removed from Phillips Laboratory. The 13 USTs investigated during Phase II that had been previously removed but not sampled during removal were located in South Base; for Phase III, three USTs were in South Base, two were in North Base and one in Phillips Laboratory.

As shown in Table 2-5, out of the 197 USTs, three USTs have been recommended for site characterization. Twenty-four USTs were recommended for no further investigation (closure). Fifty-three tanks were evaluated as needing remediation, and 117 USTs were closed to further investigation by the Kern County Environmental Health Services Department (KCEHSD). Sixteen of the 19 USTs that had been previously removed but not sampled were closed by the KCEHSD, based on the soil sample analysis results. Three of the remaining USTs were recommended for further investigation (remediation) due to their elevated soil sample analysis results.

TABLE 2-4. EDWARDS AFB UST SUMMARY

UST STATUS	NUMBER OF USTs: Main Base	North Base	South Base	Phillips Lab	TOTALS
REMOVED/ABANDONED	**105**	**53**	**88**	**72**	**318**
Phase I	30	0	0	7	37
Phase II (Part 1)	31	9	12	36	88
Phase II (Part 2)	1	0	22	0	23
Phase II (Part 3)	0	1	6	0	7
Phase II (Part 4)	0	0	13	0	13
Phase II (Part 5)	0	0	0	0	0
Subtotal for Phase II	32	10	53	36	131
Phase III (Part 1)	4	27	7	0	38
Phase III (Part 2)	1	3	2	3	8
Subtotal for Phase III	5	30	9	3	46
Other	39	16	28	29	112
TOTALS:	106	56	90	75	326

DO NOT COUNT

TABLE 2-5. REMOVED UST SUMMARY

	NUMBER OF USTS				
UST STATUS	Main Base	North Base	South Base	Phillips Lab	TOTALS
USTs REMOVED BY EARTH TECH - Phase II					
Closed	15	2	32	29	78
Recommend Closure	2	3	8	4	17
Characterization Needed	0	0	1	0	1
Remediation Needed	15	5	25	3	48
USTs REMOVED BY EARTH TECH - PHASE III (Part 1)					
Closed	3	23	7	1	34
Recommend Closure	0	5	1	0	6
Characterization Needed	0	1	1	0	2
Remediation Needed	1	0	1	0	2
USTs REMOVED BY EARTH TECH - PHASE III (Part 2)					
Closed	0	3	0	2	5
Recommend Closure	0	0	1	0	1
Characterization Needed	0	0	0	0	0
Remediation Needed	1	0	1	1	3
Total	37	42	78	40	197

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ADMINISTRATIVE RECORD

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Appendix I-2
Phase II Environmental Site Assessment

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Phase II Environmental Site Assessment – Aratina Solar Farm

Boron, California

July 20, 2020
Revised September 1, 2020
Revised December 8, 2020

Prepared for:

64NB 8me, LLC
5455 Wilshire Boulevard, Suite 2010
Los Angeles, California 90036

Prepared by:

Stantec Consulting Services Inc.
735 East Carnegie Drive, Suite 280
San Bernardino, California 92408

Project No.: 185804366

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Prepared by 
(signature)

Joshua Sargent, MS, PG

Geologist

Reviewed by 
(signature)

Dion Monge

Senior Scientist

Approved by 
(signature)

Kyle Emerson, CEG

Managing Principal Geologist

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Executive Summary

The Property consists of a corridor of land parcels located north and south of Twenty Mule Team Road near the communities of Boron and Desert Lake, Kern County, California (Figure 1). These twenty-seven (27) parcels total an approximate area of 2,667 acres of undeveloped land. These parcels are largely contiguous and are only separated by Twenty Mule Team Road and Highway 58. Due to the size of the Property, the Property has separated into five (5) Site Areas. Surrounding properties are a mix of commercial and residential properties, with the Edwards Air Force Base located along the southern boundary of the Property. A Property location map is illustrated on Figure 1.

Stantec performed a Phase I ESA on the property in 2019 and updated in early 2020. That ESA identified the following recognized environmental conditions (RECs) in connection with the Property:

Site Area 1

Adjacent Boron Landfill. The Boron Municipal Landfill, operated by Kern County, is located in the south eastern portion of the Property, near Site Area 1. Although the landfill is not a part of the Property, the Property boundaries nearly fully enclose the landfill facility. A historical release of VOCs occurred from the landfill operations during the1990's which contaminated groundwater beneath the Property. Groundwater monitoring has been performed since the discovery of the VOCs in groundwater. According to a 2018 groundwater sampling report for the landfill, the VOC compounds in shallow groundwater near the landfill have natural attenuated to concentrations below the California Maximum Contaminant Levels (MCLs) (Kern County Public Works Departments, 2019).

According to documents reviewed on the California State Water Resources Control online database base Geotracker, no landfill gas collection system currently operates at this facility. However, landfill gas monitoring is performed at vapor well locations surrounding the facility. According to the most-recent monitoring report, no landfill gas (*i.e.* methane) was detected above action levels.

The presence of the landfill facility adjacent to the Property is considered a REC to the Property. Although no landfill gas collection systems are currently operating at the Property, and recent landfill gas monitoring has shown that landfill gases are not leaving the Property at levels of concerns, Stantec recommended collecting soil vapor data within the Property boundaries to confirm no soil vapor impacts are present from this facility.

Shooting Range. Stantec identified a shooting range in the southeastern portion of the Property, within Site Area 1. The shooting range is approximately ¼-mile in length and contains multiple targets for small munitions (handgun and rifle).

The accumulation of heavy metals from small munitions within shallow soils of the shooting range area are considered likely. Therefore, the shooting range is considered a REC to the Property. Stantec recommended performing a shallow soil assessment in the areas of targets within the shooting range to characterize possible metals impacts to shallow soils in these areas.

Site Area 2

Historical Target Site PB-9. A historical target identified as "PB-9" was used by Edwards Air Force Base and was located along the southern Property boundary. The User provided additional documentation for the PB-9 munitions response site (MRS) prepared by BayWest, TechLaw, and TetraTech. In the BayWest and TechLaw reports, "identification and removal of munitions debris and non-munition related debris" was performed in portions of the Property in 2012. In total, 5,332 pound of munitions debris (MD) and 7,627 pounds of non-related munitions debris (NRMD) were removed from Site Area 2. While MD was found and removed, no munitions or explosives of concern (MEC) or materials potentially presenting and explosion hazard (MPPEH) have been found in Site Area 2 to date. In addition, environmental sampling performed within the vicinity of PB-9 reported no detectable levels of munitions constituents (MC) of concern above human health screening levels according to the Bay West report. A recommendation for no further action (NFA) was made to the state and Edwards Air Force Base in the *Remedial Investigation/Feasibility Study* report prepared for PB-9 munitions response site (MRS) in February of 2018. A response on the NFA had not been received at the time of BayWest's letter report dated January 28, 2019.

The historical PB-9 target is considered a HREC to the Property. Although no MEC or MPPEH has been found in Site Area 2, the BayWest summary report recommends that at a minimum the following be performed:

1. *All site workers are given unexploded ordnance ("UXO") Awareness training by a DDESB Technical Paper 18 qualified UXO technician as part of the safety program. This training would focus on the munitions items that have previously been identified and associated with the site, including the condition they are likely to be found in.*
2. *In the event a munitions item is recovered follow notification procedures identified in the UXO Awareness training. Recognize, Retreat and Report the munitions item, initial report will be to California Highway Patrol ("CHP") office in Bakersfield, CA office, phone number (661) 396-6600. CHP will make notification to Edwards AFB Base Explosive Ordnance Disposal ("EOD") unit.*
3. *Any ground disturbance activities occurring within 1,000 feet of the historical PB-9 target should include construction support by a minimum of two DDESB Technical Paper 18 qualified UXO technicians. This would allow the opportunity for real-time surveillance of ground disturbing activities and an assessment of anomalous debris to be conducted immediately.*

In accordance with the above recommendations, TetraTech was contracted to prepare an Unexploded Ordnance (UXO) Construction Support Plan (CSP) dated May 2020 that was used during prior ground disturbance work related to geotechnical drilling at the Property. The CSP includes the above three recommendations from BayWest in addition to other guidance for construction support. Stantec recommends that the CSP be modified, as needed, to address future ground disturbance activities anticipated to occur during development. In addition, Stantec recommends that the minimum procedures recommended by BayWest be implemented at the Property during future construction work and that a new inquiry be made into the status of NFA

recommended in the RI/FS report. If available, BayWest should review the RI/FS report for completeness regarding investigative work done at AL505-2 that lead to the NFA recommendation.

Phase II Investigation

On May 22 and 25, 2020, Stantec personnel oversaw the advancement of eight (8) shallow soil borings (B1 through B8) (Figure 3A), and two (2) soil vapor borings (SV-1 and SV-2) (Figure 3B) at the Property. No Phase 2 ESA investigations were recommended for Site Areas 3 through 5. Additional documentation reviewed for Site Area 2, regarding potential UXO, was discussed previously in this Executive Summary.

The intent of borings performed within Site Area 1 were to evaluate potential residual metals contaminants from the shooting range and methane migration from the offsite adjacent landfill. Soils encountered during the investigation consisted largely of well- to poorly-graded sands with varying degrees of fines. Groundwater was not encountered during this investigation. Minor solvent odors were observed at location B6, and appeared to not extend beyond approximately one foot in depth.

Laboratory test results from this assessment are presented on the laboratory data sheets attached as Appendix A. A summary of the analytical data from this assessment is provided in Table 1. The laboratory test results from this investigation are discussed below and were compared to the more conservative value between the DTSC Human and Ecologic Risk Office (HERO) Note 3 screening levels for commercial sites (DTSC, 2019), and the USEPA regional screening levels (RSLs) for commercial/industrial sites (USEPA, 2019).

Low detections of the metals copper, lead, and nickel and present in shallow soils within the small-arms shooting range located in Site Area 1, located in the southeastern portion of the Property. However, all detected concentrations of these metals are within typical California regional background ranges, and below commercial-use screening criteria. Therefore, Stantec recommends no additional investigation regarding the accumulation of metals in shallow soils in this area.

Methane was detected at 0.0 % vol. in the two temporary soil vapor probes installed on the Property, in close proximity to the Boron landfill. Due to the lack of methane detected in the soil vapor screening points, it appears that no methane has encroaching from the Boron Landfill onto the Property. Therefore, Stantec recommends no further investigation regarding vapor encroachment from this facility.

Multiple areas of discarded debris were observed throughout the Property, including debris within the small-arms shooting range. Stantec recommends removing these materials that are within the Property boundaries prior to Property development.

Aside from the recommendations regarding UXO awareness and construction support discussed under Site Area 1, no further assessment is recommended at the Property.

The preceding summary is intended for information purposes only. Reading of the full body of this report is recommended.

1.0 INTRODUCTION

Stantec Consulting Services Inc. (Stantec) has prepared this Phase II environmental site assessment (ESA) report for the property located near the town of Boron, California (the "Property"), on behalf of 64NB 8me, LLC (the "Client"). Site assessment activities presented in this report were completed in accordance with Stantec's *Proposal For Phase I Environmental Site Assessment For Gen-Tie Line Easement and Phase II ESA for Aratina Solar Parcels*, dated May 6, 2020.

1.1 PROPERTY DESCRIPTION AND OPERATION

The Property consists of a corridor of land parcels located north and south of Twenty Mule Team Road near the communities of Boron and Desert Lake, Kern County, California (Figure 1). These twenty-seven (27) parcels total an approximate area of 2,667 acres of undeveloped land. These parcels are largely contiguous and are only separated by Twenty Mule Team Road and Highway 58. Due to the size of the Property, the Property has separated into five (5) Site Areas (Figure 2). These Sites contain the following assessor parcel numbers, or portions thereof:

Site Area 1

APN	Owner	Zoning	Gross Acreage
244-010-04	Cho Family Trust	R-1	72.5
244-010-19	Linda Pietrangelo	A-1	10.2
244-010-20	Linda Pietrangelo	A-1	10.2
244-010-21	Linda Pietrangelo	A-1	10.2
244-010-22	Linda Pietrangelo	A-1	10.2
244-010-36	Genus	A-1	259.3
Total Site Area 1			**372.6**

Site Area 2

APN	Owner	Zoning	Gross Acreage
244-010-01	Su John Rosa Chen	A-1	10.0
244-010-02	Su John Rosa Chen	A-1	10.0
244-010-33	Su John Rosa Chen	A-1, R-1	302.1
244-040-03	GM Gabrych Family	A-1	635.2
Total Site Area 2			**957.3**

Site Area 3

APN	Owner	Zoning	Gross Acreage
232-140-09	Crane	A-1	14.7

232-140-11	Crane	M-1	11.2
244-040-07	Doraland	M-1	155.0
244-040-10	Crane	M-1	20.0
244-040-11	John Finne	M-1	28.5
244-040-12	John Finne	M-1	28.5
244-040-14	Britton Associates LLC	M-1	120.0
244-040-15	Britton Associates LLC	M-1	158.0
244-040-17	Crane	M-1	26.1
244-040-19	John Flinne	M-1	20.0
244-040-20	Crane	M-1	20.0
244-040-21	Tim Cao	M-1	17.0
244-040-22	Desert Lake Community Service District	M-1	1.0
244-040-23	Doraland	M-1	26.2
Total Site Area 3			**646.0**

Site Area 4

APN	Owner	Zoning	Gross Acreage
232-081-10	John Hui	A-1	221.3
232-220-36 (partial)	Illy King	A-1	221.1
Total Site Area 4			**442.4**

Site Area 5

APN	Owner	Zoning	Gross Acreage
232-220-37 (partial)	Illy King	A-1	249.0
Total Site Area 5			**249.0**

According to the Kern County assessors map, the zoning of the Property parcels vary. The zoning classification of the Property parcels include the following:

- Limited agriculture (A-1);
- Light Industrial (M-1); and,
- Low density residential (R-1).

Surrounding properties are a mix of commercial and residential properties, with the Edwards Air Force Base located along the southern boundary of the Property. A Property location map is illustrated on Figure 1.

1.2 PROPERTY GEOLOGY

The Property is located within Antelope Valley, which is located in the western portion of the Mojave Desert, part of the Basin and Range physiographic province. The western Mojave Desert is a wedge-shaped area of high desert bordered by the San Gabriel Mountains to the southwest and the Tehachapi Mountains to the northwest. Its eastern boundary is less prominent, ending in the highlands east of the Mojave River. The Antelope Valley is a closed topographic basin that encompasses a major portion of the western Mojave Desert and is characterized by broad alluvial valleys with surrounding low hills. Seasonal runoff forms ephemeral lakes (playas) at topographic lows, which are present throughout the Property.

The Western Mojave Desert is a great wedge-shaped fault black, commonly referred to as the Mojave Block. The two major shear zones of the San Andres and the Garlock faults bound the block to the southwest and the northwest, respectively. The San Andreas fault is by far the larger, trending to the northwest. The Garlock fault trends to the northeast with left-lateral displacement and can be traced for approximately 150 miles. Many relatively smaller faults occur within the Mojave Block that sub-parallel the major shears of the San Andreas and the Garlock faults. The majority of these smaller faults trend to the northwest. Important trending faults in the vicinity of the Property include the Spring and Leuhman faults, located to the south of the Property.

Generally, basin-fill and alluvial Quaternary-aged unconsolidated sediments overly crystalline basement complex of pre-Tertiary age at the Property. The thickness of these sediments is variable with proximity to the nearby hills of Leuhman Ridge, located approximately 2 miles south of the Property. In the area of the Property, these sediments are understood to be over 2,000-feet thick, generally unconsolidated, and comprised of gravels, sands, silts, and clay lenses. Basement rocks in the area are generally quartz-monazite granitic intrusive units, with local areas of low-grade to high-grade metamorphism, and highly fractured areas in proximity to fault planes (Dibblee, 1967).

1.3 PROPERTY HYDROGEOLOGY

The Property is located within the Antelope Valley groundwater basin (6-044). The basin is bounded on the northwest by the Garlock fault zone at the base of the Tehachapi Mountains and on the southwest by the San Andreas fault zone at the base of the San Gabriel Mountains. The basin is bounded on the east by ridges, buttes, and low hills that form a surface and groundwater drainage divide and on the north by Fremont Valley Groundwater Basin at a groundwater divide approximated by a southeastward-trending line from the mount of Oak Creek through Middle Butte to exposed bedrock near Gem Hill, and by the Rand Mountains farther east (California Department of Water Resources [CDWR], 2018). According to the CDWR online Groundwater Information Center Interactive Map Application (GICIMA), groundwater in the area of the Property is approximately 200 feet below ground surface, or at an elevation of approximately 2,165 feet amsl, and generally flows to the northwest (CDWR, 2019).

2.0 BACKGROUND

Stantec performed a Phase I ESA on the property in 2019 and updated in early 2020. That ESA identified the following recognized environmental conditions (RECs) in connection with the Property:

Site Area 1

Adjacent Boron Landfill. The Boron Municipal Landfill, operated by Kern County, is located in the south eastern portion of the Property, near Site Area 1. Although the landfill is not a part of the Property, the Property boundaries nearly fully enclose the landfill facility. A historical release of VOCs occurred from the landfill operations during the1990's which contaminated groundwater beneath the Property. Groundwater monitoring has been performed since the discovery of the VOCs in groundwater. According to a 2018 groundwater sampling report for the landfill, the VOC compounds in shallow groundwater near the landfill have natural attenuated to concentrations below the California Maximum Contaminant Levels (MCLs) (Kern County Public Works Departments, 2019).

According to documents reviewed on the California State Water Resources Control online database base Geotracker, no landfill gas collection system currently operates at this facility. However, landfill gas monitoring is performed at vapor well locations surrounding the facility. According to the most-recent monitoring report, no landfill gas (*i.e.* methane) was detected above action levels.

The presence of the landfill facility adjacent to the Property is considered a REC to the Property. Although no landfill gas collection systems are currently operating at the Property, and recent landfill gas monitoring has shown that landfill gases are not leaving the Property at levels of concerns, Stantec recommended collecting soil vapor data within the Property boundaries to confirm no soil vapor impacts are present from this facility.

Shooting Range. Stantec identified a shooting range in the southeastern portion of the Property, within Site Area 1. The shooting range is approximately ¼-mile in length and contains multiple targets for small munitions (handgun and rifle).

The accumulation of heavy metals from small munitions within shallow soils of the shooting range area are considered likely. Therefore, the shooting range is considered a REC to the Property. Stantec recommended performing a shallow soil assessment in the areas of targets within the shooting range to characterize possible metals impacts to shallow soils in these areas.

Site Area 2

Historical Target Site PB-9. A historical target identified as "PB-9" was used by Edwards Air Force Base and was located along the southern Property boundary. The User provided a report for this Target prepared by BayWest. In BayWest's report, "identification and removal of munitions debris and non-munition related debris" was performed in portions of the Property in 2012. In total, 5,332 pound of munitions debris (MD) and 7,627 pounds of non-related munitions debris (NRMD) were removed from Site Area 2. While MD was found and removed, no munitions or explosives of concern (MEC) or



materials potentially presenting and explosion hazard (MPPEH) have been found in Site Area 2 to date. In addition, environmental sampling performed within the vicinity of PB-9 reported no detectable levels of munitions constituents (MC) of concern above human health screening levels according to the Bay West report. A recommendation for no further action (NFA) was made to the state and Edwards Air Force Base in the *Remedial Investigation/Feasibility Study* report prepared for PB-9 munitions response site (MRS) in February of 2018.

The historical PB-9 target is considered a HREC to the Property. Although no MEC or MPPEH has been found in Site Area 2, the BayWest summary report recommends that at a minimum the following be performed:

1. *All site workers are given unexploded ordnance ("UXO") Awareness training by a DDESB Technical Paper 18 qualified UXO technician as part of the safety program. This training would focus on the munitions items that have previously been identified and associated with the site, including the condition they are likely to be found in.*
2. *In the event a munitions item is recovered follow notification procedures identified in the UXO Awareness training. Recognize, Retreat and Report the munitions item, initial report will be to California Highway Patrol ("CHP") office in Bakersfield, CA office, phone number (661) 396-6600. CHP will make notification to Edwards AFB Base Explosive Ordnance Disposal ("EOD") unit.*
3. *Any ground disturbance activities occurring within 1,000 feet of the historical PB-9 target should include construction support by a minimum of two DDESB Technical Paper 18 qualified UXO technicians. This would allow the opportunity for real-time surveillance of ground disturbing activities and an assessment of anomalous debris to be conducted immediately.*

TetraTech prepared an Unexploded Ordnance (UXO) Construction Support Plan (CSP) dated May 2020 that was used during prior ground disturbance work related to geotechnical drilling at the Property. Stantec recommends that the CSP be modified, as needed, to address future ground disturbance activities anticipated to occur during development. In addition, Stantec recommends that the minimum procedures recommended by BayWest be implemented at the Property during future construction work and that a new inquiry be made into the status of NFA recommended in the RI/FS report. If available, BayWest should review the RI/FS report for completeness regarding investigative work done at AL505-2 that lead to the NFA recommendation.

No RECs were identified for Site Areas 3 through 5 and no further investigations were recommended in these areas.

The following sections of this report describe the methodology and results evaluating the Boron Landfill and shooting range.

3.0 FIELD INVESTIGATION

Prior to the commencement of fieldwork activities, Stantec made the following preparations:

3.1 PRE-DRILLING ACTIVITIES

- In accordance with federal Occupational Safety and Health Administration (OSHA) regulations (29 CFR, Section 1910.120), Stantec developed a site-specific Health and Safety Plan (HASP) for the Property. All Stantec personnel and subcontractors associated with the project were required to be familiar with and comply with all provisions of the HASP.

3.2 INVESTIGATION

Stantec provided the services of a field geologist on May 22 and 25, 2020 to supervise the advancement of field activities at the Property. All work was conducted under the direct oversight of a State of California professional and included the following:

- Advancement of two (2) soil vapor borings on the Property adjacent to the Boron Landfill; and,
- Advancement of eight (8) shallow soil borings within the shooting range area.

All boring locations advanced during this investigation are depicted on Figure 3A and 3B.

3.2.1 Soil Boring and Sampling Procedures

A hand auger was used to collect shallow soil samples in areas of apparent small-arms target practice. Shallow soil samples were collected at the 1-foot depth interval. Upon extraction of the auger bucket at the prescribed sampling depth, the soils contained therein were discharged directly into pre-cleaned laboratory-provided 8-ounce glass jars and sealed with Teflon®-lined lids, labeled with the appropriate identification information (boring number, sample depth, sample collected date, and sample collection time). The samples were logged on a chain-of-custody form and placed in an ice-filled cooler for transport to the analytical laboratory.

3.2.2 Soil Vapor Probe Installation

Two (2) soil vapor points were installed at the 5-foot depth interval within Property Site Area 1 to investigate the potential for methane encroachment from the nearby Boron Landfill facility. Subsurface soil vapor conditions were installed in accordance with the July 2015 Department of Toxic Substances (DTSC) “Advisory – Active Soil Gas Investigation” (DTSC Advisory) guidelines. The soil vapor points were allowed to equilibrate a minimum of two hours prior to screening for the presence of methane, in general accordance with the January 2014 Los Angeles Department of Building and Safety (LADBS) “Site Testing Standards For Methane”.

Each sample probe was constructed with a 1-inch-long Airstone sampling screen set at the prescribed sampling intervals. Each of the sampling screens was constructed with a permeable Airstone vapor tip connected to ¼-inch outer diameter Nylaflow tubing that was lowered to the bottom of the borehole and backfilled with filter sand, until approximately 12-inches of filter pack was placed. A transition seal consisting of approximately 12-inches of dry bentonite was then placed above the filter pack, followed by an annular seal consisting of hydrated bentonite until the next sampling interval was reached. At the surface, the exposed nylon tubing was capped with tight fitting plastic endcaps and labeled to indicate sampling depth. After placement of the soil vapor sample probes on March 25, 2020, subsurface conditions were allowed to equilibrate a minimum of 2-hours prior to screening.

3.2.3 Soil Vapor Sampling

Soil vapor conditions were evaluated on May 25, 2020 using a Landtec GEM 5000 landfill gas meter. The Gem 5000 unit was connected directly to the vapor probe tubing. Once the instrument was initiated, soil vapor passed through the unit and measurements were recorded once parameters stabilized. Observed soil vapor conditions are discussed in Section 5.0.

3.2.4 Field Equipment Cleaning Procedures

To maintain quality control during drilling operations, all soil sampling equipment was decontaminated using a triple bucket rinse. Prior to drilling at a given location or sampling interval, all equipment coming in direct contact with soil samples was scrubbed with an Alconox scrub solution followed by a clean tap water rinse and then a final distilled water rinse.



4.0 LABORATORY TESTING PROGRAM

A total of eight (8) soil samples collected during this investigation were delivered under chain of custody to Environmental Treatment & Technology Inc., doing business as Advanced Technology Laboratories (ATL)., located in Signal Hill, California. ATL is certified to perform hazardous waste testing by the California State Water Resources Control Board (Water Board) Environmental Laboratory Accreditation Program (ELAP).

The eight (8) soil samples were analyzed to evaluate the potential accumulation of metals related to the small-arms shooting range located within Property Site Area 1. These soil samples were analyzed for the copper, lead, and nickel by United States Environmental Protection Agency (USEPA) test method 6010B. Additionally, a single soil sample was analyzed for the presence of volatile organic compounds (VOCs) by USEPA test method 8260B.

5.0 INVESTIGATION RESULTS

5.1 FIELD OBSERVATIONS

On May 22 and 25, 2020, Stantec personnel oversaw the advancement of eight (8) shallow soil borings (B1 through B8, Figure 3A), and two (2) soil vapor borings (SV-1 and SV-2, Figure 3B) at the Property. Soils encountered during the investigation consisted largely of well- to poorly-graded sands with varying degrees of fines. Groundwater was not encountered during this investigation. Minor solvent odors were observed at location B6, and appeared to not extend beyond approximately one foot in depth.

5.2 ANALYTICAL RESULTS

Laboratory test results from this assessment are presented on the laboratory data sheets attached as Appendix A. A summary of the analytical data from this assessment is provided in Table 1. The laboratory test results from this investigation are discussed below and were compared to the more conservative value between the DTSC Human and Ecologic Risk Office (HERO) Note 3 screening levels for commercial sites (DTSC, 2019), and the USEPA regional screening levels (RSLs) for commercial/industrial sites (USEPA, 2019).

5.2.1 Soil Results

Copper, lead, and nickel were detected above the laboratory reporting limit in all soil samples collected within the shooting range area. Copper concentrations ranged from 3.2 to 14.0 mg/kg; lead ranged from 2.9 to 17.0 mg/kg; and nickel ranged from 2.8 to 7.9 mg/kg. All of these detected concentrations were reported within typical California regional background levels, and below commercial-use screening criteria. Commercial-use screening levels in California are 47,000 mg/kg for copper, 320 mg/kg for lead, and 22,000 mg/kg for nickel. Additionally, no VOCs were detected above laboratory reporting limits in the soil sample collected at location B6 where chemical odors were observed. Therefore, Stantec recommends no further investigation regarding the shooting range in Site Area 1.

5.2.2 Soil Vapor Results

The presence of methane, oxygen, carbon monoxide, and balance gases were field screened at two locations at the Property, in close proximity to the Boron landfill, to investigate if soil vapor conditions have been affected from this facility. Oxygen levels ranged from 19.1 to 19.8 percent by volume (% vol); carbon monoxide readings were detected at 0.0 parts per million by volume (ppmv); and methane content was detected at 0.0 % vol. Due to the lack of methane detected in the soil vapor screening points, it appears that no methane has encroaching from the Boron Landfill onto the Property. Therefore, Stantec recommends no further investigation regarding this issue.

6.0 CONCLUSIONS AND RECOMMENDATIONS

On May 22 and 25, 2020, Stantec personnel oversaw the advancement of eight (8) shallow soil borings (B1 through B8) (Figure 3A), and two (2) soil vapor borings (SV-1 and SV-2) (Figure 3B) at the Property to evaluate potential impacts from the onsite small arms shooting range and adjacent landfill. Additional documents/reports prepared by BayWest, TechLaw, and TetraTech were also provided by the User for the PB-9 munitions response site (MRS) for Site Area 2. No Phase 2 ESA investigations were recommended for Site Areas 3 through 5. Conclusions and recommendations related to Site Areas 1 and 2 are discussed below.

Site Area 1

- Low detections of the metals copper, lead, and nickel and present in shallow soils within the small-arms shooting range located in Site Area 1, located in the southeastern portion of the Property. However, all detected concentrations of these metals are within typical California regional background ranges, and below commercial-use screening criteria. Therefore, Stantec recommends no additional investigation regarding the accumulation of metals in shallow soils in this area.

  Methane was detected at 0.0 % vol. in the two temporary soil vapor probes installed on the Property, in close proximity to the Boron landfill. Due to the lack of methane detected in the soil vapor screening points, it appears that no methane has encroaching from the Boron Landfill onto the Property. Therefore, Stantec recommends no further investigation regarding vapor encroachment from this facility.

  Multiple areas of discarded debris were observed throughout the Property, including debris within the small-arms shooting range. Stantec recommends removing these materials that are within the Property boundaries prior to Property development.

Site Area 2

- **Historical Target Site PB-9.** A historical target identified as “PB-9” was used by Edwards Air Force Base and was located along the southern Property boundary. The User provided additional documentation for the PB-9 munitions response site (MRS) prepared by BayWest, TechLaw, and TetraTech. In the BayWest and TechLaw reports, “identification and removal of munitions debris and non-munition related debris” was performed in portions of the Property in 2012. In total, 5,332 pound of munitions debris (MD) and 7,627 pounds of non-related munitions debris (NRMD) were removed from Site Area 2. While MD was found and removed, no munitions or explosives of concern (MEC) or materials potentially presenting and explosion hazard (MPPEH) have been found in Site Area 2 to date. In addition, environmental sampling performed within the vicinity of PB-9 reported no detectable levels of munitions constituents (MC) of concern above human health screening levels according to the Bay West report. A recommendation for no further action (NFA) was made to the state and Edwards Air Force Base in the *Remedial*

Investigation/Feasibility Study report prepared for PB-9 munitions response site (MRS) in February of 2018. A response on the NFA had not been received at the time of BayWest's letter report dated January 28, 2019.

The historical PB-9 target is considered a HREC to the Property. Although no MEC or MPPEH has been found in Site Area 2, the BayWest summary report recommends that at a minimum the following be performed:

1. *All site workers are given unexploded ordnance ("UXO") Awareness training by a DDESB Technical Paper 18 qualified UXO technician as part of the safety program. This training would focus on the munitions items that have previously been identified and associated with the site, including the condition they are likely to be found in.*
2. *In the event a munitions item is recovered follow notification procedures identified in the UXO Awareness training. Recognize, Retreat and Report the munitions item, initial report will be to California Highway Patrol ("CHP") office in Bakersfield, CA office, phone number (661) 396-6600. CHP will make notification to Edwards AFB Base Explosive Ordnance Disposal ("EOD") unit.*
3. *Any ground disturbance activities occurring within 1,000 feet of the historical PB-9 target should include construction support by a minimum of two DDESB Technical Paper 18 qualified UXO technicians. This would allow the opportunity for real-time surveillance of ground disturbing activities and an assessment of anomalous debris to be conducted immediately.*

In accordance with the above recommendations, TetraTech was contracted to prepare an Unexploded Ordnance (UXO) Construction Support Plan (CSP) dated May 2020 that was used during prior ground disturbance work related to geotechnical drilling at the Property. The CSP includes the above three recommendations from BayWest in addition to other guidance for construction support. Stantec recommends that the CSP be modified, as needed, to address future ground disturbance activities anticipated to occur during development. In addition, Stantec recommends that the minimum procedures recommended by BayWest be implemented at the Property during future construction work and that a new inquiry be made into the status of NFA recommended in the RI/FS report. If available, BayWest should review the RI/FS report for completeness regarding investigative work done at AL505-2 that lead to the NFA recommendation.

Aside from the recommendations regarding UXO awareness and construction support discussed under Site Area 1, no further assessment is recommended at the Property.

7.0 LIMITATIONS

The conclusions presented in this report are professional opinions based on data described in this report. The opinions of this report have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location and are subject to the following inherent limitations. Stantec makes no other warranty, either expressed or implied, concerning the conclusions and professional advice that is contained within the body of this report.

Inherent in most projects performed in a heterogeneous subsurface environment, continuing excavation and assessments may reveal findings that are different than those presented herein. This facet of the environmental profession should be considered when formulating professional opinions on the limited data collected on these projects.

This report has been issued with the clear understanding that it is the responsibility of the owner, or their representative, to make appropriate notifications to regulatory agencies. It is specifically not the responsibility of Stantec to conduct appropriate notifications as specified by current County and State regulations.

The information presented in this report is valid as of the date our exploration was performed. Site conditions may degrade with time; consequently, the findings presented herein are subject to change.

8.0 REFERENCES

Bay West, 2019, Peak Valley Solar Farm Project, Kern County, CA – Executive Summary Letter Report, dated January 28.

Department of Toxic Substances Control, 2015, Advisory – Active Soil Gas Investigation, dated July.

_____, 2019, Human and Ecologic Risk Office (HERO) Note 3 screening levels for commercial sites, dated April.

Department of Toxic Substances Control (DTSC), Envirostor website: https://www.envirostor.dtsc.ca.gov/public/

Division of Oil, Gas, and Geothermal Resources, Well Finder website: http://www.conservation.ca.gov/dog/Pages/Wellfinder.aspx

Kern County Public Works Department, 2019, 2018 Annual Monitoring Report, dated March.

Stantec, 2020, Phase I Environmental Site Assessment, revised March 30.

State Water Resources Control Board, GeoTracker website: https://geotracker.waterboards.ca.gov/

United States Environmental Protection Agency (USEPA), 2019, Regional Screening Levels, dated November.

TABLES

Table 1
Summary of Soil Analytical Results
Aratina Solar Farm

Boron, California

Stantec Project Number 185804366

Sample ID	Sample Depth [1]	Sample Date	Metals (6010B)			Volatile Organic Compounds (8260B)				
			Copper	Lead	Nickel	Benzene	Ethylbenzene	Toluene	Xylenes	Others
Background Concentrations [2]			9.1-96.4	12.7-97.1	9-509	NE	NE	NE	NE	NE
Commercial Screening Levels [3]			47,000	320	22,000	1.4	2.5	5,300	2,500	varies
B1-1	1	5/28/2020	**4.5**	**2.9**	**3.1**	NA	NA	NA	NA	NA
B2-1	1	5/28/2020	**4.1**	**8.0**	**2.8**	NA	NA	NA	NA	NA
B3-1	1	5/28/2020	**4.0**	**6.6**	**2.9**	NA	NA	NA	NA	NA
B4-1	1	5/28/2020	**3.8**	**14.0**	**2.7**	NA	NA	NA	NA	NA
B5-1	1	5/28/2020	**3.6**	**9.3**	**2.7**	NA	NA	NA	NA	NA
B6-1	1	5/28/2020	**3.2**	**5.5**	**2.3**	<0.0005	<0.0005	<0.0005	<0.0010	<varies
B7-1	1	5/28/2020	**14.0**	**17.0**	**7.9**	NA	NA	NA	NA	NA
B8-1	1	5/28/2020	**3.7**	**2.5**	**2.8**	NA	NA	NA	NA	NA

Notes:

All concentations reported in milligrams per kilogram (mg/Kg).

(1) Deprth reported as feet below ground surface

(2) Background Concentrations of Trace and Major Elements in California Soils, Kearney Foundation of Soil Science, University of California, Riverside, March 1996.

(3) More conservative value between the Department of Toxic Substances Control (DTSC) Human and Ecologic Risk Office (HERO) Note 3 (April, 2019) and United States Environmental Protection Agency (USEPA(Regional Screening Levels (RSLs) (November, 2019).

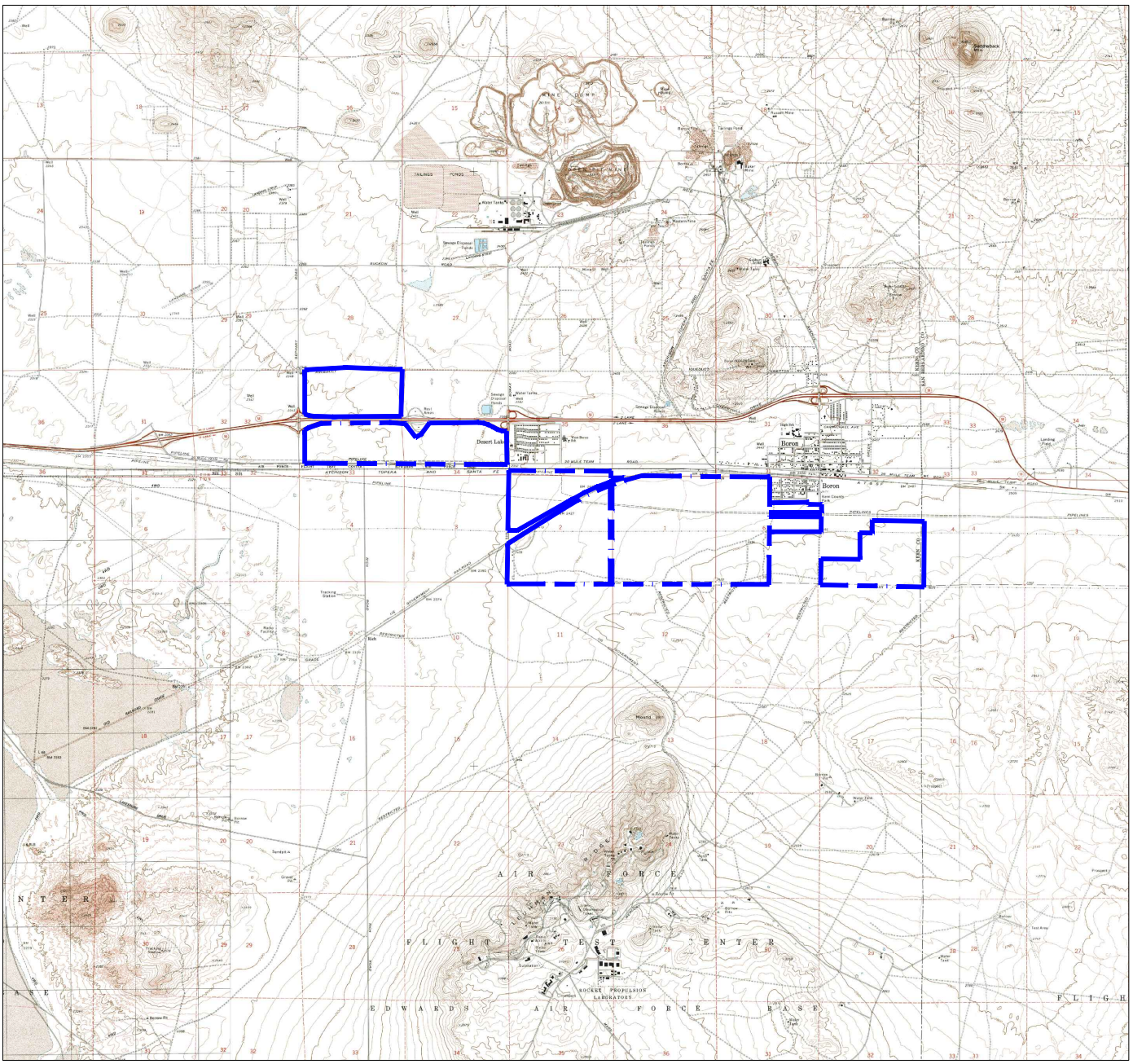
< - Indicates the concentration was not detected above the PQL

BOLD - Indicates the concentration was detected above the laboratory reporting limit

NA - Note Analyzed

NE - Not Established

FIGURES





4 2 0 4

SCALE IN MILE

4000 0 4000 8000 12000 16000 20000 24000 28000

SCALE IN FEET

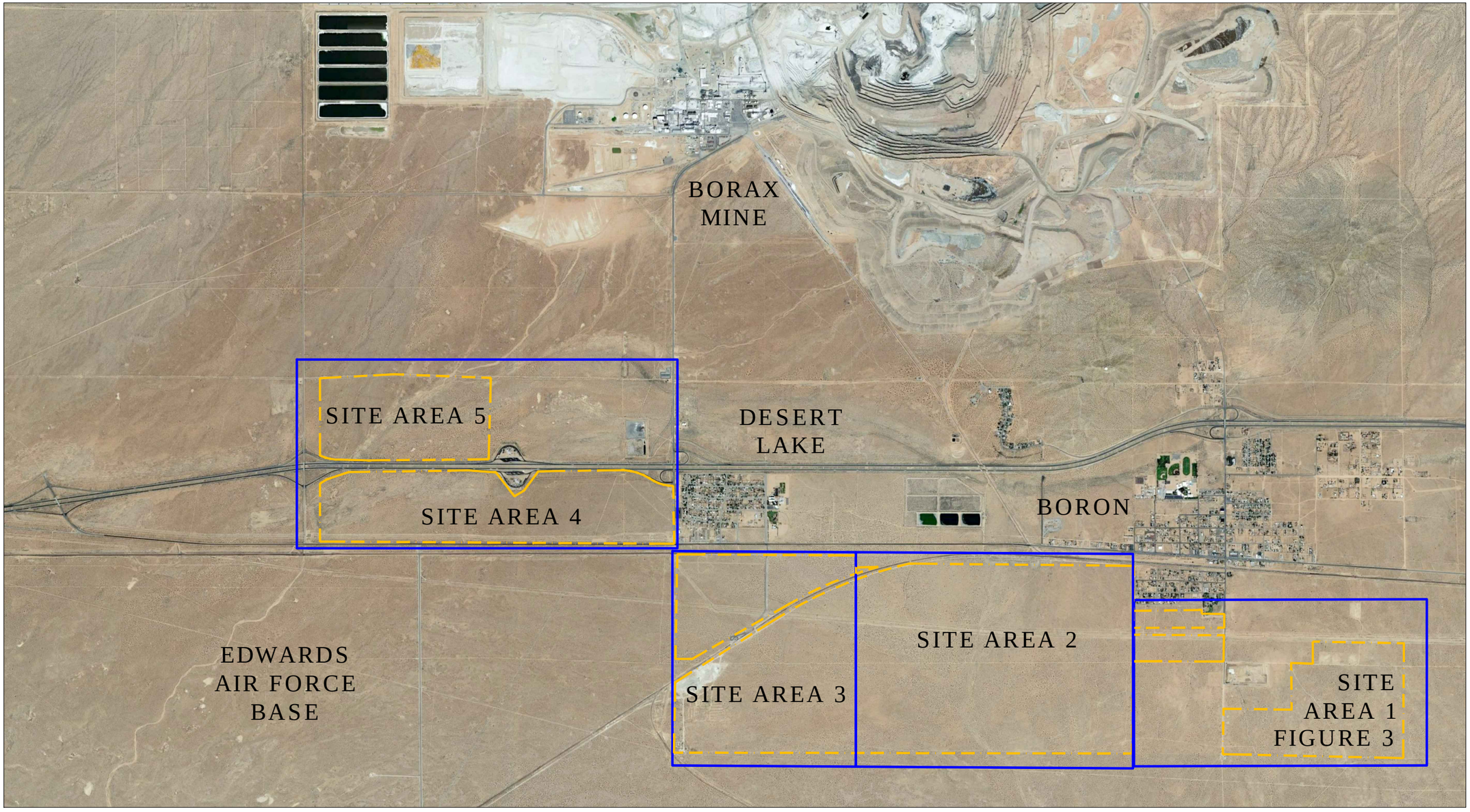
REFERENCE: USGS 7.5 X 15 MINUTE QUADRANGLE; BORON; 1973

Stantec

735 EAST CARNEGIE DRIVE, SUITE 280
SAN BERNARDINO, CA 92408
PHONE: (909) 335-6116 FAX: (909) 335-6120

FOR:		PROPERTY LOCATION MAP		FIGURE:
ARATINA SOLAR FARM PROJECT KERN COUNTY, CALIFORNIA				1
JOB NUMBER: 185804366	DRAWN BY: JEF	CHECKED BY: JEF	APPROVED BY: JEF	DATE: 3/17/19

FILEPATH:V:\1858\active\185804366\05_report_deliv\drawings_design\cad_fig\8min_aratina_environmental.dwg modified by jsargent on Jun 08, 2020 at 16:55



LEGEND

APPROXIMATE LIMITS OF PROPERTY

N

0 1/2 1

SCALE (MILES)

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PHONE:(909) 335-6116 FAX:(909) 335-6120

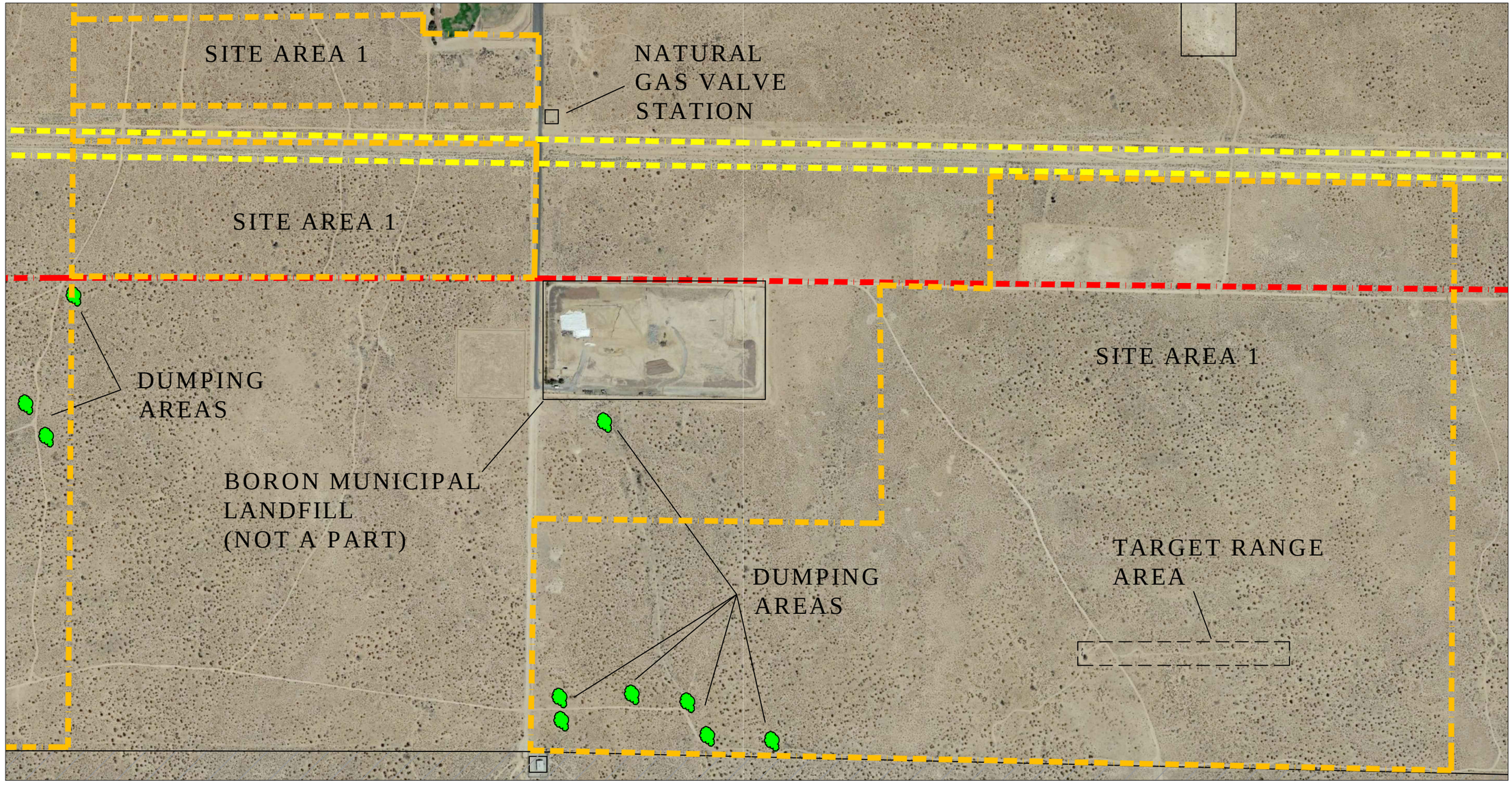
FOR: ARATINA SOLAR FARM PROJECT
KERN COUNTY, CALIFORNIA

PROPERTY AREA AND VICINITY MAP

FIGURE: 2

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185804366	JEF	JEF	JEF	3/17/19

FILEPATH:V:\1858\active\185804366\05_report_deliv\drawings_design\cad_fig\8min_aratina_environmental.dwg modified by jsargent on Jun 08, 2020 at 16:54



LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- APPROXIMATE LOCATION OF UNDERGROUND NATURAL GAS PIPELINE
- APPROXIMATE LOCATION OF ABOVEGROUND POWER UTILITIES

N

0 500 1000

SCALE (FEET)

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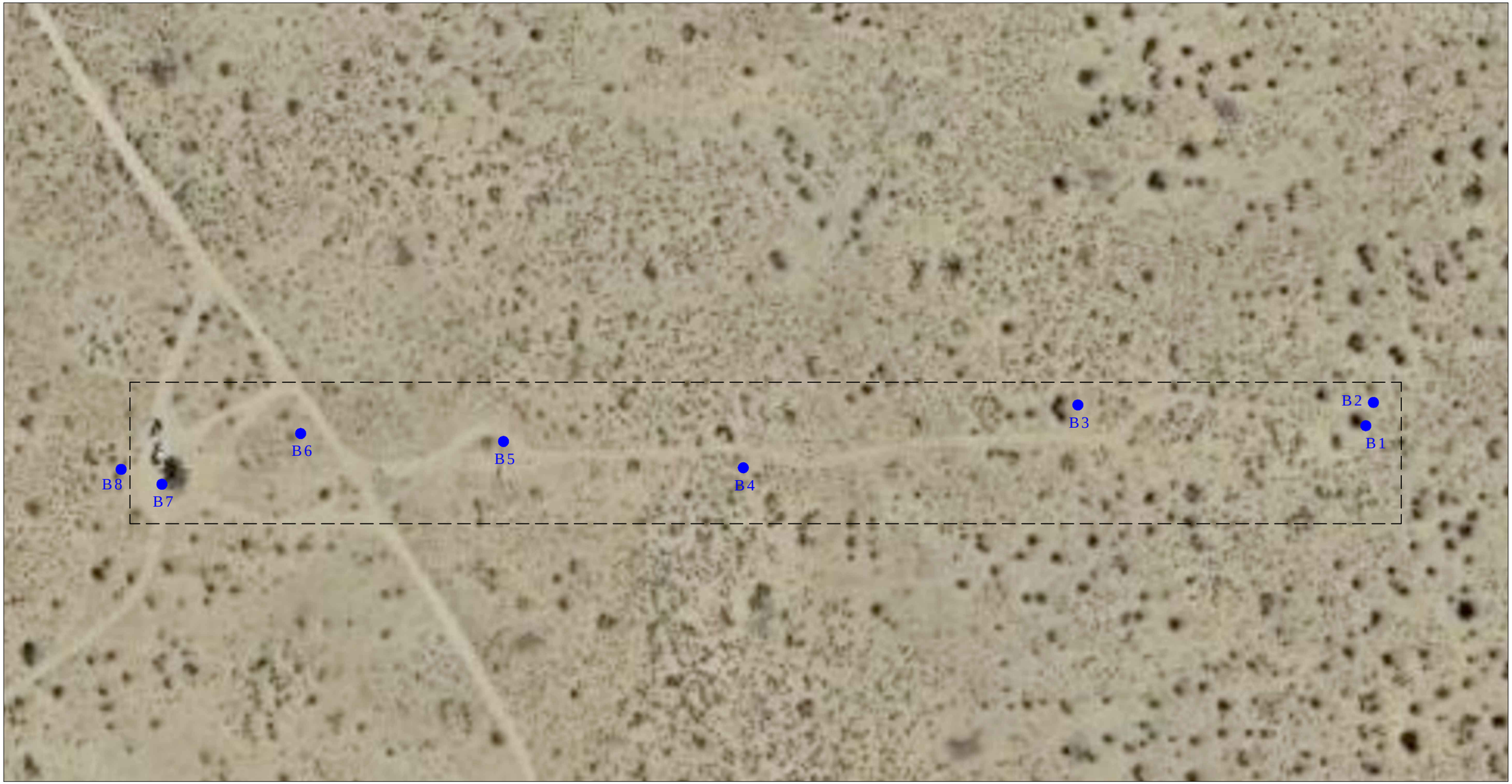
FOR: ARATINA SOLAR FARM PROJECT
KERN COUNTY, CALIFORNIA

PROPERTY DETAIL MAP - SITE AREA 1

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185804366	JEF	JEF	JEF	3/17/19

FILEPATH:V:\1858\active\185804366\05_report_deliv\drawings_design\cad_fig\8min_aratina_environmental.dwg modified by jsargent on Jun 08, 2020 at 16:54



LEGEND

APPROXIMATE EXTENT OF SHOOTING RANGE

SOIL BORING LOCATION

B8

N

0 100 200

SCALE (FEET)

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SAN BERNARDINO, CA 92408
PHONE:(909) 335-6116 FAX:(909) 335-6120

FOR:
ARATINA SOLAR FARM PROJECT
KERN COUNTY, CALIFORNIA

SITE AREA 1, TARGET RANGE
SOIL BORING MAP

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185804366	JS	DM	KE	06/08/2020

FILEPATH:V:\1858\active\185804366\05_report_deliv\drawings_design\cad_fig\8min_aratina_environmental.dwg modified by jsargent on Jun 08, 2020 at 16:54



LEGEND

APPROXIMATE LIMITS OF PROPERTY

APPROXIMATE LOCATION OF ABOVEGROUND POWER UTILITIES

SV-2 SOIL VAPOR BORING LOCATION

N

0 100 200

SCALE (FEET)

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SAN BERNARDINO, CA 92408
PHONE:(909) 335-6116 FAX:(909) 335-6120

FOR: ARATINA SOLAR FARM PROJECT
KERN COUNTY, CALIFORNIA

SITE AREA 1
SOIL VAPOR BORING MAP

FIGURE: 3B

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185804366	JS	DM	KE	06/08/2020

FILEPATH:V:\1858\active\185804366\05_report_deliv\drawings_design\cad_fig\8min_aratina_environmental.dwg modified by jsargent on Jun 08, 2020 at 16:54

APPENDIX A

Laboratory Data Sheets

ADVANCED TECHNOLOGY LABORATORIES

June 04, 2020

Dion Monge
Stantec
735 E. Carnegie Drive, Suite 280
San Bernardino, CA 92408
Tel: (909) 335-6116
Fax:(909) 335-6120

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 2001292
Client Reference : 185804366

Enclosed are the results for sample(s) received on May 28, 2020 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,



Dr. Reza Karimi
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.

Certificate of Analysis

Stantec	Project Number : 185804366
735 E. Carnegie Drive, Suite 280	Report To : Dion Monge
San Bernardino , CA 92408	Reported : 06/04/2020

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-1	2001292-01	Soil	5/22/20 10:05	5/28/20 10:30
B2-1	2001292-02	Soil	5/22/20 10:10	5/28/20 10:30
B3-1	2001292-03	Soil	5/22/20 10:15	5/28/20 10:30
B4-1	2001292-04	Soil	5/22/20 10:20	5/28/20 10:30
B5-1	2001292-05	Soil	5/22/20 10:25	5/28/20 10:30
B6-1	2001292-06	Soil	5/22/20 10:30	5/28/20 10:30
B7-1	2001292-07	Soil	5/22/20 10:35	5/28/20 10:30
B8-1	2001292-08	Soil	5/22/20 10:40	5/28/20 10:30

Certificate of Analysis

Stantec	Project Number : 185804366
735 E. Carnegie Drive, Suite 280	Report To : Dion Monge
San Bernardino , CA 92408	Reported : 06/04/2020

Client Sample ID: B1-1

Lab ID: 2001292-01

Total Metals by ICP-AES EPA 6010B **Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	**4.5**	2.0	1	B0F0038	06/02/2020	06/02/20 17:58	
Lead	**2.9**	1.0	1	B0F0038	06/02/2020	06/02/20 17:58	
Nickel	**3.1**	1.0	1	B0F0038	06/02/2020	06/02/20 17:58	

Certificate of Analysis

Stantec	Project Number : 185804366
735 E. Carnegie Drive, Suite 280	Report To : Dion Monge
San Bernardino , CA 92408	Reported : 06/04/2020

Client Sample ID: B2-1

Lab ID: 2001292-02

Total Metals by ICP-AES EPA 6010B **Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	**4.1**	2.0	1	B0F0038	06/02/2020	06/02/20 18:02	
Lead	**8.0**	1.0	1	B0F0038	06/02/2020	06/02/20 18:02	
Nickel	**2.8**	1.0	1	B0F0038	06/02/2020	06/02/20 18:02	

Certificate of Analysis

Stantec	Project Number : 185804366
735 E. Carnegie Drive, Suite 280	Report To : Dion Monge
San Bernardino , CA 92408	Reported : 06/04/2020

Client Sample ID: B3-1

Lab ID: 2001292-03

Total Metals by ICP-AES EPA 6010B **Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	**4.0**	2.0	1	B0F0038	06/02/2020	06/02/20 18:03	
Lead	**6.6**	1.0	1	B0F0038	06/02/2020	06/02/20 18:03	
Nickel	**2.9**	1.0	1	B0F0038	06/02/2020	06/02/20 18:03	

Certificate of Analysis

Stantec	Project Number : 185804366
735 E. Carnegie Drive, Suite 280	Report To : Dion Monge
San Bernardino , CA 92408	Reported : 06/04/2020

Client Sample ID: B4-1

Lab ID: 2001292-04

Total Metals by ICP-AES EPA 6010B **Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	**3.8**	2.0	1	B0F0038	06/02/2020	06/02/20 18:04	
Lead	**14**	1.0	1	B0F0038	06/02/2020	06/02/20 18:04	
Nickel	**2.7**	1.0	1	B0F0038	06/02/2020	06/02/20 18:04	

Certificate of Analysis

Stantec	Project Number : 185804366
735 E. Carnegie Drive, Suite 280	Report To : Dion Monge
San Bernardino , CA 92408	Reported : 06/04/2020

Client Sample ID: B5-1

Lab ID: 2001292-05

Total Metals by ICP-AES EPA 6010B **Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	**3.6**	2.0	1	B0F0038	06/02/2020	06/02/20 18:06	
Lead	**9.3**	1.0	1	B0F0038	06/02/2020	06/02/20 18:06	
Nickel	**2.7**	1.0	1	B0F0038	06/02/2020	06/02/20 18:06	

Certificate of Analysis

Stantec	Project Number : 185804366
735 E. Carnegie Drive, Suite 280	Report To : Dion Monge
San Bernardino , CA 92408	Reported : 06/04/2020

Client Sample ID: B6-1

Lab ID: 2001292-06

Total Metals by ICP-AES EPA 6010B **Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	**3.2**	2.0	1	B0F0038	06/02/2020	06/02/20 18:07	
Lead	**5.5**	1.0	1	B0F0038	06/02/2020	06/02/20 18:07	
Nickel	**2.3**	1.0	1	B0F0038	06/02/2020	06/02/20 18:07	

Volatile Organic Compounds by EPA 8260B **Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,1,1-Trichloroethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,1,2-Trichloroethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,1-Dichloroethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,1-Dichloroethene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,1-Dichloropropene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,2,3-Trichloropropane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,2,3-Trichlorobenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,2,4-Trichlorobenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,2,4-Trimethylbenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,2-Dibromo-3-chloropropane	ND	10	1	B0F0022	06/01/2020	06/01/20 23:31	
1,2-Dibromoethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,2-Dichlorobenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,2-Dichloroethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,2-Dichloropropane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,3,5-Trimethylbenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,3-Dichlorobenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,3-Dichloropropane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
1,4-Dichlorobenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
2,2-Dichloropropane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
2-Chlorotoluene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
4-Chlorotoluene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
4-Isopropyltoluene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Benzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Bromobenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Bromochloromethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Bromodichloromethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	

Certificate of Analysis

Stantec	Project Number : 185804366
735 E. Carnegie Drive, Suite 280	Report To : Dion Monge
San Bernardino , CA 92408	Reported : 06/04/2020

Client Sample ID: B6-1

Lab ID: 2001292-06

Volatile Organic Compounds by EPA 8260B **Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Bromoform	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Bromomethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Carbon disulfide	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Carbon tetrachloride	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Chlorobenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Chloroethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Chloroform	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Chloromethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
cis-1,2-Dichloroethene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
cis-1,3-Dichloropropene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Di-isopropyl ether	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Dibromochloromethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Dibromomethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Dichlorodifluoromethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Ethyl Acetate	ND	50	1	B0F0022	06/01/2020	06/01/20 23:31	
Ethyl Ether	ND	50	1	B0F0022	06/01/2020	06/01/20 23:31	
Ethyl tert-butyl ether	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Ethylbenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Freon-113	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Hexachlorobutadiene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Isopropylbenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
m,p-Xylene	ND	10	1	B0F0022	06/01/2020	06/01/20 23:31	
Methylene chloride	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
MTBE	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
n-Butylbenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
n-Propylbenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Naphthalene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
o-Xylene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
sec-Butylbenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Styrene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
tert-Amyl methyl ether	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
tert-Butanol	ND	100	1	B0F0022	06/01/2020	06/01/20 23:31	
tert-Butylbenzene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Tetrachloroethene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Toluene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
trans-1,2-Dichloroethene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	

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Client Sample ID: B6-1

Lab ID: 2001292-06

Volatile Organic Compounds by EPA 8260B **Analyst: KL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
trans-1,3-Dichloropropene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Trichloroethene	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Trichlorofluoromethane	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Vinyl acetate	ND	50	1	B0F0022	06/01/2020	06/01/20 23:31	
Vinyl chloride	ND	5.0	1	B0F0022	06/01/2020	06/01/20 23:31	
Surrogate: 1,2-Dichloroethane-d4	*113 %*	*58 - 160*		B0F0022	06/01/2020	*06/01/20 23:31*	
Surrogate: 4-Bromofluorobenzene	*97.9 %*	*72 - 121*		B0F0022	06/01/2020	*06/01/20 23:31*	
Surrogate: Dibromofluoromethane	*115 %*	*75 - 139*		B0F0022	06/01/2020	*06/01/20 23:31*	
Surrogate: Toluene-d8	*107 %*	*84 - 115*		B0F0022	06/01/2020	*06/01/20 23:31*	

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Client Sample ID: B7-1

Lab ID: 2001292-07

Total Metals by ICP-AES EPA 6010B **Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	**14**	2.0	1	B0F0038	06/02/2020	06/02/20 18:12	
Lead	**17**	1.0	1	B0F0038	06/02/2020	06/02/20 18:12	
Nickel	**7.9**	1.0	1	B0F0038	06/02/2020	06/02/20 18:12	

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Client Sample ID: B8-1

Lab ID: 2001292-08

Total Metals by ICP-AES EPA 6010B **Analyst: TA**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	**3.7**	2.0	1	B0F0038	06/02/2020	06/02/20 18:13	
Lead	**2.5**	1.0	1	B0F0038	06/02/2020	06/02/20 18:13	
Nickel	**2.8**	1.0	1	B0F0038	06/02/2020	06/02/20 18:13	

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QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B0F0038 - EPA 3050B_S										
Blank (B0F0038-BLK1)					Prepared: 6/2/2020 Analyzed: 6/2/2020					
Copper	ND	2.0	0.19							
Lead	ND	1.0	0.18							
Nickel	ND	1.0	0.18							
LCS (B0F0038-BS1)					Prepared: 6/2/2020 Analyzed: 6/2/2020					
Copper	28.9356	2.0	0.19	25.0000		116	80 - 120			
Lead	24.5216	1.0	0.18	25.0000		98.1	80 - 120			
Nickel	26.2640	1.0	0.18	25.0000		105	80 - 120			
Matrix Spike (B0F0038-MS1)			**Source: 2001292-01**		Prepared: 6/2/2020 Analyzed: 6/2/2020					
Copper	35.6952	2.0	0.19	25.1256	4.48811	124	44 - 118			M2
Lead	27.4724	1.0	0.18	25.1256	2.90079	97.8	33 - 121			
Nickel	27.6933	1.0	0.18	25.1256	3.10647	97.9	37 - 104			
Matrix Spike Dup (B0F0038-MSD1)			**Source: 2001292-01**		Prepared: 6/2/2020 Analyzed: 6/2/2020					
Copper	35.4430	2.0	0.19	25.0000	4.48811	124	44 - 118	0.709	20	M2
Lead	27.0572	1.0	0.18	25.0000	2.90079	96.6	33 - 121	1.52	20	
Nickel	27.5251	1.0	0.18	25.0000	3.10647	97.7	37 - 104	0.609	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B0F0022 - MSVOA_S										
Blank (B0F0022-BLK1)					Prepared: 6/1/2020 Analyzed: 6/1/2020					
1,1,1,2-Tetrachloroethane	ND	5.0	0.40							
1,1,1-Trichloroethane	ND	5.0	0.79							
1,1,2,2-Tetrachloroethane	ND	5.0	0.70							
1,1,2-Trichloroethane	ND	5.0	0.57							
1,1-Dichloroethane	ND	5.0	0.63							
1,1-Dichloroethene	ND	5.0	2.9							
1,1-Dichloropropene	ND	5.0	0.26							
1,2,3-Trichloropropane	ND	5.0	0.72							
1,2,3-Trichlorobenzene	ND	5.0	0.57							
1,2,4-Trichlorobenzene	ND	5.0	0.61							
1,2,4-Trimethylbenzene	ND	5.0	1.0							
1,2-Dibromo-3-chloropropane	ND	10	1.2							
1,2-Dibromoethane	ND	5.0	0.28							
1,2-Dichlorobenzene	ND	5.0	0.45							
1,2-Dichloroethane	ND	5.0	0.88							
1,2-Dichloropropane	ND	5.0	0.67							
1,3,5-Trimethylbenzene	ND	5.0	0.35							
1,3-Dichlorobenzene	ND	5.0	0.41							
1,3-Dichloropropane	ND	5.0	0.49							
1,4-Dichlorobenzene	ND	5.0	0.39							
2,2-Dichloropropane	ND	5.0	0.61							
2-Chlorotoluene	ND	5.0	0.26							
4-Chlorotoluene	ND	5.0	0.20							
4-Isopropyltoluene	ND	5.0	0.28							
Benzene	ND	5.0	0.37							
Bromobenzene	ND	5.0	0.44							
Bromochloromethane	ND	5.0	0.99							
Bromodichloromethane	ND	5.0	0.58							
Bromoform	ND	5.0	0.37							
Bromomethane	ND	5.0	4.7							
Carbon disulfide	ND	5.0	3.2							
Carbon tetrachloride	ND	5.0	0.65							
Chlorobenzene	ND	5.0	0.29							
Chloroethane	ND	5.0	4.0							
Chloroform	ND	5.0	0.75							
Chloromethane	ND	5.0	0.98							
cis-1,2-Dichloroethene	ND	5.0	0.82							
cis-1,3-Dichloropropene	ND	5.0	0.22							
Di-isopropyl ether	ND	5.0	0.55							
Dibromochloromethane	ND	5.0	0.20							

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B0F0022 - MSVOA_S (continued)										
Blank (B0F0022-BLK1) - Continued					Prepared: 6/1/2020 Analyzed: 6/1/2020					
Dibromomethane	ND	5.0	0.56							
Dichlorodifluoromethane	ND	5.0	2.6							
Ethyl Acetate	ND	50	10							
Ethyl Ether	ND	50	20							
Ethyl tert-butyl ether	ND	5.0	0.32							
Ethylbenzene	ND	5.0	0.26							
Freon-113	ND	5.0	3.7							
Hexachlorobutadiene	ND	5.0	0.40							
Isopropylbenzene	ND	5.0	0.32							
m,p-Xylene	ND	10	0.86							
Methylene chloride	ND	5.0	3.4							
MTBE	ND	5.0	1.3							
n-Butylbenzene	ND	5.0	0.42							
n-Propylbenzene	ND	5.0	0.25							
Naphthalene	ND	5.0	0.50							
o-Xylene	ND	5.0	0.46							
sec-Butylbenzene	ND	5.0	0.36							
Styrene	ND	5.0	0.38							
tert-Amyl methyl ether	ND	5.0	0.43							
tert-Butanol	ND	100	7.4							
tert-Butylbenzene	ND	5.0	0.33							
Tetrachloroethene	ND	5.0	0.31							
Toluene	ND	5.0	0.47							
trans-1,2-Dichloroethene	ND	5.0	1.4							
trans-1,3-Dichloropropene	ND	5.0	0.48							
Trichloroethene	ND	5.0	0.64							
Trichlorofluoromethane	ND	5.0	0.79							
Vinyl acetate	ND	50	9.0							
Vinyl chloride	ND	5.0	0.74							
Surrogate: 1,2-Dichloroethane-d4	*55.51*			*50.0000*		*111*	*58 - 160*			
Surrogate: 4-Bromofluorobenzene	*47.20*			*50.0000*		*94.4*	*72 - 121*			
Surrogate: Dibromofluoromethan	*53.86*			*50.0000*		*108*	*75 - 139*			
Surrogate: Toluene-d8	*50.98*			*50.0000*		*102*	*84 - 115*			
LCS (B0F0022-BS1)					Prepared: 6/1/2020 Analyzed: 6/1/2020					
1,1,1,2-Tetrachloroethane	51.9100	5.0	0.40	50.0000		104	80 - 114			
1,1,1-Trichloroethane	56.5200	5.0	0.79	50.0000		113	71 - 127			
1,1,2,2-Tetrachloroethane	44.0800	5.0	0.70	50.0000		88.2	73 - 113			
1,1,2-Trichloroethane	54.8500	5.0	0.57	50.0000		110	78 - 112			
1,1-Dichloroethane	54.1400	5.0	0.63	50.0000		108	73 - 123			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B0F0022 - MSVOA_S (continued)										
LCS (B0F0022-BS1) - Continued					Prepared: 6/1/2020 Analyzed: 6/1/2020					
1,1-Dichloroethene	57.1100	5.0	2.9	50.0000		114	59 - 139			
1,1-Dichloropropene	53.3500	5.0	0.26	50.0000		107	78 - 131			
1,2,3-Trichloropropane	50.7400	5.0	0.72	50.0000		101	71 - 117			
1,2,3-Trichlorobenzene	52.0400	5.0	0.57	50.0000		104	68 - 134			
1,2,4-Trichlorobenzene	49.0000	5.0	0.61	50.0000		98.0	72 - 141			
1,2,4-Trimethylbenzene	52.5400	5.0	1.0	50.0000		105	81 - 122			
1,2-Dibromo-3-chloropropane	48.9700	10	1.2	50.0000		97.9	64 - 134			
1,2-Dibromoethane	54.9200	5.0	0.28	50.0000		110	78 - 113			
1,2-Dichlorobenzene	51.7200	5.0	0.45	50.0000		103	79 - 119			
1,2-Dichloroethane	59.3700	5.0	0.88	50.0000		119	62 - 126			
1,2-Dichloropropane	50.5500	5.0	0.67	50.0000		101	77 - 120			
1,3,5-Trimethylbenzene	51.6000	5.0	0.35	50.0000		103	80 - 123			
1,3-Dichlorobenzene	49.1900	5.0	0.41	50.0000		98.4	80 - 118			
1,3-Dichloropropane	53.1000	5.0	0.49	50.0000		106	80 - 114			
1,4-Dichlorobenzene	51.0200	5.0	0.39	50.0000		102	80 - 117			
2,2-Dichloropropane	54.7800	5.0	0.61	50.0000		110	66 - 133			
2-Chlorotoluene	48.2500	5.0	0.26	50.0000		96.5	79 - 117			
4-Chlorotoluene	50.5300	5.0	0.20	50.0000		101	80 - 117			
4-Isopropyltoluene	49.5600	5.0	0.28	50.0000		99.1	81 - 130			
Benzene	53.4600	5.0	0.37	50.0000		107	79 - 116			
Bromobenzene	50.8700	5.0	0.44	50.0000		102	76 - 113			
Bromochloromethane	60.5800	5.0	0.99	50.0000		121	74 - 113			L3
Bromodichloromethane	56.2700	5.0	0.58	50.0000		113	74 - 115			
Bromoform	55.9700	5.0	0.37	50.0000		112	70 - 118			
Bromomethane	69.9400	5.0	4.7	50.0000		140	41 - 170			
Carbon disulfide	58.0000	5.0	3.2	50.0000		116	53 - 139			
Carbon tetrachloride	54.7000	5.0	0.65	50.0000		109	71 - 131			
Chlorobenzene	51.9600	5.0	0.29	50.0000		104	83 - 114			
Chloroethane	57.8500	5.0	4.0	50.0000		116	61 - 165			
Chloroform	58.5900	5.0	0.75	50.0000		117	73 - 117			
Chloromethane	49.3000	5.0	0.98	50.0000		98.6	51 - 147			
cis-1,2-Dichloroethene	56.3400	5.0	0.82	50.0000		113	73 - 121			
cis-1,3-Dichloropropene	56.7000	5.0	0.22	50.0000		113	81 - 136			
Di-isopropyl ether	49.1700	5.0	0.55	50.0000		98.3	66 - 126			
Dibromochloromethane	55.4900	5.0	0.20	50.0000		111	77 - 114			
Dibromomethane	56.9400	5.0	0.56	50.0000		114	78 - 110			L3
Dichlorodifluoromethane	57.3900	5.0	2.6	50.0000		115	22 - 172			
Ethyl Acetate	580.850	50	10	500.000		116	48 - 147			
Ethyl Ether	572.730	50	20	500.000		115	40 - 155			
Ethyl tert-butyl ether	53.0900	5.0	0.32	50.0000		106	50 - 150			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B0F0022 - MSVOA_S (continued)										
LCS (B0F0022-BS1) - Continued					Prepared: 6/1/2020 Analyzed: 6/1/2020					
Ethylbenzene	50.3600	5.0	0.26	50.0000		101	73 - 128			
Freon-113	52.8700	5.0	3.7	50.0000		106	60 - 144			
Hexachlorobutadiene	45.5500	5.0	0.40	50.0000		91.1	72 - 147			
Isopropylbenzene	48.4000	5.0	0.32	50.0000		96.8	79 - 134			
m,p-Xylene	108.090	10	0.86	100.000		108	79 - 128			
Methylene chloride	55.1000	5.0	3.4	50.0000		110	60 - 131			
MTBE	57.1300	5.0	1.3	50.0000		114	57 - 131			
n-Butylbenzene	48.8300	5.0	0.42	50.0000		97.7	82 - 134			
n-Propylbenzene	48.8400	5.0	0.25	50.0000		97.7	78 - 127			
Naphthalene	48.8700	5.0	0.50	50.0000		97.7	67 - 131			
o-Xylene	51.0600	5.0	0.46	50.0000		102	79 - 126			
sec-Butylbenzene	48.4200	5.0	0.36	50.0000		96.8	79 - 130			
Styrene	60.4300	5.0	0.38	50.0000		121	81 - 125			
tert-Amyl methyl ether	51.3400	5.0	0.43	50.0000		103	50 - 142			
tert-Butanol	293.980	100	7.4	250.000		118	0 - 168			
tert-Butylbenzene	48.3700	5.0	0.33	50.0000		96.7	80 - 126			
Tetrachloroethene	46.4400	5.0	0.31	50.0000		92.9	76 - 127			
Toluene	54.1700	5.0	0.47	50.0000		108	79 - 119			
trans-1,2-Dichloroethene	55.0700	5.0	1.4	50.0000		110	66 - 128			
trans-1,3-Dichloropropene	61.1700	5.0	0.48	50.0000		122	76 - 117			L3
Trichloroethene	55.7400	5.0	0.64	50.0000		111	81 - 120			
Trichlorofluoromethane	49.3700	5.0	0.79	50.0000		98.7	63 - 138			
Vinyl acetate	546.340	50	9.0	500.000		109	60 - 149			
Vinyl chloride	55.3700	5.0	0.74	50.0000		111	58 - 142			
Surrogate: 1,2-Dichloroethane-d4	*58.91*			*50.0000*		*118*	*58 - 160*			
Surrogate: 4-Bromofluorobenzene	*51.25*			*50.0000*		*102*	*72 - 121*			
Surrogate: Dibromofluoromethan	*59.02*			*50.0000*		*118*	*75 - 139*			
Surrogate: Toluene-d8	*54.97*			*50.0000*		*110*	*84 - 115*			
LCS Dup (B0F0022-BSD1)					Prepared: 6/1/2020 Analyzed: 6/1/2020					
1,1,1,2-Tetrachloroethane	55.6700	5.0	0.40	50.0000		111	80 - 114	6.99	20	
1,1,1-Trichloroethane	51.2200	5.0	0.79	50.0000		102	71 - 127	9.84	20	
1,1,2,2-Tetrachloroethane	49.3400	5.0	0.70	50.0000		98.7	73 - 113	11.3	20	
1,1,2-Trichloroethane	57.1200	5.0	0.57	50.0000		114	78 - 112	4.05	20	L3
1,1-Dichloroethane	49.4400	5.0	0.63	50.0000		98.9	73 - 123	9.08	20	
1,1-Dichloroethene	52.2100	5.0	2.9	50.0000		104	59 - 139	8.96	20	
1,1-Dichloropropene	48.7300	5.0	0.26	50.0000		97.5	78 - 131	9.05	20	
1,2,3-Trichloropropane	53.0000	5.0	0.72	50.0000		106	71 - 117	4.36	20	
1,2,3-Trichlorobenzene	55.3800	5.0	0.57	50.0000		111	68 - 134	6.22	20	
1,2,4-Trichlorobenzene	52.6700	5.0	0.61	50.0000		105	72 - 141	7.22	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B0F0022 - MSVOA_S (continued)										
LCS Dup (B0F0022-BSD1) - Continued					Prepared: 6/1/2020 Analyzed: 6/1/2020					
1,2,4-Trimethylbenzene	56.3200	5.0	1.0	50.0000		113	81 - 122	6.94	20	
1,2-Dibromo-3-chloropropane	53.1900	10	1.2	50.0000		106	64 - 134	8.26	20	
1,2-Dibromoethane	56.2200	5.0	0.28	50.0000		112	78 - 113	2.34	20	
1,2-Dichlorobenzene	54.9500	5.0	0.45	50.0000		110	79 - 119	6.06	20	
1,2-Dichloroethane	55.1400	5.0	0.88	50.0000		110	62 - 126	7.39	20	
1,2-Dichloropropane	47.2900	5.0	0.67	50.0000		94.6	77 - 120	6.66	20	
1,3,5-Trimethylbenzene	55.7900	5.0	0.35	50.0000		112	80 - 123	7.80	20	
1,3-Dichlorobenzene	53.6900	5.0	0.41	50.0000		107	80 - 118	8.75	20	
1,3-Dichloropropane	53.1900	5.0	0.49	50.0000		106	80 - 114	0.169	20	
1,4-Dichlorobenzene	54.2000	5.0	0.39	50.0000		108	80 - 117	6.04	20	
2,2-Dichloropropane	51.1900	5.0	0.61	50.0000		102	66 - 133	6.78	20	
2-Chlorotoluene	52.5700	5.0	0.26	50.0000		105	79 - 117	8.57	20	
4-Chlorotoluene	54.6400	5.0	0.20	50.0000		109	80 - 117	7.82	20	
4-Isopropyltoluene	55.0400	5.0	0.28	50.0000		110	81 - 130	10.5	20	
Benzene	49.4200	5.0	0.37	50.0000		98.8	79 - 116	7.85	20	
Bromobenzene	54.2000	5.0	0.44	50.0000		108	76 - 113	6.34	20	
Bromochloromethane	53.8900	5.0	0.99	50.0000		108	74 - 113	11.7	20	
Bromodichloromethane	54.2500	5.0	0.58	50.0000		108	74 - 115	3.66	20	
Bromoform	56.8400	5.0	0.37	50.0000		114	70 - 118	1.54	20	
Bromomethane	67.8400	5.0	4.7	50.0000		136	41 - 170	3.05	20	
Carbon disulfide	54.6100	5.0	3.2	50.0000		109	53 - 139	6.02	20	
Carbon tetrachloride	47.8100	5.0	0.65	50.0000		95.6	71 - 131	13.4	20	
Chlorobenzene	54.2600	5.0	0.29	50.0000		109	83 - 114	4.33	20	
Chloroethane	55.4300	5.0	4.0	50.0000		111	61 - 165	4.27	20	
Chloroform	53.2100	5.0	0.75	50.0000		106	73 - 117	9.62	20	
Chloromethane	46.7700	5.0	0.98	50.0000		93.5	51 - 147	5.27	20	
cis-1,2-Dichloroethene	52.6700	5.0	0.82	50.0000		105	73 - 121	6.73	20	
cis-1,3-Dichloropropene	54.2700	5.0	0.22	50.0000		109	81 - 136	4.38	20	
Di-isopropyl ether	47.8100	5.0	0.55	50.0000		95.6	66 - 126	2.80	20	
Dibromochloromethane	56.9800	5.0	0.20	50.0000		114	77 - 114	2.65	20	
Dibromomethane	52.7400	5.0	0.56	50.0000		105	78 - 110	7.66	20	
Dichlorodifluoromethane	54.3100	5.0	2.6	50.0000		109	22 - 172	5.51	20	
Ethyl Acetate	543.850	50	10	500.000		109	48 - 147	6.58	20	
Ethyl Ether	529.980	50	20	500.000		106	40 - 155	7.75	20	
Ethyl tert-butyl ether	51.0300	5.0	0.32	50.0000		102	50 - 150	3.96	20	
Ethylbenzene	53.0900	5.0	0.26	50.0000		106	73 - 128	5.28	20	
Freon-113	49.9600	5.0	3.7	50.0000		99.9	60 - 144	5.66	20	
Hexachlorobutadiene	51.2600	5.0	0.40	50.0000		103	72 - 147	11.8	20	
Isopropylbenzene	52.1500	5.0	0.32	50.0000		104	79 - 134	7.46	20	
m,p-Xylene	113.280	10	0.86	100.000		113	79 - 128	4.69	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B0F0022 - MSVOA_S (continued)										
LCS Dup (B0F0022-BSD1) - Continued					Prepared: 6/1/2020 Analyzed: 6/1/2020					
Methylene chloride	52.3500	5.0	3.4	50.0000		105	60 - 131	5.12	20	
MTBE	53.0800	5.0	1.3	50.0000		106	57 - 131	7.35	20	
n-Butylbenzene	52.7900	5.0	0.42	50.0000		106	82 - 134	7.79	20	
n-Propylbenzene	52.9100	5.0	0.25	50.0000		106	78 - 127	8.00	20	
Naphthalene	52.1800	5.0	0.50	50.0000		104	67 - 131	6.55	20	
o-Xylene	54.1600	5.0	0.46	50.0000		108	79 - 126	5.89	20	
sec-Butylbenzene	53.0400	5.0	0.36	50.0000		106	79 - 130	9.11	20	
Styrene	64.5200	5.0	0.38	50.0000		129	81 - 125	6.55	20	L3
tert-Amyl methyl ether	50.9600	5.0	0.43	50.0000		102	50 - 142	0.743	20	
tert-Butanol	305.050	100	7.4	250.000		122	0 - 168	3.70	20	
tert-Butylbenzene	53.1900	5.0	0.33	50.0000		106	80 - 126	9.49	20	
Tetrachloroethene	47.9000	5.0	0.31	50.0000		95.8	76 - 127	3.10	20	
Toluene	52.7000	5.0	0.47	50.0000		105	79 - 119	2.75	20	
trans-1,2-Dichloroethene	49.4000	5.0	1.4	50.0000		98.8	66 - 128	10.9	20	
trans-1,3-Dichloropropene	61.6500	5.0	0.48	50.0000		123	76 - 117	0.782	20	L3
Trichloroethene	50.6900	5.0	0.64	50.0000		101	81 - 120	9.49	20	
Trichlorofluoromethane	47.4300	5.0	0.79	50.0000		94.9	63 - 138	4.01	20	
Vinyl acetate	507.530	50	9.0	500.000		102	60 - 149	7.37	20	
Vinyl chloride	50.2800	5.0	0.74	50.0000		101	58 - 142	9.64	20	
Surrogate: 1,2-Dichloroethane-d4	*51.50*			*50.0000*		*103*	*58 - 160*			
Surrogate: 4-Bromofluorobenzene	*50.92*			*50.0000*		*102*	*72 - 121*			
Surrogate: Dibromofluoromethan	*55.89*			*50.0000*		*112*	*75 - 139*			
Surrogate: Toluene-d8	*51.87*			*50.0000*		*104*	*84 - 115*			
Matrix Spike (B0F0022-MS1)			**Source: 2001310-01**		Prepared: 6/1/2020 Analyzed: 6/1/2020					
1,1,1,2-Tetrachloroethane	44.9800	5.0	0.40	50.0000	ND	90.0	42 - 128			
1,1,1-Trichloroethane	48.2300	5.0	0.79	50.0000	ND	96.5	41 - 138			
1,1,2,2-Tetrachloroethane	44.8400	5.0	0.70	50.0000	ND	89.7	33 - 136			
1,1,2-Trichloroethane	47.6100	5.0	0.57	50.0000	ND	95.2	46 - 129			
1,1-Dichloroethane	45.0600	5.0	0.63	50.0000	ND	90.1	43 - 134			
1,1-Dichloroethene	49.5800	5.0	2.9	50.0000	ND	99.2	29 - 152			
1,1-Dichloropropene	46.0500	5.0	0.26	50.0000	ND	92.1	44 - 138			
1,2,3-Trichloropropane	48.9300	5.0	0.72	50.0000	ND	97.9	41 - 135			
1,2,3-Trichlorobenzene	48.8400	5.0	0.57	50.0000	ND	97.7	0 - 156			
1,2,4-Trichlorobenzene	45.8800	5.0	0.61	50.0000	ND	91.8	0 - 161			
1,2,4-Trimethylbenzene	49.5400	5.0	1.0	50.0000	ND	99.1	31 - 136			
1,2-Dibromo-3-chloropropane	52.6600	10	1.2	50.0000	ND	105	26 - 159			
1,2-Dibromoethane	49.1900	5.0	0.28	50.0000	ND	98.4	44 - 129			
1,2-Dichlorobenzene	48.1600	5.0	0.45	50.0000	ND	96.3	24 - 138			
1,2-Dichloroethane	48.4000	5.0	0.88	50.0000	ND	96.8	39 - 132			

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B0F0022 - MSVOA_S (continued)										
Matrix Spike (B0F0022-MS1) - Continued			**Source: 2001310-01**		Prepared: 6/1/2020 Analyzed: 6/1/2020					
1,2-Dichloropropane	43.6800	5.0	0.67	50.0000	ND	87.4	45 - 129			
1,3,5-Trimethylbenzene	49.1900	5.0	0.35	50.0000	ND	98.4	31 - 135			
1,3-Dichlorobenzene	46.9200	5.0	0.41	50.0000	ND	93.8	26 - 134			
1,3-Dichloropropane	46.9000	5.0	0.49	50.0000	ND	93.8	49 - 127			
1,4-Dichlorobenzene	47.8900	5.0	0.39	50.0000	ND	95.8	25 - 133			
2,2-Dichloropropane	48.9500	5.0	0.61	50.0000	ND	97.9	37 - 139			
2-Chlorotoluene	46.0700	5.0	0.26	50.0000	ND	92.1	33 - 129			
4-Chlorotoluene	47.1500	5.0	0.20	50.0000	ND	94.3	32 - 129			
4-Isopropyltoluene	48.3500	5.0	0.28	50.0000	ND	96.7	23 - 145			
Benzene	44.5000	5.0	0.37	50.0000	ND	89.0	46 - 126			
Bromobenzene	47.2300	5.0	0.44	50.0000	ND	94.5	34 - 126			
Bromochloromethane	50.9500	5.0	0.99	50.0000	ND	102	46 - 125			
Bromodichloromethane	47.6300	5.0	0.58	50.0000	ND	95.3	44 - 125			
Bromoform	51.7200	5.0	0.37	50.0000	ND	103	35 - 136			
Bromomethane	61.9800	5.0	4.7	50.0000	ND	124	20 - 166			
Carbon disulfide	51.7200	5.0	3.2	50.0000	ND	103	24 - 147			
Carbon tetrachloride	45.7600	5.0	0.65	50.0000	ND	91.5	38 - 141			
Chlorobenzene	47.7700	5.0	0.29	50.0000	ND	95.5	41 - 127			
Chloroethane	49.5400	5.0	4.0	50.0000	ND	99.1	28 - 163			
Chloroform	48.8900	5.0	0.75	50.0000	ND	97.8	45 - 128			
Chloromethane	43.7200	5.0	0.98	50.0000	ND	87.4	24 - 149			
cis-1,2-Dichloroethene	47.0800	5.0	0.82	50.0000	ND	94.2	44 - 129			
cis-1,3-Dichloropropene	47.5300	5.0	0.22	50.0000	ND	95.1	44 - 146			
Di-isopropyl ether	44.7800	5.0	0.55	50.0000	ND	89.6	41 - 134			
Dibromochloromethane	49.1800	5.0	0.20	50.0000	ND	98.4	44 - 127			
Dibromomethane	48.7100	5.0	0.56	50.0000	ND	97.4	47 - 124			
Dichlorodifluoromethane	52.9600	5.0	2.6	50.0000	ND	106	4 - 161			
Ethyl Acetate	343.080	50	10	500.000	ND	68.6	0 - 153			
Ethyl Ether	480.640	50	20	500.000	ND	96.1	18 - 167			
Ethyl tert-butyl ether	46.8300	5.0	0.32	50.0000	ND	93.7	23 - 162			
Ethylbenzene	45.5800	5.0	0.26	50.0000	ND	91.2	38 - 132			
Freon-113	47.9600	5.0	3.7	50.0000	ND	95.9	25 - 157			
Hexachlorobutadiene	44.9300	5.0	0.40	50.0000	ND	89.9	0 - 162			
Isopropylbenzene	46.6200	5.0	0.32	50.0000	ND	93.2	36 - 142			
m,p-Xylene	98.5800	10	0.86	100.000	ND	98.6	38 - 135			
Methylene chloride	47.1800	5.0	3.4	50.0000	ND	94.4	37 - 137			
MTBE	50.7100	5.0	1.3	50.0000	ND	101	32 - 147			
n-Butylbenzene	46.5500	5.0	0.42	50.0000	ND	93.1	19 - 149			
n-Propylbenzene	46.1200	5.0	0.25	50.0000	ND	92.2	29 - 138			
Naphthalene	49.2300	5.0	0.50	50.0000	4.24000	90.0	1 - 162			

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Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B0F0022 - MSVOA_S (continued)										
Matrix Spike (B0F0022-MS1) - Continued			**Source: 2001310-01**			Prepared: 6/1/2020 Analyzed: 6/1/2020				
o-Xylene	47.1700	5.0	0.46	50.0000	ND	94.3	38 - 133			
sec-Butylbenzene	47.5000	5.0	0.36	50.0000	ND	95.0	25 - 142			
Styrene	55.2500	5.0	0.38	50.0000	ND	110	35 - 136			
tert-Amyl methyl ether	47.9500	5.0	0.43	50.0000	ND	95.9	29 - 147			
tert-Butanol	284.970	100	7.4	250.000	ND	114	0 - 196			
tert-Butylbenzene	47.9300	5.0	0.33	50.0000	ND	95.9	29 - 140			
Tetrachloroethene	43.0000	5.0	0.31	50.0000	ND	86.0	36 - 135			
Toluene	47.6000	5.0	0.47	50.0000	ND	95.2	45 - 127			
trans-1,2-Dichloroethene	46.7300	5.0	1.4	50.0000	ND	93.5	39 - 135			
trans-1,3-Dichloropropene	54.0100	5.0	0.48	50.0000	ND	108	40 - 132			
Trichloroethene	47.5300	5.0	0.64	50.0000	ND	95.1	32 - 149			
Trichlorofluoromethane	44.9900	5.0	0.79	50.0000	ND	90.0	24 - 156			
Vinyl acetate	207.500	50	9.0	500.000	ND	41.5	0 - 165			
Vinyl chloride	48.4000	5.0	0.74	50.0000	ND	96.8	32 - 144			
Surrogate: 1,2-Dichloroethane-d4	*53.29*			*50.0000*		*107*	*58 - 160*			
Surrogate: 4-Bromofluorobenzene	*52.53*			*50.0000*		*105*	*72 - 121*			
Surrogate: Dibromofluoromethan	*55.15*			*50.0000*		*110*	*75 - 139*			
Surrogate: Toluene-d8	*53.17*			*50.0000*		*106*	*84 - 115*			
Matrix Spike Dup (B0F0022-MSD1)			**Source: 2001310-01**			Prepared: 6/1/2020 Analyzed: 6/1/2020				
1,1,1,2-Tetrachloroethane	44.1200	5.0	0.40	50.0000	ND	88.2	42 - 128	1.93	20	
1,1,1-Trichloroethane	45.7700	5.0	0.79	50.0000	ND	91.5	41 - 138	5.23	20	
1,1,2,2-Tetrachloroethane	48.1400	5.0	0.70	50.0000	ND	96.3	33 - 136	7.10	20	
1,1,2-Trichloroethane	48.1100	5.0	0.57	50.0000	ND	96.2	46 - 129	1.04	20	
1,1-Dichloroethane	43.5700	5.0	0.63	50.0000	ND	87.1	43 - 134	3.36	20	
1,1-Dichloroethene	47.5700	5.0	2.9	50.0000	ND	95.1	29 - 152	4.14	20	
1,1-Dichloropropene	43.7900	5.0	0.26	50.0000	ND	87.6	44 - 138	5.03	20	
1,2,3-Trichloropropane	47.3100	5.0	0.72	50.0000	ND	94.6	41 - 135	3.37	20	
1,2,3-Trichlorobenzene	45.6900	5.0	0.57	50.0000	ND	91.4	0 - 156	6.66	20	
1,2,4-Trichlorobenzene	42.3300	5.0	0.61	50.0000	ND	84.7	0 - 161	8.05	20	
1,2,4-Trimethylbenzene	46.8400	5.0	1.0	50.0000	ND	93.7	31 - 136	5.60	20	
1,2-Dibromo-3-chloropropane	48.9800	10	1.2	50.0000	ND	98.0	26 - 159	7.24	20	
1,2-Dibromoethane	47.8100	5.0	0.28	50.0000	ND	95.6	44 - 129	2.85	20	
1,2-Dichlorobenzene	46.9100	5.0	0.45	50.0000	ND	93.8	24 - 138	2.63	20	
1,2-Dichloroethane	48.9400	5.0	0.88	50.0000	ND	97.9	39 - 132	1.11	20	
1,2-Dichloropropane	41.6200	5.0	0.67	50.0000	ND	83.2	45 - 129	4.83	20	
1,3,5-Trimethylbenzene	47.2600	5.0	0.35	50.0000	ND	94.5	31 - 135	4.00	20	
1,3-Dichlorobenzene	44.4300	5.0	0.41	50.0000	ND	88.9	26 - 134	5.45	20	
1,3-Dichloropropane	45.5000	5.0	0.49	50.0000	ND	91.0	49 - 127	3.03	20	
1,4-Dichlorobenzene	45.0200	5.0	0.39	50.0000	ND	90.0	25 - 133	6.18	20	

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B0F0022 - MSVOA_S (continued)										
Matrix Spike Dup (B0F0022-MSD1) - Continued			**Source: 2001310-01**		Prepared: 6/1/2020 Analyzed: 6/1/2020					
2,2-Dichloropropane	44.2800	5.0	0.61	50.0000	ND	88.6	37 - 139	10.0	20	
2-Chlorotoluene	44.7000	5.0	0.26	50.0000	ND	89.4	33 - 129	3.02	20	
4-Chlorotoluene	45.9000	5.0	0.20	50.0000	ND	91.8	32 - 129	2.69	20	
4-Isopropyltoluene	46.8800	5.0	0.28	50.0000	ND	93.8	23 - 145	3.09	20	
Benzene	43.2600	5.0	0.37	50.0000	ND	86.5	46 - 126	2.83	20	
Bromobenzene	46.0300	5.0	0.44	50.0000	ND	92.1	34 - 126	2.57	20	
Bromochloromethane	47.3800	5.0	0.99	50.0000	ND	94.8	46 - 125	7.26	20	
Bromodichloromethane	45.6700	5.0	0.58	50.0000	ND	91.3	44 - 125	4.20	20	
Bromoform	47.3700	5.0	0.37	50.0000	ND	94.7	35 - 136	8.78	20	
Bromomethane	52.8500	5.0	4.7	50.0000	ND	106	20 - 166	15.9	20	
Carbon disulfide	48.5100	5.0	3.2	50.0000	ND	97.0	24 - 147	6.41	20	
Carbon tetrachloride	45.0600	5.0	0.65	50.0000	ND	90.1	38 - 141	1.54	20	
Chlorobenzene	45.3200	5.0	0.29	50.0000	ND	90.6	41 - 127	5.26	20	
Chloroethane	48.7600	5.0	4.0	50.0000	ND	97.5	28 - 163	1.59	20	
Chloroform	45.2800	5.0	0.75	50.0000	ND	90.6	45 - 128	7.67	20	
Chloromethane	41.0500	5.0	0.98	50.0000	ND	82.1	24 - 149	6.30	20	
cis-1,2-Dichloroethene	45.5100	5.0	0.82	50.0000	ND	91.0	44 - 129	3.39	20	
cis-1,3-Dichloropropene	44.7200	5.0	0.22	50.0000	ND	89.4	44 - 146	6.09	20	
Di-isopropyl ether	42.9800	5.0	0.55	50.0000	ND	86.0	41 - 134	4.10	20	
Dibromochloromethane	46.9100	5.0	0.20	50.0000	ND	93.8	44 - 127	4.72	20	
Dibromomethane	45.9500	5.0	0.56	50.0000	ND	91.9	47 - 124	5.83	20	
Dichlorodifluoromethane	50.0500	5.0	2.6	50.0000	ND	100	4 - 161	5.65	20	
Ethyl Acetate	327.630	50	10	500.000	ND	65.5	0 - 153	4.61	20	
Ethyl Ether	466.990	50	20	500.000	ND	93.4	18 - 167	2.88	20	
Ethyl tert-butyl ether	44.5400	5.0	0.32	50.0000	ND	89.1	23 - 162	5.01	20	
Ethylbenzene	43.8400	5.0	0.26	50.0000	ND	87.7	38 - 132	3.89	20	
Freon-113	45.4200	5.0	3.7	50.0000	ND	90.8	25 - 157	5.44	20	
Hexachlorobutadiene	40.9900	5.0	0.40	50.0000	ND	82.0	0 - 162	9.17	20	
Isopropylbenzene	45.7200	5.0	0.32	50.0000	ND	91.4	36 - 142	1.95	20	
m,p-Xylene	93.8600	10	0.86	100.000	ND	93.9	38 - 135	4.91	20	
Methylene chloride	43.1100	5.0	3.4	50.0000	ND	86.2	37 - 137	9.02	20	
MTBE	48.8500	5.0	1.3	50.0000	ND	97.7	32 - 147	3.74	20	
n-Butylbenzene	43.1200	5.0	0.42	50.0000	ND	86.2	19 - 149	7.65	20	
n-Propylbenzene	45.3800	5.0	0.25	50.0000	ND	90.8	29 - 138	1.62	20	
Naphthalene	46.3800	5.0	0.50	50.0000	4.24000	84.3	1 - 162	5.96	20	
o-Xylene	45.1600	5.0	0.46	50.0000	ND	90.3	38 - 133	4.35	20	
sec-Butylbenzene	45.5200	5.0	0.36	50.0000	ND	91.0	25 - 142	4.26	20	
Styrene	52.3900	5.0	0.38	50.0000	ND	105	35 - 136	5.31	20	
tert-Amyl methyl ether	46.5200	5.0	0.43	50.0000	ND	93.0	29 - 147	3.03	20	
tert-Butanol	280.540	100	7.4	250.000	ND	112	0 - 196	1.57	20	

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San Bernardino , CA 92408	Reported : 06/04/2020

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B0F0022 - MSVOA_S (continued)										
Matrix Spike Dup (B0F0022-MSD1) - Continued			**Source: 2001310-01**		Prepared: 6/1/2020 Analyzed: 6/1/2020					
tert-Butylbenzene	46.9400	5.0	0.33	50.0000	ND	93.9	29 - 140	2.09	20	
Tetrachloroethene	42.4100	5.0	0.31	50.0000	ND	84.8	36 - 135	1.38	20	
Toluene	46.2700	5.0	0.47	50.0000	ND	92.5	45 - 127	2.83	20	
trans-1,2-Dichloroethene	45.7700	5.0	1.4	50.0000	ND	91.5	39 - 135	2.08	20	
trans-1,3-Dichloropropene	49.9600	5.0	0.48	50.0000	ND	99.9	40 - 132	7.79	20	
Trichloroethene	45.1200	5.0	0.64	50.0000	ND	90.2	32 - 149	5.20	20	
Trichlorofluoromethane	42.4800	5.0	0.79	50.0000	ND	85.0	24 - 156	5.74	20	
Vinyl acetate	194.910	50	9.0	500.000	ND	39.0	0 - 165	6.26	20	
Vinyl chloride	44.2600	5.0	0.74	50.0000	ND	88.5	32 - 144	8.94	20	
Surrogate: 1,2-Dichloroethane-d4	*50.90*			*50.0000*		*102*	*58 - 160*			
Surrogate: 4-Bromofluorobenzene	*51.17*			*50.0000*		*102*	*72 - 121*			
Surrogate: Dibromofluoromethan	*53.57*			*50.0000*		*107*	*75 - 139*			
Surrogate: Toluene-d8	*52.27*			*50.0000*		*105*	*84 - 115*			

Certificate of Analysis

Stantec	Project Number : 185804366
735 E. Carnegie Drive, Suite 280	Report To : Dion Monge
San Bernardino , CA 92408	Reported : 06/04/2020

Notes and Definitions

M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. 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)

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.

Stantec

CHAIN OF CUSTODY FORM 2001292

735 E. Carnegie Drive, Suite 280
San Bernardino, CA 92408
(909)335-6116, Fax (909) 335-6120

Client Name/Address:
Stantec
735 E. Carnegie Drive, Suite 280
San Bernardino, CA 92408

Project/PO Number: 185804366

Laboratory: ATL

Project Manager: Dion Monge
Email Address: Dion.Monge@Stantec.com

Phone Number: 909-335-6116

Fax Number: 909-335-6120

Sampler: J. Sargent Joshua.Sargent@Stantec.com

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	TPH (gas) (8015)	VOC Full 8260	Lead, Copper, Nickel 6010	Special Instructions
01 B1-1	Soil	8oz	1	5.28.2020	1005	ICE			X	
02 B2-1					1010				X	
03 B3-1					1015				X	
04 B4-1					1020				X	
05 B5-1					1025				X	
06 B6-1					1030			X	X	
07 B7-1					1035				X	
08 B8-1					1040				X	

Relinquished By: Date/Time: 5-28-2020 1030 Received By: Date/Time: 5/28/20 1030

Relinquished By: Date/Time: 5/28/20 1133 Received By: Date/Time: 5.28.2020 1133

Relinquished By: Date/Time: Received in Lab By: Date/Time:

Turn-Around Time: Same day 72 hours; 24 hour 5 days; 48 hour normal

Sample Integrity: (Check) intact ____ on ice ____

34 ice

Note: By relinquishing samples, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.