Air Force Materiel Command
412 Civil Engineer Group
Environmental Management Division
Edwards Air Force Base, California

ENVIRONMENTAL ASSESSMENT FOR PROPOSED TRANSMISSION LINE EASEMENT AT EDWARDS AIR FORCE BASE, CALIFORNIA

Final

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1.0 INTRODUCTION

This environmental assessment (EA) evaluates the potential environmental impacts associated with the construction and operation of a proposed electrical transmission line on Edwards Air Force Base (AFB), California (Proposed Action). The transmission line would be used for electric transmission from the Aratina Solar Project to the Kramer Substation. The Aratina Solar Project is located on private lands immediately north of Edwards AFB. The analysis provided in this EA is intended to identify potential environmental impacts associated with the development of the proposed transmission line and facilitate decision-making on proposed alternatives. The analysis in this EA is tiered, where appropriate, from the *Environmental Assessment for Proposed Utility Corridors Edwards Air Force Base, California* (Air Force 2016) (Utility Corridor EA). This approach is consistent with the Council on Environmental Quality (CEQ) Regulation 40 Code of Federal Regulations (CFR) Part 1501.11, which encourages use of tiering from the National Environmental Policy Act (NEPA) analyses of broad scope to those of narrower scope, including for EAs, to eliminate repetitive discussions of the same issues.

This EA was prepared in accordance with all applicable federal, state, and local laws and regulations including NEPA, as amended (42 United States Code [USC] 4321 *et seq*.); the CEQ Regulations for Implementing the Procedural Provisions of NEPA (40 CFR Parts 1500-1508); the Environmental Impact Analysis Process (EIAP), as codified in 32 CFR Part 989; and the Interim Policy on Update of CEQ Regulations Implementing the Procedural Provisions of NEPA (Department of the Air Force 2021).

1.1 PURPOSE AND NEED FOR PROPOSED ACTION

1.1.1 Purpose

The purpose of the Proposed Action is to support the public interest by granting an easement for a portion of Air Force land and BLM withdrawn land to convey energy produced at the Aratina Solar Project to the statewide electrical grid. The Proposed Action would allow construction of a transmission line to connect the Aratina Solar Project to the existing Southern California Edison (SCE) Kramer Substation to the east, located at the southwest corner of State Route (SR) 58 and SR 395. The Air Force is considering the Applicant's (64NB 8me LLC) application for an outgrant that would provide a 100-foot-wide easement to construct, operate, and maintain an approximately 6.5-mile-long transmission line connecting on the west within the proposed Aratina Solar Project and on the east at the Kramer Substation. The transmission line project is proposed to be located within Utility Corridor No. 5 and adjacent to an existing Southern California Edison transmission line. If the Air Force decides to grant an easement to the Applicant for the Proposed Action, the terms of that grant of easement would provide for the Applicant to pay the Air Force fair market value rent for use of the property.

1.1.2 Need

The Air Force need for the Proposed Action is to support the public interest by granting an easement for approximately 6.5 miles of Utility Corridor 5 to the Applicant for conveyance of renewable energy to the Southern California Edison substation at Kramer Junction while also limiting the area such that it will not impact Edwards AFB mission development and execution. 10 USC 2668 supports use of BLM Withdrawn land for easements as long as that use is not against the public interest. On October 17, 2016 the Air Force signed a Finding of No Significant Impact for the *Environmental Assessment for Proposed Utility Corridors at Edwards Air Force Base, California* (Utility Corridor EA). The Utility Corridor EA was written in order to anticipate future requests from the public or from private enterprise to construct utility lines within the boundaries of Edwards AFB to support off-base utilities. The 412th Test Wing had already been approached multiple times by private entities seeking efficient point to point access through Edwards AFB's 308,000 acre installation in order to connect off-base projects. While seeking to support private industry the 412th Test Wing also needed to ensure these requests from private industry never impacted the true Edwards AFB mission to fly, fight, and win in air, space, and cyberspace. The Utility Corridor EA established corridors through Edwards AFB that could be used for private utilities that would also have no impact on Edwards AFB mission activities. The Proposed Action is within one of those corridors. The addition of a second bulk power level interconnection at the Kramer Substation will also enhance the system reliability of the Southern California Energy regional grid, which provides power to Edwards AFB, and could serve as a connection point for future on-base solar power capability. The Applicant seeks an easement term of 50 years.

1.2 BACKGROUND

The Applicant's request for an outgrant is consistent with the *Utility Corridor Area Development Plan* (ADP) that was adopted by the Air Force in 2016, which identifies specific corridors for the use of external utility companies that would minimize negative impacts on Edwards AFB's mission, infrastructure, and environmental resources. The Proposed Action would be located within the previously adopted Utility Corridor 5 (see Figure 1-2). Utility Corridor 5 crosses a combination of Air Force land and BLM land withdrawn for use by the Air Force and under the control of the Air Force in accordance with Executive Order 8450 (1940). In conjunction with adoption of the ADP, the Air Force completed an EA and issued a Finding of No Significant Impact (FONSI) for the ADP. *The Environmental Assessment for Proposed Utility Corridors at Edwards Air Force Base, California* (herein Utility Corridor EA) addressed a total of eight alternatives (including the No Action Alternative), identifying and analyzing, at a programmatic level, nine utility corridors within the base. As described in the Utility Corridor EA (Utility Corridor EA Section 2.7), Utility Corridor 5 begins at the northern boundary of the installation, parallels SR 58, and terminates at Kramer Junction along the north eastern corner. It is approximately 30 miles long and 1,000 feet wide (approximately 3,636 acres). The Applicant proposes to use 6.5 miles of the 30 mile corridor for the Proposed Action.

The Utility Corridor EA assessed air quality and greenhouse gases (GHG), cultural and paleontological resources, geology and soils, hazardous materials and hazardous waste, infrastructure, land use, natural resources, noise, socioeconomics, and water resources. The analysis was qualitative in nature and intended to identify potential environmental impacts associated with developing utilities in the proposed corridor areas and facilitate decision-making on whether these areas were logical alternatives for utility corridors. The Utility Corridor EA acknowledged that specific development in any of the corridors would require further, detailed environmental review and documentation specific to the type and location of utility lines proposed. This EA provides that project-specific analysis for the Proposed Action.

The Aratina Solar Project is a separate project proposed by the Applicant to develop a photovoltaic solar facility and associated infrastructure necessary to generate up to 530 megawatt-alternating current of renewable energy, including up to 600 megawatts of energy storage, on approximately 2,317 acres of privately owned land. This project was approved by the Kern County Board of Supervisors on October 12, 2021, and the County has completed its environmental review under California state law. The Aratina Solar Project does not require any federal agency approvals and will not receive federal funding. The proposed transmission line would connect the Aratina Solar Project to the existing SCE Kramer Substation to the east. Alternatively, the Aratina Solar Project may be connected to the SCE Holgate Substation to the north by a transmission line located on nonfederal land. These two potential alternatives are discussed in Sections 2.3 and 2.4.

1.3 LOCATION OF PROPOSED ACTION

The Proposed Action would occur within the northeastern portion of Edwards AFB. Figure 1-1 depicts Edwards AFB boundaries in a regional context.

The Proposed Action is located within the easternmost extent of Utility Corridor 5. Figure 1-2 depicts the location of the Proposed Action in the context of Utility Corridor 5. Figure 1-2 also depicts the location of Utility Corridor 5 in the context of the installation and the seven other utility corridors within Edwards AFB.

Figure 1-3 provides an overview of the proposed transmission line alignment. As shown, the westward limit of the transmission line begins outside the Edwards AFB boundaries, within private lands that are part of the proposed Aratina Solar Project. The point of connection would be within the substation area of the Aratina Solar Project. The transmission line would then travel east and connect into the existing SCE Kramer Substation. The total length of the transmission line is approximately 6.5 miles and would be located entirely on Edwards AFB.

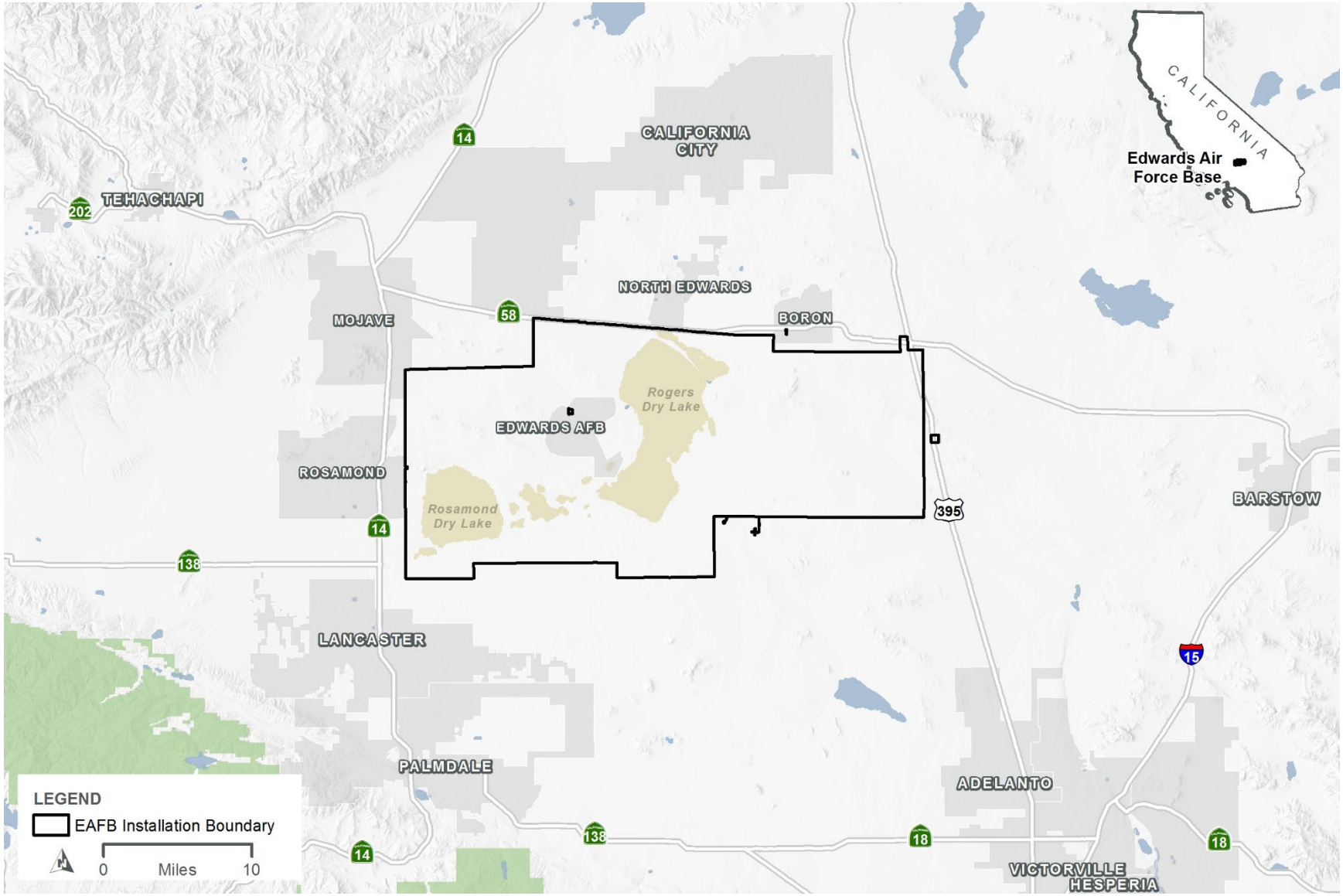


Figure 1-1. Regional Location

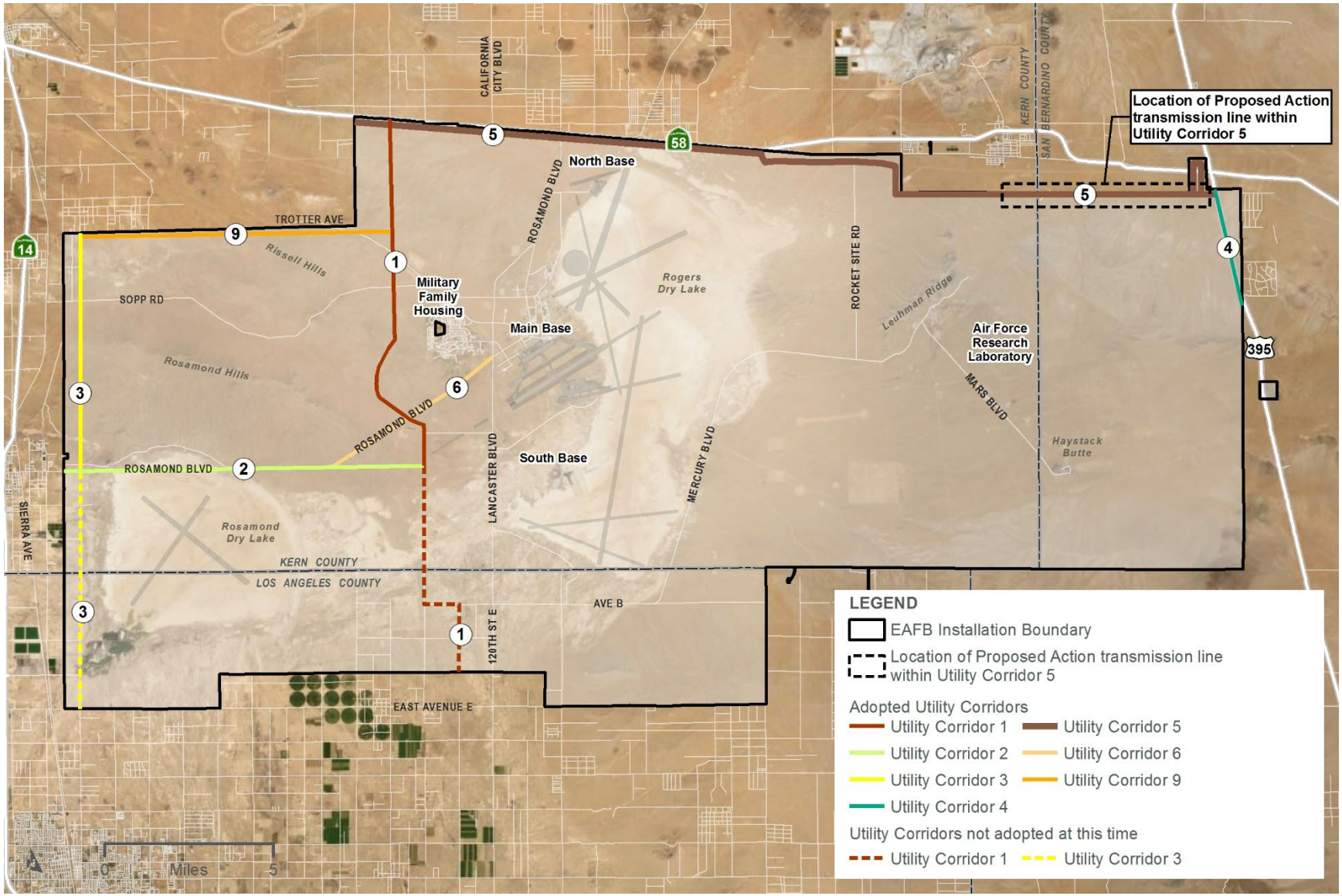


Figure 1-2. Adopted Utility Corridors

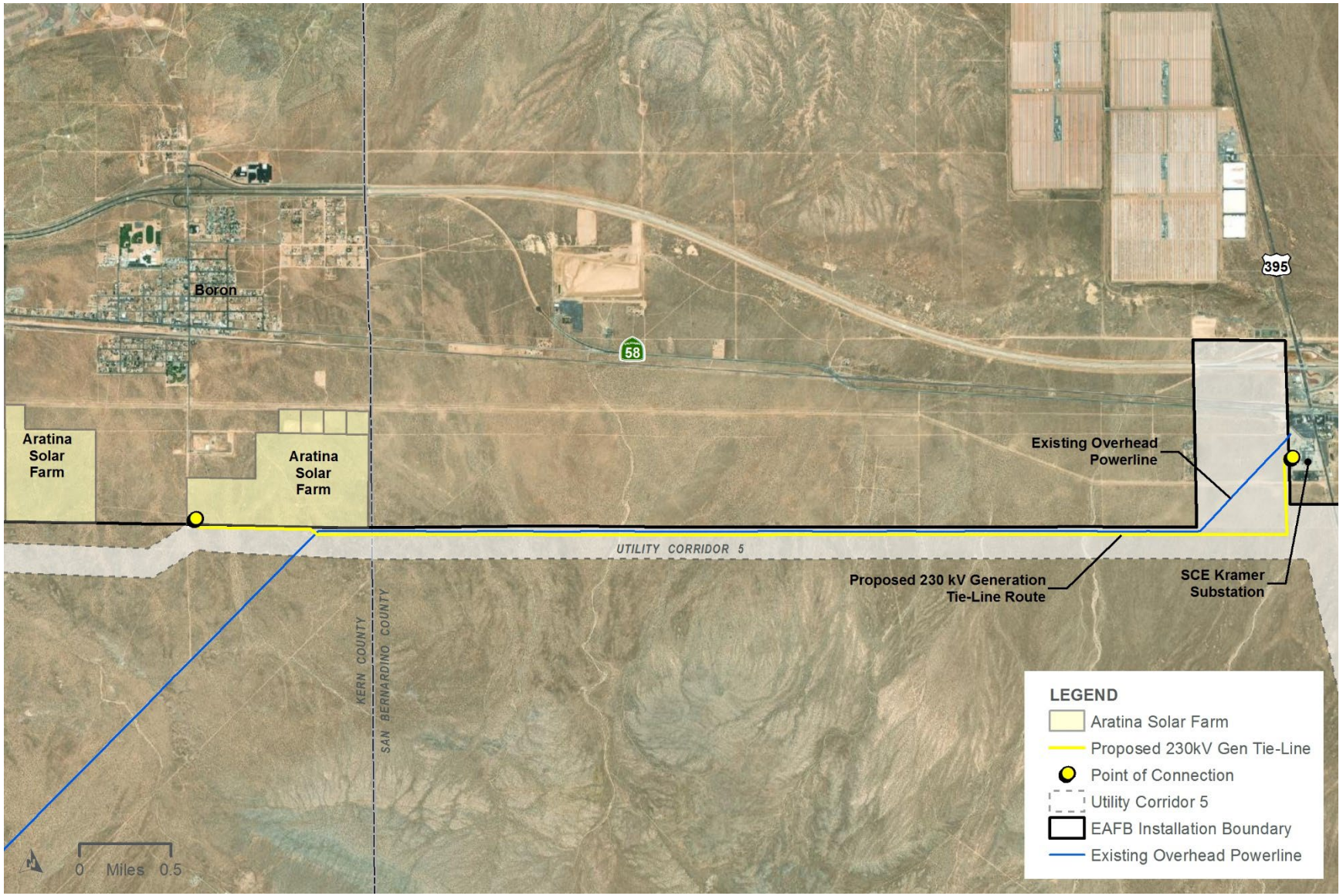


Figure 1-3. Proposed Action Overview

1.4 INTERAGENCY AND INTERGOVERNMENTAL COORDINATION AND CONSULTATIONS

Interagency and intergovernmental coordination is an integral part of EA preparation. As part of early coordination and consultations, Edwards AFB notified and consulted with relevant federal and state agencies on the Proposed Action and alternatives to identify potential environmental issues and regulatory requirements associated with implementation of the Proposed Action. The following discussions summarize the agency coordination and consultations. Copies of agency consultation documents are provided in Appendix G.

1.4.1 United States Fish and Wildlife Services Consultation Under Section 7 of the Endangered Species Act

The *Biological Opinion for Operations and Activities at Edwards Air Force Base, California (8-8-14-F-14)* (USFWS 2014) covers potential impacts on desert tortoise and desert tortoise critical habitat associated with utility construction and maintenance activities within Edwards AFB. Pursuant to the biological opinion, the Air Force has determined the Proposed Action is not likely to adversely affect the desert tortoise or its critical habitat. The Air Force maintains an appropriate record supporting this determination. Eight-five percent of the Proposed Action area would be located in desert tortoise critical habitat but such habitat is degraded and disturbed because it has been affected by previous activities, including the construction, operation, and maintenance of the existing Southern California Edison transmission line that the Proposed Action would be built alongside. The Proposed Action project area is mostly within an established utility corridor. Roads along and above utility corridors are occasionally used for maintenance. The Air Force participates in ongoing re-vegetation efforts which aide in reducing impacts from the establishment of utility corridors. Minimization measures for these areas state: "Lands above underground utilities will be re-vegetated unless a road needs to be constructed and maintained for access and maintenance activities" and "Roads needed for utility maintenance will be concentrated in previously established corridors when possible." No desert tortoise signs were detected during the field survey for the Proposed Action, as described in Append F, Wildlife Survey Technical Report. The primary constituent elements of desert tortoise critical habitat would not be affected by the Proposed Action, in accordance with the biological opinion.

Additionally, the project Applicant has corresponded with the United States Fish and Wildlife Service (USFWS), Palm Springs Fish and Wildlife Office, on September 10, 2020, regarding the Proposed Action. In its response (October 9, 2020), USFWS acknowledged that "The U.S. Air Force has consulted with the Service, pursuant to section 7(a)(2) of the Endangered Species Act of 1973, as amended, regarding the management of its lands. If it intends to authorize use of its right-of-way for the generator tie-in line, the Air Force could include it as an activity under its existing biological opinion." Further, USFWS concluded that because the potential route of the generator tie-in line through Edwards AFB would not be the only way to facilitate the construction and operation of the solar facility, the Air Force consultation would not include the solar facility itself. "The development and

operation of the Aratina Solar Project is not reasonably certain to cause the take of desert tortoises. Section 3 of the Endangered Species Act defines take as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. For this reason, the Service does not recommend that 8minute Solar Energy apply for an incidental take permit for the Aratina Solar Project."

1.4.2 Consultations with the California State Historic Preservation Officer

In accordance with Section 106 of the National Historic Preservation Act (NHPA), consultations with the California State Historic Preservation Officer (SHPO), are currently ongoing and led by Edwards AFB. On December 1, 2021, Edwards AFB initiated consultation with the California SHPO on the Area of Potential Effect (APE) and determinations of National Register of Historic Places (NRHP) eligibility of historic and archaeological resources. Edwards AFB made a determination (pursuant to 36 C.F.R. 800.5(b) of "no adverse effect" to historic properties associated with the Proposed Action. The SHPO concurred with this determination on June 14, 2022, and also made the following findings:

- Pursuant to 36 CFR § 800.4(a)(1), SHPO finds the Area of Potential Effect (APE) as defined to be appropriate;
- Pursuant to 36 CFR § 800.4(b)(1), SHPO finds the efforts to identify historic properties within the APE to be reasonable and in good faith;
- Pursuant to 36 CFR § 800.4(c)(2), SHPO concurs with the evaluations of historic significance and determinations of eligibility for listing in the NRHP made;
- SHPO agrees that it is appropriate to treat archaeological site S-008 as eligible for listing in the NRHP for the purposes of this undertaking as it will be completely avoided by all project actions and activities;
- Pursuant to 36 CFR § 800.5(b), SHPO does not object to a finding of no adverse effects to historic properties.

SHPO consultation correspondence is provided in Appendix G.

1.4.3 Consultations with Native American Tribes

Edwards AFB has conducted and will continue to conduct government-to-government consultation with federally recognized Native American Tribes in accordance with Section 106 of the NHPA and implementing regulations at 36 CFR Part 800 and comply with Native American Graves Protection and Repatriation Act (NAGPRA) with regard to the Proposed Action. In accordance with Air Force Manual (AFMAN) 32-7003, consultations have been initiated and are being conducted by the respective installation commanders with support from the installation tribal liaison officer and cultural resource manager.

Edwards AFB has formally initiated consultation on November 22, 2021 with the following:

- Chemehuevi Indian Tribe
- Colorado River Indian Tribes
- Morongo Band of Mission Indians
- Yuhaaviatam of San Manuel Nation (previously known as the San Manuel Band of Mission Indians)
- Tejon Indian Tribe

Consultation letters are provided in Appendix G.

1.5 PUBLIC NOTIFICATION PROCESS

Relevant federal and state resource agencies and Native American tribes were sent notifications on the development of the proposed transmission line.

This EA was made available for a 30-day public review period from January 6, 2022 through February 7, 2022. No public comments were received on the public review Draft EA.

2.0 DESCRIPTION OF THE PROPOSED ACTION AND ALTERNATIVES

This section describes the Proposed Action and the No Action Alternative. The potential environmental impacts for each alternative are summarized in table form at the end of this section.

2.1 CRITERIA FOR SELECTION OF A REASONABLE RANGE OF ALTERNATIVES

The criteria discussed in this section set the minimum requirements that must be met for an alternative to be considered viable. Those alternatives not meeting one or more of the selection criteria have been eliminated from further discussion. Explanation of eliminated alternatives is provided in Section 2.2.

Consistent with the Utility Corridor EA, selection criteria have been separated into two categories: operational criteria that address Air Force operational and mission considerations and technical criteria that address utility purveyor requirements.

2.1.1 Operational Criteria

Operational criteria include the following:

- Locate the Proposed Action within an adopted utility corridor (Corridor 5) on Edwards AFB, which would limit intrusion into the base and within a corridor that has been determined by the Air Force as to not interfere with Air Force operations
- Minimize the number of transmission poles located within the base to not conflict with Air Force operational and mission considerations
- Connect to a 230 kV substation that has capacity and offers additional redundancy to distribute energy produced by the Aratina Solar Project

2.1.2 Technical Criteria

Technical criteria include the following:

- Minimize the length of the transmission line route through a direct route from the Aratina Solar Project to the closest 230 kV substation
- Confine the Proposed Action to an existing utility corridor that is intended to accommodate various infrastructure
- Minimize the number of transmission towers, reducing ancillary support components (wires, access roads, etc.) associated with the transmission line, which means increased reliability/less risk of problems

that would impact energy resiliency benefits to Edwards AFB and the surrounding communities including Boron

- Minimize development and timing costs to increase the potential to offer lower rates to energy users
- Maximize use of existing access/maintenance roads associated with already existing infrastructure and minimize the additional potential impacts associated with a new transmission line

2.2 ALTERNATIVES CONSIDERED BUT DISMISSED FROM FURTHER CONSIDERATION

As described below, other corridors evaluated were not considered reasonable and/or feasible.

2.2.1 Alternative Locations on Edwards Air Force Base

The Proposed Action is located to minimize the distance (and corresponding ground disturbance) between the western and eastern points of connection while being confined to an existing utility corridor intended to accommodate various infrastructure, such as the Proposed Action. Alternative utility corridors were assessed in the Utility Corridor EA (FONSI signed October 17, 2016) but were dismissed from consideration of the Proposed Action for the following reasons:

- **ADP Corridors 1, 2, 3, 4, and 6:** ADP Corridors 1, 2, 3, 4, and 6 would not provide a direct route between the Aratina Solar Project and Kramer Substation. Construction of the Proposed Action within any of these corridors would result in significantly longer, circuitous, and intrusive (into AFB property) transmission lines and a greater area of disturbance than would result with the Proposed Action. Further, development of the Proposed Action within any of these corridors would not avoid or minimize adverse impacts associated with the Proposed Action.
- **Proposed Action within Utility Corridor 5**: Because Utility Corridor 5 provides the most direct route for the Proposed Action, and has previously been designated for utilities, the Proposed Action is proposed to be located within this corridor.

2.2.2 Alternative Locations Outside of Edwards Air Force Base

The Proposed Action would connect to the existing SCE Kramer substation across Edwards Air Force base. As currently configured, the Kramer substation is larger than the Holgate substation, and has additional available capacity. Routes across private land to the Kramer substation were also considered but dismissed from further consideration.

Routing to the Kramer Substation would require a transmission line of approximately 8 to 10 miles through a private lands route and within a county road franchise right-of-way. A private land connection to the Kramer Substation would also require crossing SR 58 two times (as opposed to only one time needed for the Holgate

substation). Further, connection to the Kramer Substation would cross multiple private parcels. Unlike public utilities, the project Applicant does not have the power of eminent domain; therefore, it would not be possible to cross multiple land ownerships if permission is not granted. A transmission line connection to the Kramer Substation outside of Edwards AFB across private land would not provide the shortest route, would not be feasible, and would not meet the purpose and need for the Proposed Action. Routing to the Holgate substation (approximately 1 mile from the proposed solar project), which is located entirely off Edwards AFB and within county road franchise right-of-way, is currently being evaluated by Kern County under the California Environmental Quality Act (CEQA). Therefore, the No Action Alternative evaluates the potential transmission line connection to the Holgate Substation.

2.3 PROPOSED ACTION

The Proposed Action involves the construction and operation of a 230-kilovolt (kV) electrical transmission line. The 230-kV line may be constructed as either a double-circuit or single-circuit line. The following provides the specifications of each structure type under the Proposed Action.

Power generated by the Aratina Solar Project would be delivered from the Aratina Solar Project substation to the existing SCE Kramer Substation via an up to 6.5-mile-long 230-kV electrical transmission line. Within the Edwards AFB boundaries, the proposed 230-kV line would be located entirely within the existing Utility Corridor 5. Figure 1-2 depicts the Proposed Action within the context of Utility Corridor 5. Figure 1-3 provides an overview of the Proposed Action alignment and characteristics. As shown on Figure 1-3, the proposed 230-kV line would be located immediately south of the existing SCE overhead power line and access road that spans east to west along this corridor. This allows for maximum use of existing dirt roads, therefore minimizing new ground disturbance.

Because this solar energy facility will move forward whether the Air Force permits the transmission line to cross Edwards AFB property, the analysis is limited to the impacts associated with construction and operation of the transmission line.

2.3.1 Double-Circuit Transmission Line

Table 2-1 provides a summary of the double-circuit transmission line component of the Proposed Action specifications. Table 2-2 provides a summary of the Proposed Action double-circuit feature specifications. Table 2-3 provides the Proposed Action double-circuit disturbance type (temporary and permanent) specifications. The detailed Proposed Action preliminary plan and profile exhibits for the double-circuit configuration are provided in Appendix A.

Table 2-1.
Double-Circuit Transmission Line Specifications

Electrical Specifications for Double-Circuit 230-kV Line	Description
Nominal voltage	230-kV alternating current
Circuit configuration	Vertical
Ground clearance of conductor	30 feet minimum
Type of pole	• Double-circuit steel mono-pole tangent structure (TU-3-230) • Double-circuit steel mono-pole dead end/angle structure (TD-2-230) • Steel six-pole crossing structure (TH-2-230)
Pole height	• Double-circuit steel mono-pole tangent structure (TU-3-230): up to 125 feet above ground surface • Double-circuit steel mono-pole dead end/angle structure (TD-2-230): up to 115 feet above ground surface • Steel six-pole crossing structure (TH-2-230): up to 60 feet above ground surface
Assumed pole diameter at base	8 feet (7 feet average diameter)
Easement width	100 feet typical
Span length	Typically 500 feet to 700 feet (maximum)

Notes:
kV=kilovolt

Table 2-2.
Double-Circuit Feature Specifications

Proposed Action Feature	Description	Within Edwards AFB Utility Corridor 5
Length of lines	Total length of line including final spans into the Proposed Action and interconnecting substations	6.50 miles
Number of poles	Double-circuit steel mono-pole tangent structure (TU-3-230)	46
	Double-circuit steel mono-pole dead end/angle Structure (TD-2-230)	5
	Steel six-pole crossing structure (th-2-230)	2
	Total	53
Structure erection sites	Typically 150 feet by 50 feet at each structure location	53[a]
Wire pulling and tensioning sites	100 feet wide by 400 feet long, generally extends past each dead-end or angle structure; necessary for conductor stringing equipment and placement of wire reels	6[a]
New construction/maintenance access road (graded for construction and would be used for on-going maintenance during operation)	Typically graded 12 feet wide only where necessary and not maintained after construction is complete; disturbance is assumed permanent to account for future access requirements	1.35 mile
Spur roads from existing access roads (graded for construction and would be used for on-going maintenance during operation)	Typically graded 12 feet wide only where necessary and not maintained after construction is complete; disturbance is assumed permanent to account for future access requirements	0.45 mile

Notes:

[a] In five pole locations, pole construction would occur partially within the area of disturbance associated with the wire pulling and tensioning site (occurs at pole locations 1, 7, 8, 50, and 53).

AFB=Air Force Base

Table 2-3.

Double-Circuit Disturbance Type Specifications

Disturbance Type	Description	Acreage
Temporary disturbance for construction	Structure erection, wire pulling, access roads, trenching, etc.	16.707 acres
Permanent disturbance	Disturbance on ground surface for facilities and roadways	8.992 acres

Double-Circuit Transmission Support Structures

Transmission support structures (towers and poles) would be erected within the easement and be typically spaced 500 feet to 700 feet apart (center to center), depending on the topographic, hydrologic, and geologic conditions of the underlying lands, as well as to avoid sensitive resources if present.

For the Proposed Action, three double-circuit transmission structure types would be erected. Figure 2-1 provides a profile of the double-circuit steel mono-pole tangent structure (TU-3-230). Figure 2-2 provides a profile of the double-circuit steel mono-pole dead end/angle structure (TD-2-230), and Figure 2-3 provides a profile of the steel six pole crossing structure (TH-2-230). Table 2-4 summarizes the number and height of each structure.

Table 2-4.

Summary of Proposed Double-Circuit Transmission Structure Types

Structure Type	Number Proposed	Height
Double-circuit steel mono-pole tangent structure (TU-3-230)	46	Up to 125 feet
Double-circuit steel mono-pole dead end/angle structure (TD-2-230)	5	Up to 115 feet
Steel six-pole crossing structure (TH-2-230)	2	Up to 60 feet

Depending on the type of structure and its location within the corridor, transmission structure heights would generally be up to 125 feet above ground surface. The minimum ground clearance of the conductor cable would be 30 feet. Communications cable or fiber cable would be installed within a trench that runs parallel with the transmission line.

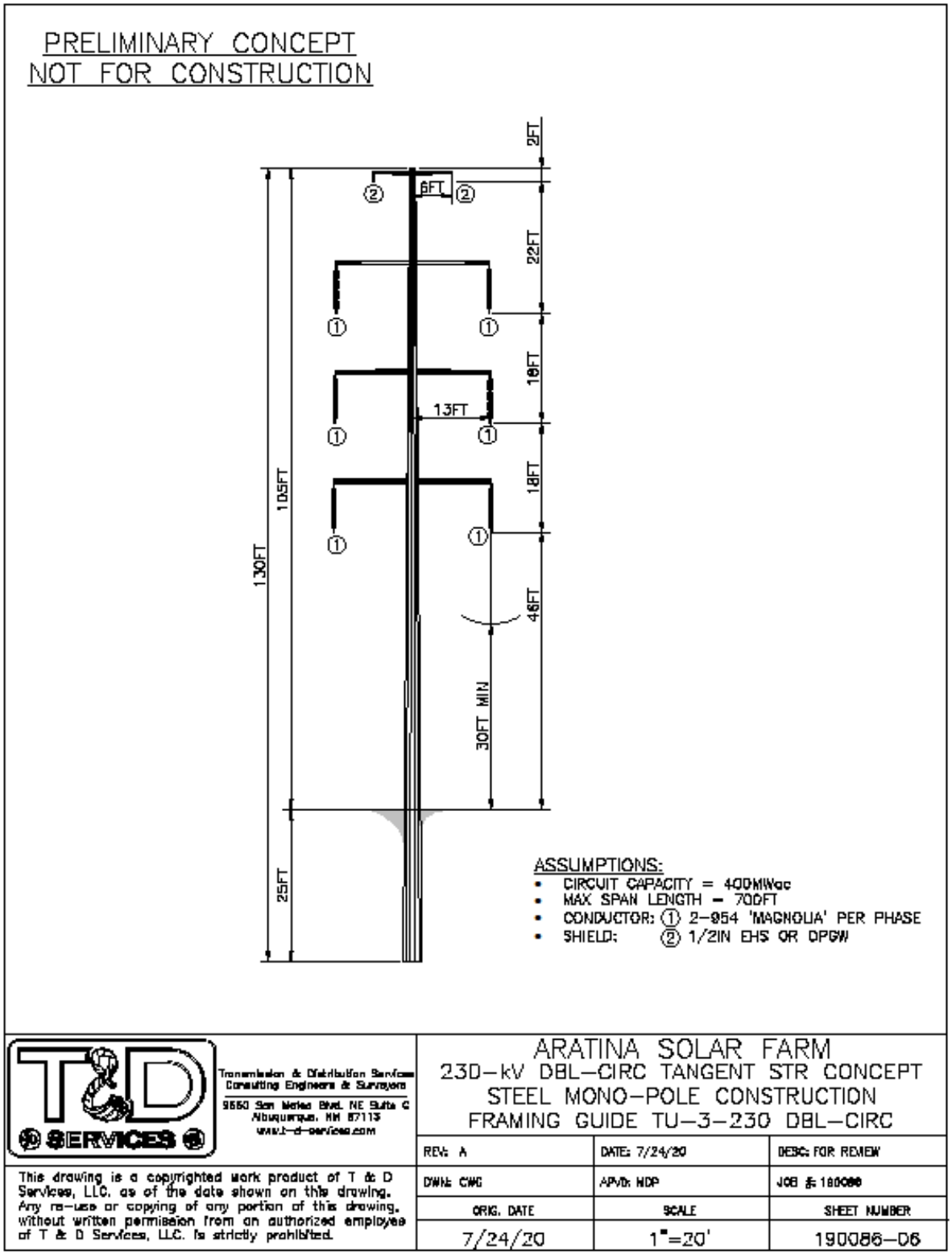
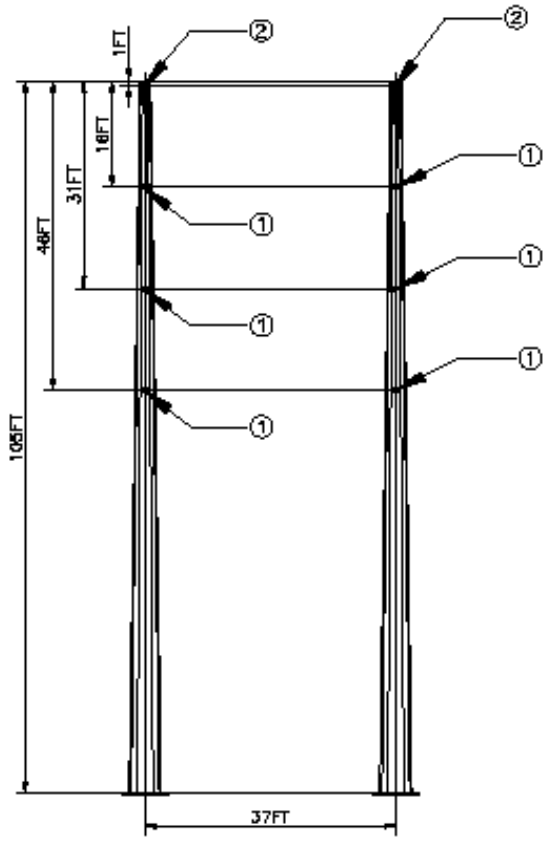


Figure 2-1. Steel Mono-Pole Construction/Tangent Structure (TU-3-230) (Double-Circuit)

PRELIMINARY CONCEPT
NOT FOR CONSTRUCTION



ASSUMPTIONS:
- CIRCUIT CAPACITY = 400MWac
- MAX SPAN LENGTH = 700FT
- CONDUCTOR: ① 2-954 'MAGNOLIA' PER PHASE
- SHIELD: ② 1/2IN EHS OR OPGW

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230-kV DBL-CIRC DEADEND/ANGLE CONCEPT
STEEL MONO-POLE CONSTRUCTION
FRAMING GUIDE TD-2-230 DBL-CIRC

REV: A	DATE: 7/28/20	DESC: FOR REVIEW
DWN: EJR	APVD: MDP	JOB #: 190086
ORIG. DATE	SCALE	SHEET NUMBER
7/28/20	1"=20'	190086-07

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Figure 2-2. Steel Mono-Pole Construction/Dead-End Structure (TD-2-230) (Double-Circuit)

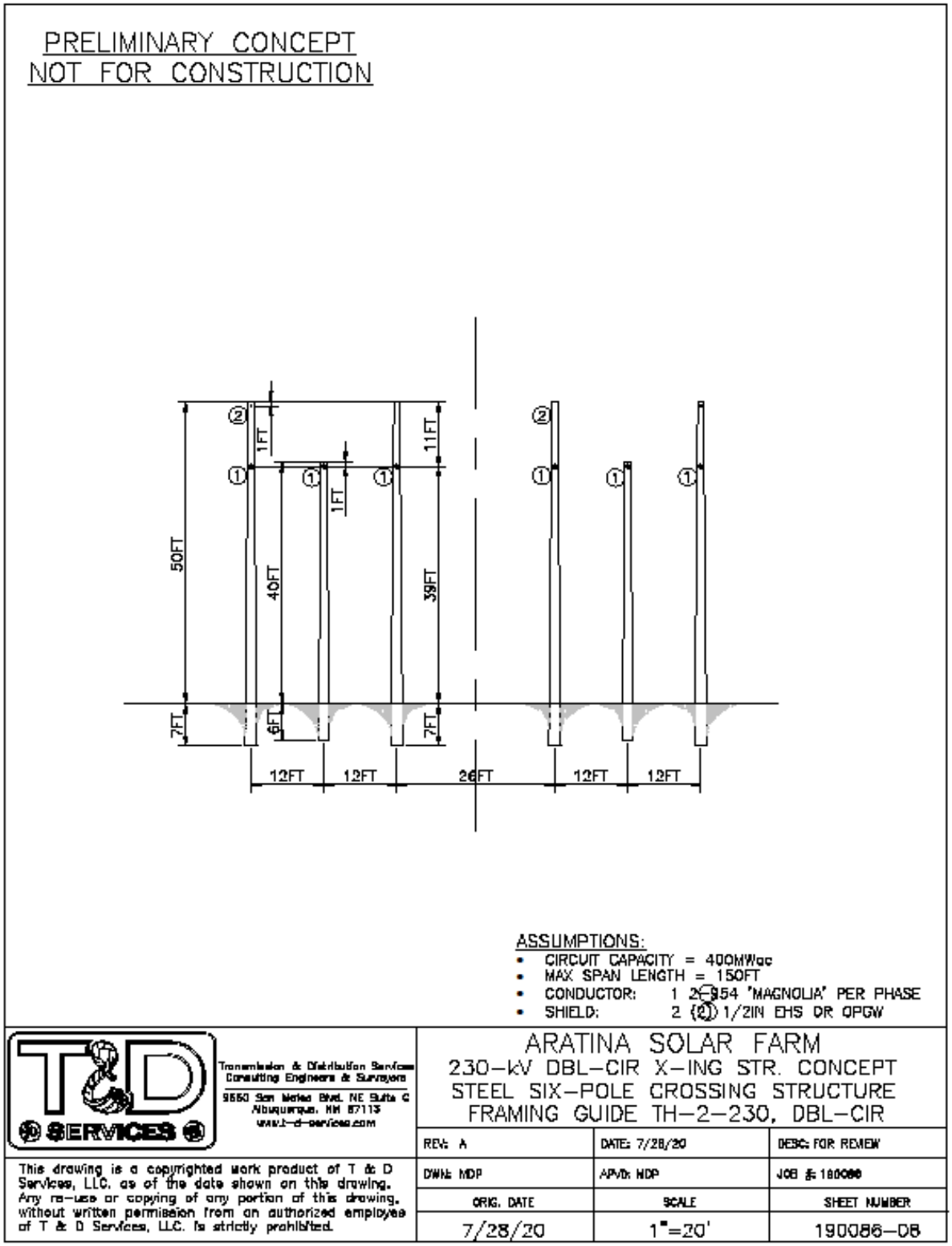


Figure 2-3. Steel Six-Pole Crossing Structure (TH-2-230) (Double-Circuit)

2.3.2 Single-Circuit Transmission Line

Instead of a double-circuit configuration, the Proposed Action may involve the construction and operation of a single-circuit transmission line. The single-circuit configuration would have the same point of connections as the double-circuit configuration and follow the same alignment as the double-circuit configuration.

Table 2-5 provides a summary of the transmission line component of the Proposed Action single-circuit specifications. Table 2-6 provides a summary of the Proposed Action single-circuit feature specifications. Table 2-7 provides the Proposed Action single-circuit disturbance type (temporary and permanent) specifications. The detailed preliminary plan and profile exhibits for the single-circuit configuration are provided in Appendix A.

Table 2-5.
Single-Circuit Transmission Line Specifications

Electrical Specifications for Single-Circuit 230-kV Line	Description
Nominal voltage	230-kV alternating current
Circuit configuration	Vertical
Ground clearance of conductor	30 feet minimum per California General Order 95 at Designed Thermal Limit for Emergency Line Loading Conditions (212 degrees Fahrenheit)
Type of pole	• Single-circuit steel mono-pole tangent structure (TU-1-230) • Single-circuit steel mono-pole dead end/angle structure (TD-1-230) • Steel three-pole crossing structure (TH-233)
Pole height	• Single-circuit steel mono-pole tangent structure (TU-1-230): up to 125 feet above ground surface • Single-circuit steel mono-pole dear end/angle structure (TD-1-230): up to 106 feet above ground surface • Steel three-pole crossing structure (TH-233): up to 50 feet above ground surface
Assumed pole diameter at base	8 feet (7 feet average diameter)
Easement width	100 feet typical
Span length	Typically 500 feet to 700 feet (maximum)

Notes:
kV=kilovolt

Table 2-6.
Single-Circuit Feature Specifications

Proposed Action Feature	Description	Within Edwards AFB Utility Corridor 5
Length of lines	Total length of line including final spans into the Proposed Action and interconnecting substations	6.50 miles
Number of poles	Single-circuit steel mono-pole tangent structure (TU-1-230)	46
	Single-circuit steel mono-pole dead end/angle structure (TD-1-230)	5
	Steel three-pole crossing structure (TH-233)	2
	Total	53
Structure erection sites	Typically 150 feet by 50 feet at each structure location	53[a]
Wire pulling and tensioning sites	100 feet wide by 400 feet long, generally extends past each dead-end or angle structure; necessary for conductor stringing equipment and placement of wire reels	6[a]
New construction/maintenance access road (graded for construction and would be used for on-going maintenance during operation)	Typically graded 12 feet wide only where necessary and not maintained after construction is complete; disturbance is assumed permanent to account for future access requirements For example, future access is needed for periodic maintenance activities; maintenance of a transmission line is a fundamental part of its functioning, a need that is accentuated by its outdoors location, so ongoing checks and inspections are required to assess and repair structure components from corrosive agents, ice, wind and ultraviolet radiation, which damage their structures, components, and parts	1.35 mile
Spur roads from existing access roads (graded for construction and would be used for on-going maintenance during operation)	Typically graded 12 feet wide only where necessary and not maintained after construction is complete; grading prepares an even, stable ground surface to allow the efficient and safe passage of construction equipment; disturbance is assumed permanent to account for future access requirements	0.45 mile

Notes:

[a] In five pole locations, pole construction would occur within partially within the area of disturbance associated with the wire pulling and tensioning site (occurs at pole locations 1, 7, 8, 50, and 53).

AFB=Air Force Base

Table 2-7.

Single-Circuit Disturbance Type Specifications

Disturbance Type	Description	Acreage
Temporary disturbance for construction	Structure erection, wire pulling, access roads, trenching, etc.	16.707 acres
Permanent disturbance	Disturbance on ground surface for facilities and roadways	8.992 acres

2.3.3 Single-Circuit Transmission Support Structures

The single circuit would also potentially utilize three different types of transmission structures as shown in Table 2-8. Figure 2-4 provides a profile of the single-circuit steel mono-pole tangent structure (TU-1-230). Figure 2-5 provides a profile of the single-circuit steel mono-pole dead end/angle structure (TD-1-230), and Figure 2-6 provides a profile of the steel three pole crossing structure (TH-233).

Table 2-8.

Single-Circuit Summary Of Proposed Transmission Structure Types

Structure Type	Number Proposed	Height
Single-circuit steel mono-pole tangent structure (TU-1-230)	46	Up to 125 feet
Single-circuit steel mono-pole dead end/angle structure (TD-1-230)	5	Up to 106 feet
Steel three-pole crossing structure (TH-233)	2	Up to 60 feet

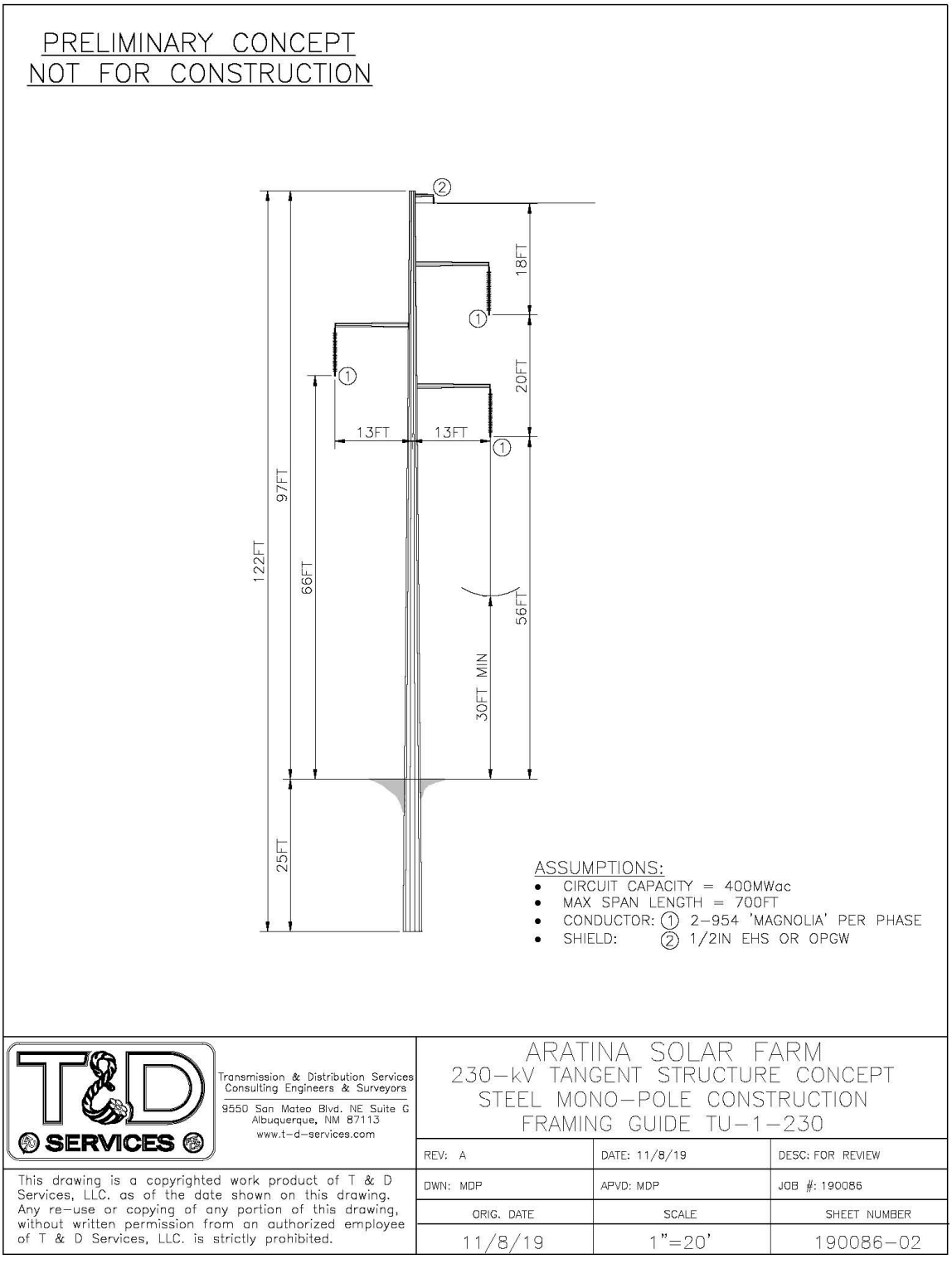
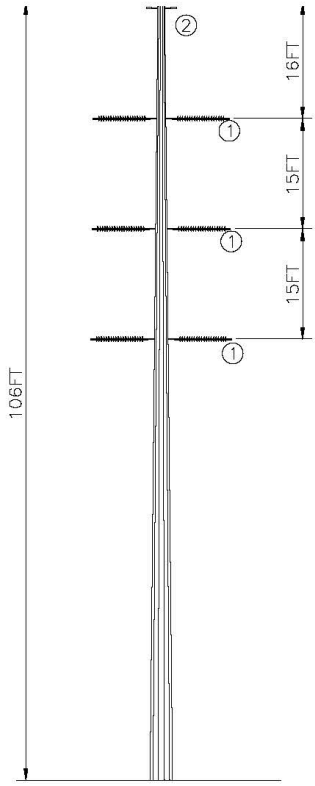


Figure 2-4. Steel Mono-Pole Construction/Tangent Structure (TU-1-230) (Single-Circuit)

PRELIMINARY CONCEPT
NOT FOR CONSTRUCTION



ASSUMPTIONS:
- CIRCUIT CAPACITY = 400MWac
- MAX SPAN LENGTH = 700FT
- CONDUCTOR: ① 2–954 'MAGNOLIA' PER PHASE
- SHIELD: ② 1/2IN EHS OR OPGW

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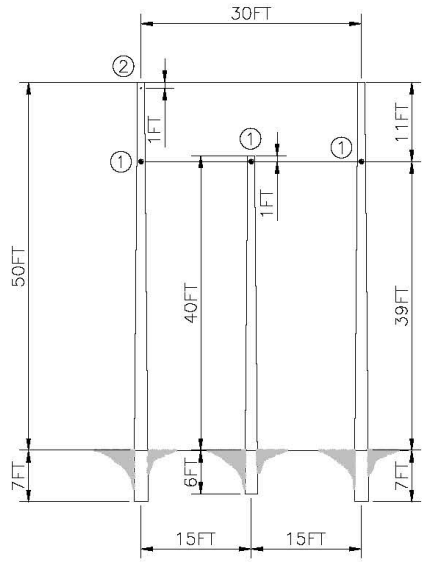
230-kV TANGENT STRUCTURE CONCEPT
STEEL MONO-POLE CONSTRUCTION
FRAMING GUIDE TD-1-230

REV: A	DATE: 11/8/19	DESC: FOR REVIEW
DWN: MDP	APVD: MDP	JOB #: 190086
ORIG. DATE	SCALE	SHEET NUMBER
11/20/19	1"=20'	190086-04

Figure 2-5. Steel Mono-Pole Construction/Tangent Structure (TD-1-230) (Single-Circuit)

PRELIMINARY CONCEPT
NOT FOR CONSTRUCTION



ASSUMPTIONS:
- CIRCUIT CAPACITY = 400MWac
- MAX SPAN LENGTH = 700FT
- (1) CONDUCTOR: 2-954 'MAGNOLIA' PER PHASE
- (2) SHIELD: (2) 1/2IN EHS OR OPGW

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ARATINA SOLAR FARM
230-kV DEAD-END STRUCTURE CONCEPT
STEEL THREE-POLE CROSSING STRUCTURE
FRAMING GUIDE TH-233

REV: A	DATE: 7/10/20	DESC: FOR REVIEW
DWN: MDP	APVD: MDP	JOB #: 190086
ORIG. DATE	SCALE	SHEET NUMBER
7/10/20	1"=20'	190086-05

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Figure 2-6. Steel Three-Pole Crossing Structure (TH-233) (Single-Circuit)

2.3.4 Transmission Line Service Road

The proposed transmission line was designed with an emphasis on providing the smallest ground disturbance footprint within Edwards AFB Utility Corridor 5 and is sited to follow existing roads, where feasible. There are existing dirt roads in the vicinity of the proposed alignment associated with the existing SCE transmission facilities within the corridor. Primary access to work areas would be obtained by use of existing paved and unpaved roads in the area, existing south from points along SR 58. Where feasible, spur roads would be constructed from existing transmission structure footprints to access work areas for new transmission line structures.

2.3.5 Temporary Work Areas

A total of six temporary 1-acre pulling and tensioning sites would be needed to tension the transmission line after it is strung on the transmission structures. The tensioning and pulling sites have been designed to avoid desert washes and dry creeks.

2.3.6 Timing of Activities

Timing of construction would be coordinated with Edwards AFB. Heavy construction is expected to occur between 6:00 a.m. and 5:00 p.m., Monday through Friday. Additional hours may be necessary to make up schedule deficiencies or complete critical construction activities. Some activities may require construction activities 24 hours per day, 7 days per week. Low level noise activities may potentially occur between the hours of 10:00 p.m. and 7:00 a.m. Nighttime activities could potentially include, but are not limited to, refueling equipment, staging material for the following day's construction activities, quality assurance/control, and commissioning.

2.3.7 Access Roads

To construct the Proposed Action, as well as maintain the transmission line, access roads would be required and are proposed to be maintained during project operation. Generally, periodic inspection (3- or 4-year cycle) will identify when access road (including spur roads) restoration would be required.

The Proposed Action is designed to follow existing roads, where possible, to minimize the ground disturbance footprint within Utility Corridor 5. Specifically, there is an existing dirt road located immediately north of, and parallel to, the proposed transmission line alignment for the majority of the alignment (extending the length of the Proposed Action between transmission tower 6 through 46). New construction access roads would be graded at the westward and eastward portions of the transmission line, with new construction access extending from transmission tower 1 to 6 and then from transmission tower 46 to 53. These new access roads would typically be graded at a width of 12 feet. If necessary, the new roads would be compacted to ensure stability.

Spur roads would be required along the length of the transmission line route that would extend off (to the south) of the existing access road to access the construction sites for transmission towers 6 through 46. These spur roads would typically be graded at a width of 12 feet. If necessary, the new roads would be compacted to ensure stability.

Temporary access roads parallel to the transmission line alignment and spur roads specifically needed for the construction of the transmission line would be restored, as they would not be needed and/or no longer used after construction of the Proposed Action. These are distinguishable from the shared service roads that would be utilized for periodic maintenance activities discussed below. Appendix A and Appendix B provide the detailed plan and profile set for the Proposed Action. These exhibits depict the existing and proposed access roads that would be utilized by the Proposed Action.

2.3.8 Transmission Structure Erection Sites

Temporary transmission structure erection sites would be required at each transmission structure location. The transmission structure erection sites would typically encompass a maximum area approximately 150 feet long by 50 feet wide. These areas would be cleared of vegetation. The tangent transmission structures would be set in an augured hole, typically ranging between 6 to 10 feet in diameter and 15 to 25 feet in depth below the ground surface. The dead-end structures would be set in concrete pier foundations.

The annular space between the poles and holes would be backfilled with concrete or soil. Excavated soil material would be spread around the temporary work areas.

2.3.9 Conductor Pulling and Tension Sites

A total of six pulling and tensions sites would be required to install the conductors on the transmission structures. Pulling and tension sites would encompass an area approximately 400 feet long by 100 feet wide. These sites would be located within and adjacent to the transmission line service road.

2.3.10 Water Use

Water would be used for dust suppression and soil compaction during construction. Water would be obtained from an off-site water purveyor and trucked to the site. The most likely water purveyor would be either Boron Community Service District [CSD] or the Desert Lake CSD.

2.3.11 Industrial Wastes and Toxic Substances

The transmission line would have minimal levels of materials that have been defined as hazardous under 40 CFR Part 261. Hazardous materials spill kits would be carried in vehicles for any small spills that could occur. Hazardous materials would not be disposed of on site or released onto the ground, underlying groundwater, or any surface water. Fully enclosed containment would be provided for all refuse. All construction waste, including

trash, solid waste, petroleum products, and other hazardous materials, would be disposed of at a properly licensed waste disposal facility.

2.3.12 Transmission Line Construction Equipment and Construction Workforce

Construction of the proposed transmission line would involve the use of a variety of construction equipment and varying workforce to construct access/spur roads, foundation installation, pole erection, and cable pulling. Construction vehicles include bulldozers, graders, drilling rigs, compactors, cranes, and a variety of trucks. Although it is not expected, there is a possibility that a helicopter may be used for a certain part of the construction. Any use of helicopter would be limited and would undergo proper clearance with Edwards AFB. A list if the proposed construction equipment type, quantity and number of personnel associated with operation of each piece of equipment is provided in Appendix A.

2.3.13 Transmission Line Operation

Following construction, activities associated with the transmission line would be restricted to inspection and occasional maintenance and repair. Biannual visual inspections would be conducted by ground crews to inspect insulators, overhead grounds, and transmission structure hardware. Transmission line access roads would not be regularly maintained, but as-needed grading may be conducted to provide access to transmission structures for maintenance activities.

Additional operations and maintenance activities may include insulator washing (as needed), periodic air inspections (as needed), repair or replacement of lines (as needed), replacement of insulators (as needed), painting tower or pole identification markings or corroded areas (as needed), and response to emergency situations (e.g., outages) to restore power (infrequent/as needed).

Routine maintenance work would take place between 7 a.m. and 6 p.m., Monday through Friday. However, emergency situations may require maintenance to be performed 24 hours a day, 7 days a week. Maintenance work would be coordinated with Edwards AFB.

2.3.14 Safety

Safety precautions and emergency systems would be implemented as part of the design and construction of the transmission line to ensure safe and reliable operation. Administrative controls may include classroom and hands-on training in operating and maintenance procedures, general safety items, and a maintenance program plan. These controls would complement transmission line design and monitoring features to enhance safety and reliability.

2.4 NO ACTION ALTERNATIVE

CEQ and Air Force NEPA regulations require inclusion of a No Action Alternative in an EA. The No Action Alternative serves as a baseline against which the impacts of the Proposed Action and Alternatives can be evaluated.

Under the No Action Alternative, the Air Force would not approve an outgrant for an easement and the proposed transmission line would not be constructed within Edwards AFB. Rather, a transmission line would be constructed off base, on privately-owned lands.

If approved by Kern County, the transmission line would extend from the Aratina Solar Project to the existing Holgate Substation located approximately 1 mile northeast of the solar project. More specifically, this transmission line would begin on the portion of the Aratina Solar Project located on private land immediately south of SR 58 in proximity to the existing eastbound rest stop located west of Boron. The transmission line would exit the solar facility on the north or eastern boundary and extend approximately 0.4 mile east, generally parallel (and south) of SR 58. The transmission line would then turn north, crossing SR 58, and extending approximately 1/2-mile then again turning east for approximately .25 mile to connect with the existing Holgate Substation. The Holgate Substation is located approximately 1 mile from the Aratina Solar Project.

As discussed in Section 2.2.2, a private land connection to the Kramer Substation was evaluated and dismissed from further review. Therefore, the No Action Alternative evaluates the potential transmission line connection to the Holgate Substation.

2.5 SUMMARY OF ENVIRONMENTAL IMPACTS

Table 2-9 presents a summary of anticipated environmental impacts for all alternatives.

Table 2-9.

Summary of Environmental Impacts

Resource	Proposed Action (Double Circuit or Single-Circuit Transmission Line)	No Action
Air Quality and GHGs	During construction (site preparation and grading), fugitive dust (PM_{10}) would be generated from site grading and other earth-moving activities. Emissions would be below *de minimis* thresholds and would not be expected to have a significant impact on the environment. Implementation of AIR-1 through AIR-17 would ensure that direct, indirect and cumulative impacts from the Proposed Action would not be significant.	Implementation of the No Action Alternative would likely result in the construction of a transmission line off base within privately owned lands, connecting to the existing Holgate Substation. A similar level of emissions as the Proposed Action associated with the construction of a transmission

Resource	Proposed Action (Double Circuit or Single-Circuit Transmission Line)	No Action
		line connection to the Holgate Substation would be expected.
Cultural and Paleontological Resources	The Proposed Action would potentially impact 15 archaeological sites located within the gen-tie APE, and 60 archaeological sites within the Aratina solar farm APE (which has been included within the Area of Potential Effect for evaluation subject to Section 106 of the NHPA review). Of the 15 archaeological sites located within the gen-tie APE, these sites consist of historic refuse deposits and are considered ineligible for listing on the NRHP and no effect to historic properties would occur. Of the 60 archaeological sites within the Aratina Solar Farm APE, 59 of these sites are considered ineligible for listing on the NRHP. Only one site, newly recorded site S-008 may potentially be eligible for listing in the NRHP under Criteria D but will require testing or additional research to confirm eligibility. Edwards AFB has assumed eligibility of this resource for purpose of this evaluation. Based on the findings of the cultural resources surveys, the archaeological sensitivity of the gen-tie APE is considered low; however, there is always a possibility of encountering unanticipated archaeological resources during ground-disturbing activities. Implementation of CUL-1 through CUL-3 would ensure that direct, indirect and cumulative impacts from the Proposed Action would not be significant. Within the Aratina solar farm APE, site S-008 can be avoided and potential impacts avoided by project specific mitigation measures (MM) 4.5-1 through 4.5-3, as required by the Aratina Solar Project EIR. Additionally, one isolate identified by the Yuhaaviatam of San Manuel Nation as culturally important (ISO-031) will be buried to protect it at the Tribe's request. As a result, there are no adverse effects to historic properties. The geologic deposits underlying the Proposed Action corridor (i.e., Quaternary older alluvium) have a high potential to contain paleontological resources. Implementation of CUL-3 would ensure that direct, indirect and cumulative impacts from the Proposed Action would not be significant.	Implementation of the No Action Alternative would likely result in the construction of the transmission line off base within privately owned lands, connecting to the existing Holgate Substation. Similar to the Proposed Action, no NRHP-eligible cultural resources would be impacted; however, measures for unanticipated discovery of cultural resources and human remains would be required as part of the CEQA process.
Geology and Soils	The soils within the Proposed Action corridor are identified as having a high potential for soil loss due to wind erosion during	Implementation of the No Action Alternative would likely result in

Resource	Proposed Action (Double Circuit or Single-Circuit Transmission Line)	No Action
	construction and very high potential for soil loss due to sheet flow erosion. Implementation of GEO-1, GEO-2, GEO-3, GEO-4, and AIR-12 would ensure that direct, indirect and cumulative impacts from the Proposed Action would not be significant.	the construction of the transmission line off base within privately owned lands, connecting to the existing Holgate Substation. Similar to the Proposed Action, there would be ground disturbance associated with the construction of the transmission line that would result in the potential for soil loss due to wind erosion during construction and very high potential for soil loss due to sheet flow erosion.
Hazardous Materials and Hazardous Waste	Construction would require the use of minor amounts of hazardous materials. Implementation of HAZ-1 would ensure that direct, indirect and cumulative impacts from the Proposed Action impacts would not be significant. There is a potential presence of UXO and/or munitions debris with the Proposed Action corridor. Implementation of HAZ-2 would ensure that the direct, indirect and cumulative impacts from the Proposed Action would not be significant. An underground natural gas pipeline is located with the Proposed Action corridor. Implementation of HAZ-3 would ensure that direct, indirect and cumulative impacts from the Proposed Action would not be significant. One monitoring well is located within the Proposed Action corridor. Implementation of HAZ-4 would ensure that direct, indirect, and cumulative impacts from the Proposed Action would not be significant.	Implementation of the No Action Alternative would avoid potential impacts associated with hazardous materials on Edwards AFB but may occur on private land.
Natural Resources	Impacts could occur on vegetation communities, which include saltbush scrub, playa/claypans, and creosote bush scrub. Special-status wildlife species with the potential to be impacted by the Proposed Action include desert tortoise and burrowing owl. Implementation of NAT-1 through NAT-18 would ensure that direct, indirect and cumulative impacts from the Proposed Action would not be significant	Biological resources located within the transmission line corridor traversing private lands is similar to those associated with the Proposed Action. Measures to minimize impacts on natural resources may be required to minimize impacts as part of approval by Kern County.

Resource	Proposed Action (Double Circuit or Single-Circuit Transmission Line)	No Action
Water Resources	Construction of the Proposed Action has the potential for increasing sediment due to stormwater movement of disturbed sediments within the construction area. Compliance with the SWPPP will ensure that direct, indirect and cumulative impacts would not be significant.	Similar to the Proposed Action, construction of a transmission line on private lands under the No Action Alternative would result in the potential for increasing sediment due to stormwater movement of disturbed sediments within the construction area.

Notes:
AFB=Air Force Base; APE=Area of Potential Effect; CEQA=California Environmental Quality Act; GHG=greenhouse gas; NRHP=National Register of Historic Places; PM_{10}=particulate matter less than 10 microns in diameter; UXO=unexploded ordinance

2.6 ISSUES TO BE ADDRESSED

The following issues and concerns are identified as requiring analysis in this EA as it relates to the currently Proposed Action.

Air Quality and GHGs. The Proposed Action would involve construction activities that would generate temporary, minor air pollutant emissions (primarily dust). Additional emissions, although periodic, would be associated with project operation (maintenance activities).

Cultural and Paleontological Resources. All cultural resources located within the gen-tie APE are identified as ineligible for listing on the NRHP. One cultural resource identified in the Aratina Solar Project APE (which is included within the Area of Potential Effects for evaluation under Section 106 of the NHPA) is potentially eligible for the NRHP under Criteria D, and has been assumed eligible for purposes of this analysis. There is also the potential for inadvertent discovery of cultural and paleontological resources and/or buried remains during construction. Consultation with California SHPO is required.

Geology and Soils. Construction of the Proposed Action has the potential to involve ground-disturbing activities, such as grading for new access roads that may create soil erosion.

Hazardous Materials and Hazardous Waste. The generation, use, handling, transportation, and disposal of hazardous materials and hazardous waste may occur as a result of construction activities.

Natural Resources. Potential impacts on natural habitat may result during construction and operation of the proposed transmission line. Edwards AFB has previously consulted with USFWS regarding utility construction and maintenance activities within the base. The *Biological Opinion for Operations and Activities at Edwards Air Force Base, California (8-8-14-F-14)* (USFWS 2014) covers utility construction and maintenance activities.

Water Resources. Water may be required during construction for dust suppression. Water would be obtained from an off-site water purveyor and trucked to the site. The most likely water purveyor would be either Boron CSD or the Desert Lake CSD. Also, several drainages traverse the Proposed Action corridor.

2.7 ISSUES PREVIOUSLY ANALYZED IN PROGRAMMATIC ENVIRONMENTAL ASSESSMENT THAT DO NOT WARRANT FURTHER ANALYSIS

The following issues have already been analyzed under the Utility Corridor EA and do not warrant further analysis in this project-specific EA for the Proposed Action for the reasons described below. Consequently, they will not be addressed in Sections 3.0 and 4.0 of this EA.

Airspace. The Proposed Action is located within Utility Corridor 5. The Utility Corridor EA concluded that proposed utility corridor projects would not have any impact on the management or use of the airspace at Edwards AFB (Utility Corridor EA Section 1.5). The Proposed Action will involve the construction of transmission lowers up to, but would not exceed, 125 feet in height.

Public Safety/Emergency Services. The Utility Corridor EA concluded that construction of utilities within the corridors should not affect overall public safety at the base, nor affect emergency services at the base (Utility Corridor EA Section 1.5). Safety precautions and emergency systems would be implemented as part of the design and construction of the transmission line to ensure safe and reliable operation. Administrative controls may include classroom and hands-on training in operating and maintenance procedures, general safety items, and a maintenance program plan. These controls would complement transmission line design and monitoring features to enhance safety and reliability.

Environmental Justice and Protection of Children. Executive Orders (EO) on Environmental Justice and the Protection of Children require federal agencies to identify and address disproportionately high adverse effects of their activities on minority and low-income populations and children. The Utility Corridor EA concluded that given that the utility corridor construction activities would occur entirely on Edwards AFB, the Air Force has determined that this action would have no substantial, disproportionate impacts on minority and low-income populations and/or children (Utility Corridor EA Section 1.5).

Infrastructure. The Utility Corridor EA concluded that potential impacts on existing utilities may occur as a result of ground-disturbing activities. However, the Utility Corridor EA addressed impacts at a programmatic level (Utility Corridor EA Section 4.5). Existing utility infrastructure in the vicinity of the Proposed Action corridor for the majority of the alignment is the SCE transmission line and related easement. At the eastern extent of the of the Proposed Action, where the alignment turns north to connect into the Kramer Substation, additional utilities include natural gas (Kinder Morgan), Verizon, Pacific Gas and Electric, Caltrans and BNSF. The nature of the project allows for flexibility in placement of transmission towers and associated overhead lines, therefore, linear utility features, such as natural gas lines can be spanned without impacting the facilities.

The existing utility infrastructure has been considered as part of the design of the Proposed Action. As such, based on preliminary engineering and design, the Proposed Action alignment would not impact existing utilities.

Land Use. The Utility Corridor EA concluded that utility corridor management would be consistent with both mission operations and local/regional plans and development, including the Installation Development Plan (Utility Corridor EA Section 4.6). Because the Proposed Action would be implementing a project contemplated in the Utility Corridor EA, and within adopted Utility Corridor 5, the Proposed Action would be consistent with both mission operations and local/regional plans and development, including the Installation Development Plan. Per the Installation Development Plan, the PIRA's zoned for permitted uses to include: Aircraft Testing and Evaluation Ranges and Open Space. There is an approved Utility Corridor that goes along the Northern most region of this Sub District which is also where the Proposed Action is proposed to be constructed. This designation allows for the development of utilities; including electrical transmission lines; therefore, no land use change is required for implementation of the Proposed Action.

Noise. The Utility Corridor EA concluded that construction of transmission lines has the potential to result in temporary and localized minor noise impacts (Utility Corridor EA Section 4.8). However, the Utility Corridor EA addressed impacts at a programmatic level. The Proposed Action is not located in proximity to any sensitive noise receptors. Therefore, the Proposed Action does not have the potential to result in a noise impact associated with construction activities.

Socioeconomics. The Utility Corridor EA concluded that construction of utilities within any of the corridors would result in a temporary, minor increase in employment (Utility Corridor EA Section 4.9). This is considered a beneficial impact.

3.0 AFFECTED ENVIRONMENT

This section describes existing environmental conditions that may be affected by the proposed alternatives being considered for further evaluation: the Proposed Action Alternative and the No Action Alternative. It provides the baseline information that was used to identify and evaluate potential environmental changes resulting from the implementation of the proposed alternatives. This section accounts for the reasonably foreseeable environmental trends and planned actions in the area. The environmental trends and planned actions in the area are one of increasing development and encroachment on Edwards AFB. For instance, in November 2020 the Air Force signed a record of decision after completing an environmental impact statement for construction of a solar array that could produce up to 650 megawatts of power on up to 4,000 acres on Edwards AFB. Construction of this solar array is ongoing. In addition, the Aratina Solar Project by 64NB 8ME LLC [8minute Solar Energy] is a proposed photovoltaic solar facility with associated infrastructure to generate up to 530 MW-AC of renewable electrical energy, including up to 600 MW of energy storage (battery) facilities. This proposed project is sited in southeastern Kern County north of the Edwards AFB boundary, and is subject to approval by Kern County. In August 2021, Kern County completed and made available to the public, a Final Environmental Impact Report (FEIR) for the proposed Aratina Solar Project pursuant to the California Environmental Quality Act (CEQA). The proposed Aratina Solar Project would serve as a buffer between the growing community and Edwards AFB.

The Proposed Action would be located near the Air Force's existing Precision Impact Range Area (PIRA) where Edwards AFB conducts mission test and training activities. Most of the aircraft testing takes place at high altitudes and specific designated areas, and these activities produce few ground impacts. This section considers the projects on the Cumulative Projects List in the Aratina Solar Project DEIR, (DEIR Section 3.9 and Figure 3.12) to the extent they are reasonably foreseeable planned actions in the area.

3.1 AIR QUALITY AND GREENHOUSE GASES

The Proposed Action is partially located in the eastern portion of Kern County and partially located in the western portion of San Bernardino County.

The Kern County portion of the Proposed Action is under the jurisdiction of the Eastern Kern Air Pollution Control District (EKAPCD). The San Bernardino County portion of the Proposed Action is under the jurisdiction of the Mojave Desert Air Quality Management District (MDAQMD). These two districts are part of the Mojave Desert Air Basin (MDAB).

3.1.1 Air Quality

Pursuant to the Federal Clean Air Act (CAA) Amendments of 1990, the United States Environmental Protection Agency (USEPA) established National Ambient Air Quality Standards (NAAQS) for pollutants considered harmful to public health and the environment.

NAAQS are established for six pollutants (known as criteria pollutants): ozone (O_3), particle pollution (i.e., particulate matter less than 10 microns in diameter [PM_{10}] and particulate matter less than 2.5 microns in diameter [$PM_{2.5}$]), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and lead (Pb). Under the federal CAA, attainment and maintenance of NAAQS are required.

The California Air Resources Board (CARB) has also adopted its own air quality standards in the state of California, known as the California Ambient Air Quality Standards (CAAQS) under the California CAA. The CAAQS are generally more stringent than the NAAQS and include air quality standards for all the criteria pollutants listed under NAAQS plus sulfates (SO_4), hydrogen sulfide (H_2S), vinyl chloride, and visibility-reducing particulate matter. A summary of federal and state ambient air quality standards is outlined in Table 3-1**.**

Table 3-1.
National and State Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards Concentration	National Standards Primary
O_3	1-hour	0.09 ppm	—
	8-hour	0.070 ppm	0.070 ppm[a]
PM_{10}	AAM	20 µg/m^3	—
	24-hour	50 µg/m^3	150 µg/m^3
$PM_{2.5}$	AAM	12 µg/m^3	12.0 µg/m^3
	24-hour	No Standard	35 µg/m^3
CO	1-hour	20 ppm	35 ppm
	8-hour	9.0 ppm	9 ppm
NO_2	AAM	0.030 ppm	0.053 ppm
	1-hour	0.18 ppm	100 ppb[b]
SO_2	24-hour	0.04 ppm	0.14 ppm
	3-hour	—	0.5 ppm
	1-hour	0.25 ppm	75 ppb
Lead	30-day average	1.5 µg/m^3	—
	Rolling 3-month average	—	0.15 µg/m^3

SO_4	24-hour	25 µg/m^3	No federal standards
H_2S	1-hour	0.03 ppm (42 µg/m^3)	
Vinyl chloride	24-hour	0.01 ppm (42 µg/m^3)	
Visibility-reducing particle matter	8-hour	Extinction coefficient: 0.23/kilometer-visibility of 10 miles or more (0.07–30 miles or more for Lake Tahoe) due to particles when the relative humidity is less than 70%.	

Source: CARB 2021

Notes:

[a] On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[b] To attain this standard, the 3-year average of the 98th percentile daily maximum 1-hour average at each monitor within an area must not exceed 100 ppb (effective January 22, 2010).

AAM=annual arithmetic mean; CO=carbon monoxide; H_2S=hydrogen sulfide; NO_2=nitrogen dioxide; O_3=ozone; $PM_{2.5}$=particulate matter less than 2.5 microns in diameter; PM_{10}=particulate matter less than 10 microns in diameter; ppb=parts per billion; ppm=parts per million; SO_2=sulfur dioxide; SO4=sulfates; µg/m^3=micrograms per cubic meter

Existing Conditions

USEPA classifies the air quality within an air quality control region with regard to its attainment of federal primary and secondary NAAQS. Pursuant to USEPA guidelines, an area with air quality better than the NAAQS for a specific pollutant is designated as being in attainment for that pollutant. Any area not meeting the NAAQS is classified as a nonattainment area. Where there is a lack of data for USEPA to make a determination regarding attainment or nonattainment, the area is designated as unclassified and is treated as an attainment area until proven otherwise. Similarly, California makes state area designations for the state criteria pollutants.

As of 2020, USEPA listed Eastern Kern County as attainment for all standards except the 8-hour O_3 and PM_{10} standards and designated San Bernardino County as attainment for all standards except the 8-hour O_3 and PM_{10} standard (USEPA 2020a). State attainment designations are listed in Table 3-2.

Table 3-2.

State Attainment Designations

CAAQS	Eastern Kern County	San Bernardino County Portion of MDAQMD
O_3	Nonattainment	Nonattainment
$PM_{2.5}$	Unclassified	Nonattainment
PM_{10}	Nonattainment	Nonattainment
CO	Unclassified	Attainment

CAAQS	Eastern Kern County	San Bernardino County Portion of MDAQMD
NO_2	Attainment	Attainment
SO_2	Attainment	Attainment
SO_4	Attainment	Attainment
Pb	Attainment	Attainment
H_2S	Unclassified	Unclassified
Visibility-reducing particles	Unclassified	Unclassified

Notes:

CAAQS=California Ambient Air Quality Standards; CO=carbon monoxide; H_2S=hydrogen sulfide; NO_2=nitrogen dioxide; O_3=ozone; Pb=lead; $PM_{2.5}$=particulate matter less than 2.5 microns in diameter; PM_{10}=particulate matter less than 10 microns in diameter; SO_2=sulfur dioxide; SO4=sulfate; MDAQMD=Mojave Desert Air Quality Management District

General Conformity Requirements

Section 176(c) of the federal CAA contains requirements that apply specifically to federal agency actions, including actions receiving federal funding. This section of the CAA requires federal agencies to ensure that their actions are consistent with the CAA and applicable state air quality management plans. The general conformity regulation is codified in 40 CFR Part 51, Subpart W, and 40 CFR Part 93, Subpart B.

The USEPA general conformity rule requires a conformity determination for federally sponsored or funded actions in nonattainment or maintenance areas when the net increase in emissions of nonattainment or maintenance pollutants exceeds specified *de minimis* thresholds.

Under the General Conformity Rule, the CAA applicability analysis is conducted for federal actions performed in locations with a history of noncompliance, as described below:

- An area that is in nonattainment (i.e., has recorded violations of the NAAQS) for each criteria pollutant (such as O_3, CO, and particulate matter) for which the area is designated nonattainment
- An area designated as nonattainment that was later redesignated by the administrator of USEPA as an attainment area and that is, therefore, required to develop a maintenance plan under Section 7505a of 42 USC with respect to the specific pollutant(s) for which the area was previously designated nonattainment

A conformity determination must be made if the annual emissions exceed the rates specified in 40 CFR Part 93.153(b), referred to as *de minimis* rates. If the applicable emissions exceed the *de minimis* rates outlined in the General Conformity Rule, then the federal agency would prepare a General Conformity Determination for public comment. If the estimated annual emissions are below the applicable *de minimis* rates, the Proposed Action

conforms to the State Implementation Plan (SIP) and is not subject to a general conformity determination (USEPA 2020b).

Thus, the Proposed Action's calculated emissions are compared with established *de minimis* emission levels based on the nonattainment status for each applicable criteria pollutant in the area of concern to determine the relevant compliance requirements. Table 3-3 defines the *de minimis* thresholds that apply to Kern and San Bernardino Counties. Specifically, these include EKCAPCD Rule 210.7 and MDAQMD Rule 2002. If the calculated emissions are equal to or greater than *de minimis* levels, then the requirements of air conformity apply to the action.

Table 3-3.

General Conformity De Minimis Emission Rates for the Kern County (Eastern Kern) and San Bernardino County Portion of the Mojave Desert Air Basin

Pollutant	Federal Attainment Status[a] Kern County (Eastern Kern)	*De Minimis* Emission Rate (tons/year)[b]	Federal Attainment Status[a] San Bernardino County	*De Minimis* Emission Rate (tons/year)
O_3 (VOC and NO_x)	Nonattainment – Severe for 2008 O_3 Standard	25[c]	Nonattainment-Severe15[d]	25
NO_2	Unclassified/Attainment[a]	—	Unclassified/Attainment[a]	—
CO	Unclassified/Attainment[a]	—	Unclassified/Attainment[a]	—
PM_{10}	Nonattainment Serious[a]	70	Nonattainment – Moderate[a]	100
$PM_{2.5}$	Unclassified/Attainment[a]	—	Unclassified/Attainment[a]	—
SO_2	Unclassified/Attainment[a]	—	Unclassified/Attainment[a]	—
Pb	Unclassified/Attainment[a]	—	Unclassified/Attainment[a]	—

Notes:

CO=carbon monoxide; NO_x=nitrogen oxides; NO_2=nitrogen dioxide; O_3=ozone; Pb=lead; PM_{10}=particulate matter 10 microns or less in diameter; $PM_{2.5}$=particulate matter 2.5 microns or less in diameter; SO_2=sulfur dioxide; USEPA=United States Environmental Protection Agency; VOC=volatile organic compound

Sources:

[a] USEPA 2020b

[b] USEPA 2017

[c] Kern County (Eastern Kern) is designated Nonattainment – Moderate for the 2015 O_3 Standard. The final rule for the 2015 O_3 standard was signed October 1, 2015, and effective December 28, 2015. However, the previous (2008) O_3 standards are not revoked and remain in effect for designated areas. Therefore, the *de minimis* rate for a severe nonattainment designation is used for conformity.

[d] This designation status is only applicable to the Los Angeles and San Bernardino Counties within the West Mojave Desert.

3.1.2 Greenhouse Gases

Background

Changes in global climate patterns have recently been associated with global warming, an average increase in the temperature of the atmosphere near the Earth's surface, attributed to accumulation of GHG emissions in the atmosphere. Common GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFC), perfluorocarbons (PFC), and sulfur hexafluoride (SF_6). GHGs are commonly quantified in the equivalent mass of CO_2 (carbon dioxide equivalent [CO_2e]), which considers the global warming potential of each individual GHG compound.

The federal government has taken numerous steps to address climate change:

EO 13514, Federal Leadership in Environmental, Energy, and Economic Performance, issued in October of 2009, states that the policy of the United States is that federal agencies increase energy efficiency, measure, report and reduce their GHG emissions from activities. EO 13653, Preparing the United States for the Impacts of Climate Change, was signed in November 2013 to provide direction for federal agencies to take a series of steps to facilitate efforts for American communities to strengthen their resilience to climate change.

More recently, two new EOs related to climate change were issued in January 2021: EO 13990, Protecting Public Health, the Environment, and Restoring Science to Tackle Climate, and EO 14008, Tackling the Climate Crisis at Home and Abroad. In response to these orders, CEQ reinstated Obama administration policy on how GHG emissions and the effects of climate change are considered in environmental review under NEPA.

Existing Conditions

Based on the 2020 update of the California GHG inventory for 2000 to 2018, California emitted 452 million metric tons of CO_2e in 2018 (CARB 2020).

Currently, the Proposed Action corridor is vacant, with the exception of existing dirt roads and a SCE transmission line and is not a source of air pollutant/GHG emissions.

3.2 CULTURAL AND PALEONTOLOGICAL RESOURCES

Cultural and Paleontological Setting

This section presents a brief overview of the environmental setting and cultural history for the general location of the Proposed Action as summarized from the Utility Corridor EA. Additional information pertaining to the environmental setting is provided in the cultural resources report prepared for the Proposed Action (Appendix B).

3.2.1 Prehistoric Context

The Mojave Desert has been prehistorically occupied by human cultures. Archaeologists have proposed several chronological sequences to describe cultural change in Southern California (Jones and Klar 2007; Moratto 2004). Most recently, Sutton et al. (2007) devised an updated Mojave Desert cultural history, dividing it into four temporal periods: Pleistocene, Early Holocene, Middle Holocene, and Late Holocene.

3.2.2 Ethnographic Context

The APE is within a transitional zone that was occupied by multiple cultural groups including the Serrano, Kitanemuk, and Tataviam. All these groups are better associated with portions of the surrounding mountains—Serrano to the northeast, Kitanemuk to the northwest, Tataviam to the southwest—but all of them likely visited the Antelope Valley floor as part of their resource exploitation strategies. Ethnographic boundaries in the Mojave Desert are loosely defined, owing to the highly mobile nature of desert settlement and resource extraction strategies, as well as the variety of interpretations presented by previous researchers. Appendix B provides a more detailed summary of the ethnographic context of the Proposed Action.

3.2.3 Historic Setting

Post European contact history for the state of California is divided generally into three periods: the Spanish Period (1769 to 1822), the Mexican Period (1822 to 1848), and the American Period (1848 to present). Additionally, the Proposed Action is located in proximity to Boron, a census-designated place in the County of Kern, California, most famous for its extensive colemanite (a borax ore) deposits and is located within the boundaries of Edwards AFB. Appendix B provides a more detailed summary of the historic setting of the Proposed Action.

Native American Graves Protection and Repatriation Act of 1990

NAGPRA provides a process for federal agencies and museums that receive federal funds to repatriate or transfer from their collection's certain Native American cultural items to lineal descendants, and to Native American tribes, Alaska Native Corporations, and Native Hawaiian organizations. NAGPRA also provides a process for federal agencies to address new discoveries of Native American human remains, funerary objects, sacred objects, and objects of cultural property intentionally excavated or inadvertently discovered on federal or tribal lands. Edwards AFB can verify compliance with Sections 5 and 6 of NAGPRA.

3.2.4 Cultural and Paleontological Resources within the NHPA APE

The Proposed Action National Historic Preservation Act Area of Potential Effect (APE) is comprised of: 1) the gen-tie APE within Edwards AFB; and 2) the Aratina Solar Project APE, which is located on private lands outside of the Edwards AFB boundary.

A pedestrian survey of both the gen-tie APE and the Aratina Solar Project APE was conducted that involved a series of pedestrian transects oriented generally east-to-west and spaced no more than 15 meters apart across the entirety of the APE. Details of the pedestrian survey methodology for the gen-tie APE are provided in Appendix D. Cultural resource surveys on the area encompassed by the Aratina Solar Project APE were conducted as part of the California Environmental Quality Act (CEQA) Environmental Impact Report (EIR) prepared by the County. Details of the pedestrian survey methodology for the Aratina Solar Project APE is provided in the Aratina Solar Project Environmental Impact Report (EIR) Appendix E, incorporated herein by reference. Significance evaluations and the rationale for recommendation for eligibility on the NRHP is provided in detail in the corresponding appendices.

Cultural resource surveys of the gen-tie APE identified and recorded 1 previously unrecorded site and updated 14 previously recorded sites. Cultural resource surveys within the Aratina solar project APE identified and recorded 60 archaeological sites within the Aratina solar farm APE (which has been included within the Area of Potential Effect for evaluation under Section 106 of the NHPA).

Based on the Cultural Resources Assessment Report (Rincon 2020) (EIR Appendix E), one cultural resource site (S-008) located on the Aratina Solar Project site has been identified as potentially eligible for listing on the National Register of Historic Places. Edwards AFB has assumed eligibility of this resource. Additionally, one isolate (ISO-031), located within Aratina Solar Farm Site 3, was originally identified as ineligible during the Phase 1 cultural resources survey for the Aratina Solar Project. However, through Native American outreach conducted as part of Section 106 Consultation for the Proposed Action, the Yuhaaviatam of San Manuel Nation indicated that the resource is culturally important. This resource will be buried to protect it at the request of the Yuhaaviatam of San Manuel Nation. Two cultural resources (P-15-000560, and P-15-017304) have been identified within the gen-tie route to the Holgate Substation, which is part of the No Action Alternative. Edwards AFB has assumed eligibility of these sites under the National Register of Historic Places.

Table 3-4 Summarizes the findings of the cultural resources pedestrian surveys within the entirety of the APE for purposes of the NRHP.

Table 3-4.

Summary of Cultural and Paleontological Resources within Proposed Action Area of Potential Effect

Resource	Description	Status
Within Proposed Action APE on Edwards Air Force Base		
ARA-S-003	Historic-period refuse deposit consisting of various metal objects, glass fragments, ceramic pieces, milled lumber, and concrete chunks	Not considered eligible for listing on the NRHP
EAFB 0802	Remnants of a historic-period two-track wagon road extending from Randsburg south to Kramer Hills and Red Buttes	Not considered eligible for listing on the NRHP
EAFB 1330	Historic-period refuse deposit consisting of sanitary and matchstick filler cans; the resource could not be found during the cultural resource survey for the Proposed Action (or previous surveys reported in the site record)	Presumed destroyed
EAFB 2721	Historic-period refuse deposit consisting of household refuse including cans, glass, wood, and ceramics	Not considered eligible for listing on the NRHP
EAFB 2724	Recorded as a historic-period refuse deposit; however, this resource was not found within the survey boundaries during the cultural resources survey for the Proposed Action	Presumed destroyed
EAFB 2734	Historic period refuse deposit consisting of cans, glass, and milled lumber with no diagnostic markers; features consistent with the original findings of glass, milled lumber, and cans were observed during the cultural resources survey for the Proposed Action	Not considered eligible for listing on the NRHP
EAFB 2735	Historic-period refuse deposit containing construction material, domestic expendable items, domestic nonexpendable items, transportation items, and personal items, such as tin cans, glass and ceramic fragments, and miscellaneous metals	Not considered eligible for listing on the NRHP
EAFB 3219	Historic-period refuse scatter consisting of construction materials and expendable domestic items, such as tin cans, glass fragments, ceramics, corrugated sheet metal, lumber, and wire fencing	Not considered eligible for listing on the NRHP

Resource	Description	Status
EAFB 3737	Historic-period refuse scatter consisting of automotive and expendable domestic materials	Not considered eligible for listing on the NRHP
EAFB 3738	Historic-period refuse scatter	Not considered eligible for listing on the NRHP
EAFB 3817	Historic-period road, previously recorded solely through historical map research without any field survey to determine the physical presence of the resource; no cultural materials or features were observed within or near the previously recorded resource boundaries during the cultural resource survey for the Proposed Action	Presumed destroyed
EAFB 3852	Historic-period road; the road was recorded on the *Kramer* Quadrangle topographic maps from 1937 to 1956 and then again on the 1966 *San Bernardino* Quadrangle topographic map (USGS 2019)	Not considered eligible for listing on the NRHP
EAFB 3853	The cultural resources survey efforts associated with the Proposed Action were unable to relocate resource EAFB 3853; EAFB 3853 was recorded solely through historical map research without any field survey to determine the physical presence of the resource, and no cultural materials were observed within or near the previously recorded resource boundaries	Presumed destroyed
EAFB 3854	Historic-period road, recorded solely through historical map research without any field survey to determine the physical presence of the resource; no cultural materials were observed within or near the previously recorded resource boundaries during the cultural resources survey for the Proposed Action	Presumed destroyed
EAFB 3893	Historic-period road, recorded solely through historical map research without any field survey to determine the physical presence of the resource; no cultural materials were observed within or near the previously recorded resource boundaries during the cultural resources survey for the Proposed Action	Presumed destroyed

Resource	Description	Status
Within Proposed Action APE outside Edwards AFB boundary within Aratina Solar Project within the NHPA APE		
S-008	Site S-008 is a moderate density lithic scatter containing approximately 113 flakes of various material types including three varieties of cryptocrystalline silica (CCS; chert, jasper, and chalcedony), quartz, and basalt.	Assumed Eligible for the NRHP (Criteria D).
ISO-031	Isolate (slate pendant)	Ineligible; however, this resource will be buried to protect it at the request of the Yuhaaviatam of San Manuel Nation.
Within No Action Alternative Gen-tie Route to Holgate Substation		
P-15-000560	Resource P-15-000560 is a historic period railroad first recorded in 1977 and last updated in 2013. The segment within the gen-tie alternatives area was given an NRHP status code of 3B: Appears eligible for listing on the NRHP both individually and as a contributor to a NRHP eligible district through survey evaluation.	Assumed Eligible for the NRHP
P-15-017304	Resource P-15-017304 consists of the historic period Twenty Mule Team Road and State Route 58 recorded in 2013. This resource was not evaluated when it was recorded in 2013; however, Twenty Mule Team Road is a California Point of Historical Interest.	Assumed Eligible for the NRHP

Notes:
NRHP=National Register of Historic Places; USGS=United States Geological Survey

3.2.5 Paleontological Resources

Paleoenvironment and Paleontological Setting

Paleontological resources are the mineralized (fossilized) remains of prehistoric plants and animals and the mineralized impressions (trace fossils) left as indirect evidence of the forma and activity of such organisms.

Holocene sedimentary deposits, particularly those younger than 5,000 years old, are generally too young to contain fossilized material. Therefore, the Holocene alluvial and Aeolian deposits mapped in the Proposed Action corridor have been assigned a low paleontological sensitivity. Older Quaternary (Pleistocene) sediments may underlie the Holocene sediments at depths as shallow as 3 feet below ground surface (bgs) in the vicinity of the Proposed Action (Air Force 2016). The older Quaternary alluvium has a high paleontological sensitivity

and a high potential to contain buried intact paleontological resources because the unit has proven to yield significant vertebrate fossils near the Proposed Action corridor.

3.3 GEOLOGY AND SOILS

3.3.1 Geology and Soils within Proposed Action Corridor

Quaternary alluvium, Quaternary sand, and Quaternary older alluvium are the geologic formations located within the Proposed Action corridor (Figure 3-1). Utility Corridor 5 bisects the Muroc fault and Spring fault; however, these faults do not cross the Proposed Action corridor (the faults are located further west of the western terminus of the Proposed Action corridor).

3.3.2 Topography

The elevations within the entire extent of Utility Corridor 5 ranges from approximately 2,500 to 2,580 feet above mean seal level. The corridor is generally flat, with the highest elevations occurring in the west central portion of the corridor (Appendix E). Similarly, the topography of the Proposed Action corridor is generally flat.

3.3.3 Soil/Bedrock Data

The surface lithology of the Proposed Action corridor 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 quartzmonzonite intrusive units (Air Force 2016) consisting of Quaternary Alluvial, Quaternary Older Alluvial, and Quaternary Surficial deposits as follows:

- **Quaternary Alluvial Deposits.** Very young alluvial-valley deposits (late Holocene) consisting of unconsolidated silt, sand, and cobbles
- **Quaternary Older Alluvial Deposits.** Moderately to well consolidated old alluvial deposits of the late to middle Pleistocene era consisting of silt, sand, and gravel
- **Quaternary Surficial Deposits.** Mostly unconsolidated very young surficial deposits (late Holocene) consisting of silt, sand, gravel, and small cobbles)

Figure 3-2 depicts the soils within the Proposed Action corridor. The Proposed Action corridor traverses Cajon-Norob complex, Cajon loamy coarse sand, and Norob sandy loam. None of these soil types are associated with prime, unique, or farmland of statewide importance.

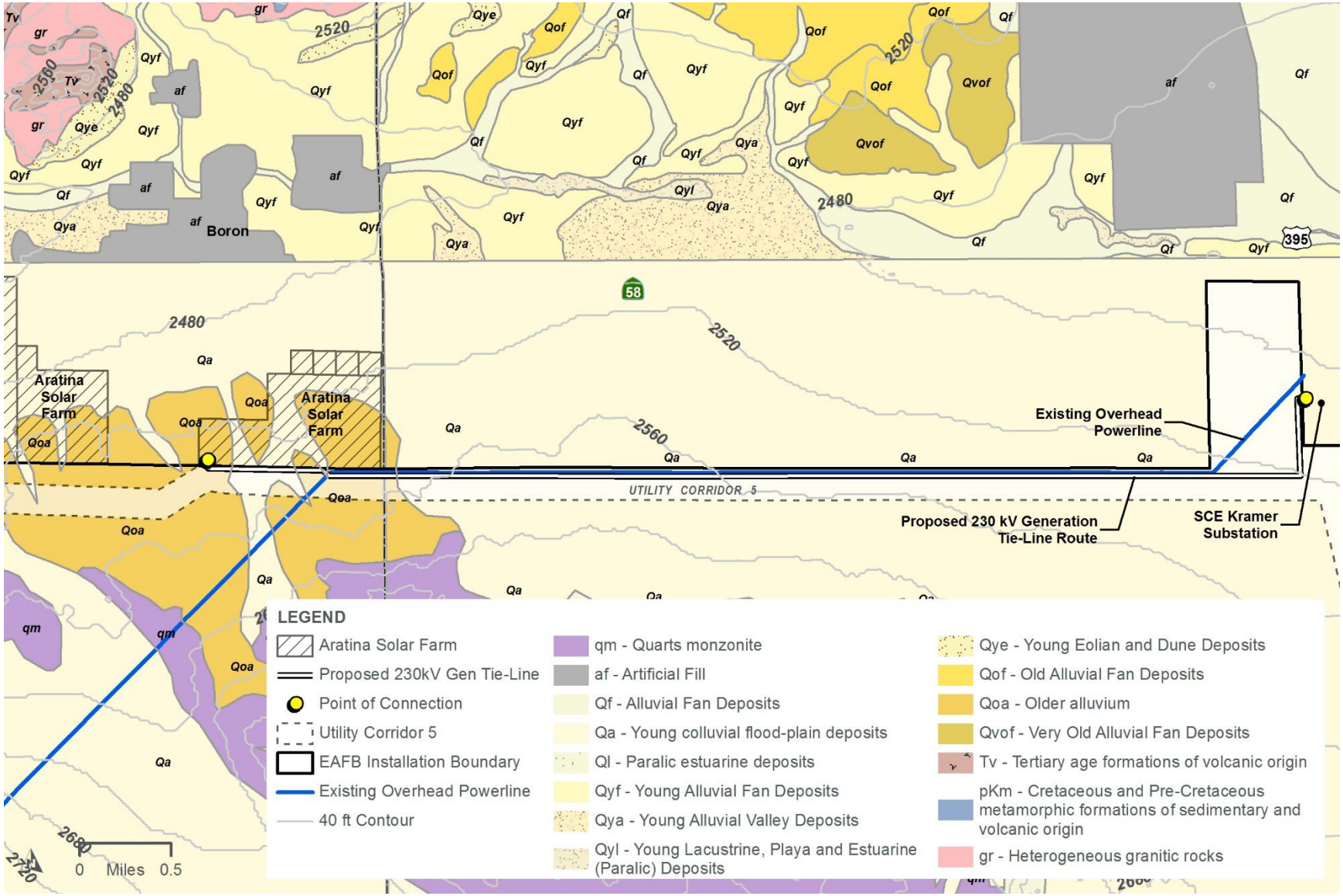

Figure 3-1. Geology and Soils

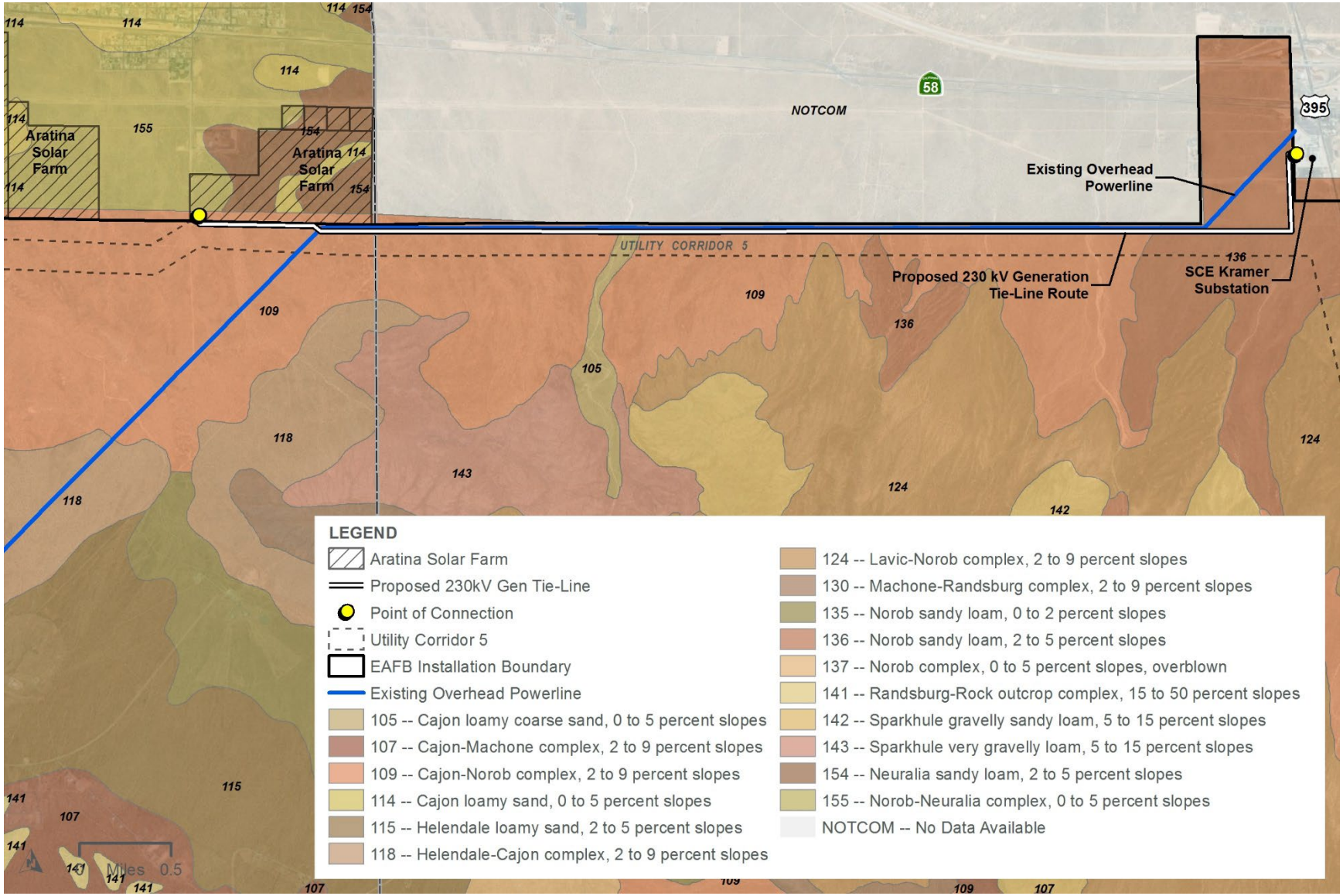

Figure 3-2. Soils within Proposed Action Corridor

3.3.4 Regional Seismicity

The Proposed Action corridor is located within a highly active seismic zone. Several of the more recent earthquakes in the Proposed Action corridor include the 1992 Johnson earthquake, the 1992 Big Bear earthquake, the 1994 Northridge earthquake, and the 1999 Hector Mine earthquake (Stantec Consulting Services, Inc. 2019).

The estimated distance of the Proposed Action to the nearest expected surface expression of major active faults is presented in Table 3-5.

Table 3-5.
Approximate Distance of Major Faults to Proposed Action Corridor

Fault	Approximate Distance (miles)	Maximum Moment Magnitude
Helendale-South Lockhart	9.2	7.4
Lenwood-Lockhart-Old Woman Springs	9.9	7.5
Gravel Hills – Harper Lake	22.2	7.1
Garlock	26.8	7.6
South Sierra Nevada	28.5	7.5
Blackwater	31.0	7.1
South San Andreas	38.1	8.2

Source: Stantec Consulting Services, Inc. 2019

3.3.5 Fault Rupture Hazard

The Proposed Action corridor is not located within a currently mapped Alquist-Priolo Special Studies Fault Zone (Air Force 2016). As noted above, the nearest active major fault is the Helendale – South Lockhart fault, located approximately 9.2 miles northeast of the Proposed Action corridor. Based on the fault's distance from the Proposed Action corridor, and since the fault does not project toward the Proposed Action corridor, the potential for surface fault rupture to occur is low.

3.3.6 Erosion

Potential erosion from wind and water to soils within the Proposed Action corridor are based on the evaluation conducted for the Utility Corridor EA. A soil survey was conducted, and potential erosion from wind and water to soils has been determined by the National Resources Conservation Service. For the soils within Edwards AFB, a Wind Erodibility Group (WEG) has been determined for those soils with similar properties that affect their susceptibility to wind erosion.

The Cajon-Norob complex, Cajon loamy coarse sand, and Norob sandy loam soils have a WEG of 1 and 2, on a scale of 8, with those categorized in the WEG 1 as the most susceptible to wind erosion, and the soils assigned to Group 8 as the least susceptible to wind erosion.

3.4 HAZARDOUS MATERIALS AND HAZARDOUS WASTE

Hazardous materials and waste management activities at Edwards AFB are governed by specific environmental regulations including Resource Conservation and Recovery Act (RCRA) (42 USC 6901); Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) (42 USC 9601); the Federal Facility Compliance Act of 1992 (Public Law 102-386); AFMAN 32-7002, Hazardous Materials Management; 40 CFR Parts 260-299, Storage, Treatment and Disposal of Waste; and 49 CFR Parts 171-185, Waste Transportation and Packaging.

The use of hazardous materials results in generation of hazardous waste (e.g., paint waste, used oil, contaminated rags, etc.) and requires proper handling. USEPA enforces the RCRA (40 CFR Parts 260-272), which provides guidelines for the generation, storage, transportation, and disposal of hazardous waste. The California Environmental Protection Agency (Cal-EPA) enforces hazardous waste laws embodied in 22 California Code of Regulations (CCR) Chapters 10-20 and the California Health and Safety Code (Section 25100). Environmental Management manages hazardous waste accumulation.

Guidelines used by the Air Force include the Edwards AFB Hazardous Waste Management Plan (Air Force 2016), which was prepared in accordance with AFMAN 32-7002, Waste Management. The Hazardous Waste Management Plan contains requirements for solid and hazardous waste characterization, training, accumulation, turn-in, and disposal, as well as procedures for inspections, permits, and recordkeeping. It is intended to ensure compliance with applicable federal, state, and local regulations; simplify administrative procedures; and reduce pollution and environmental impacts through improved waste management practices.

3.4.1 Hazardous Substances Within Proposed Action Corridor

A Phase I Environmental Site Assessment was prepared for the Proposed Action corridor to determine the potential for the presence of hazardous materials or substances or hazards (Appendix E). The following summarizes the findings of the Phase I Environmental Site Assessment.

Precision Impact Bombing Area (PIRA) and Target Site PB-9 Overshoot Area. The PIRA contains targets, gunnery ranges, and drop zones for pilots and engineers to test aircraft and weapon systems using primarily infrared laser imaging. The Phase I Environmental Site Assessment indicated that there is the potential for unexploded ordnance (UXO) or munitions debris within the Proposed Action corridor (Appendix E). The potential presence for UXO and/or munitions debris is considered a recognized environmental concern (REC).

Underground Natural Gas Pipelines. Signage for underground natural gas pipelines was observed that indicated gas lines pass through the north-to-south trending segment of the Proposed Action corridor near Kramer Junction. Various leak-identification systems are in place for natural gas pipelines, and it is unlikely that any leakage has occurred. Therefore, the presence of the pipeline facilities is not considered a REC.

Water Wells. One monitoring well was observed within the western portion of the Proposed Action corridor (Appendix E, Figure 3). The specific use of the monitoring well was not known during the Phase I ESA but was reported as likely a part of the Edwards AFB Operable Unit 3, Basewide Monitoring Wells. Operable Unit 3 is defined as the basewide water wells and originally included 660 potential well sites determined from historical records and archival research. An Edwards AFB AFCEC/CZOW program manager was consulted regarding this well. Although the exact use of the well was not determined, it is likely used as part of the groundwater monitoring well network as part of the base boundary and/or is used as a sentinel well. This well is planned to be avoided during construction of the Proposed Action. Further, a record of decision was adopted in 2003 which documents the process and rationale for taking no further action regarding the abandoned water wells within Operable Unit 3 at Edwards AFB, since no contamination of soils or groundwater was found.

Environmental Restoration Program (ERP) Site 438. ERP Site 438 is located in the northeast portion of Edwards AFB along the segment of the Proposed Action corridor that extends north toward the SCE Kramer Substation (Appendix E, Figure 7).

Based on the Phase I Environmental Site Assessment, the information obtained during the investigation of ERP Site 438 was summarized in a "No Further Investigation" (NFI) letter submitted by the Department of the Air Force to the Regional Water Quality Control Board (RWQCB), Department of Toxic Substances Control (DTSC), and USEPA. The NFI letter was signed by each of the agencies indicating their concurrence with the finding that no further investigation was necessary.

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 asbestos-containing material (ACM) that can be reduced to powder by hand pressure. There are no buildings or structures within the Proposed Action corridor. Therefore, the presence of ACM is unlikely. There is the potential that underground utilities are coated with or wrapped with ACM.

Lead-based Paint. Concern for the presence of lead-based paint is primarily related to residential structures. There are no painted structures or surfaces within the Proposed Action corridor. Lead-based paint is not expected to be encountered within the Proposed Action corridor.

Radon. According to the USEPA Map of Radon Zones, the Proposed Action corridor is located within Zone 2, which indicates a moderate potential, where the chance of a house exceeding the USEPA recommended radon action level of 4 picocuries per liter is relatively moderate.

3.5 NATURAL RESOURCES

3.5.1 Existing Conditions

The Proposed Action corridor is generally located approximately 300 feet south of the northern boundary of Edwards AFB except in the area of the Kramer Substation. The eastern 5.4 miles of the Proposed Action corridor lies at the northern boundary of the Bureau of Land Management-designated Fremont-Kramer Area of Critical Environmental Concern (ACEC). This area provides high density desert tortoise habitat and encompasses designated desert tortoise critical habitat. This area provides critical tortoise habitat linkage.

Biological surveys were conducted within the Proposed Action corridor between June 2, 2020 and June 5, 2020 (Appendix F). Table 3-6 and Figure 3-3 through Figure 3-8 depict the vegetation communities within the Proposed Action corridor.

Table 3-6.
Proposed Action Vegetation Communities

Vegetation Community[a]	Proposed Action Transmission Line (Acres)	Proposed Action Transmission Line (Percent)
Larrea tridentate – Ambrosia dumosa Shrubland Alliance (creosote bush – white bursage scrub)	41.58	54.2
Atriplex spinifera Shrubland Alliance (spinescale scrub)	30.50	39.8
Larrea tridentate Shrubland Alliance (creosote bush scrub)	3.18	4.1
Ambrosia dumosa Shrubland Alliance (white bursage scrub)	0.73	1.0
Atriplex polycarpa Shrubland Alliance (allscale scrub)	0.67	0.9

Vegetation Community[a]	Proposed Action Transmission Line (Acres)	Proposed Action Transmission Line (Percent)
—	**76.66**	**100.0**

Source: Appendix F

Notes:

[a] Vegetation communities per Sawyer et al. 2009

Figure 3-3. Vegetation Communities (Sheet 1 of 6)

Figure 3-4. Vegetation Communities (Sheet 2 of 6)

Figure 3-5. Vegetation Communities (Sheet 3 of 6)

Figure 3-6. Vegetation Communities (Sheet 4 of 6)

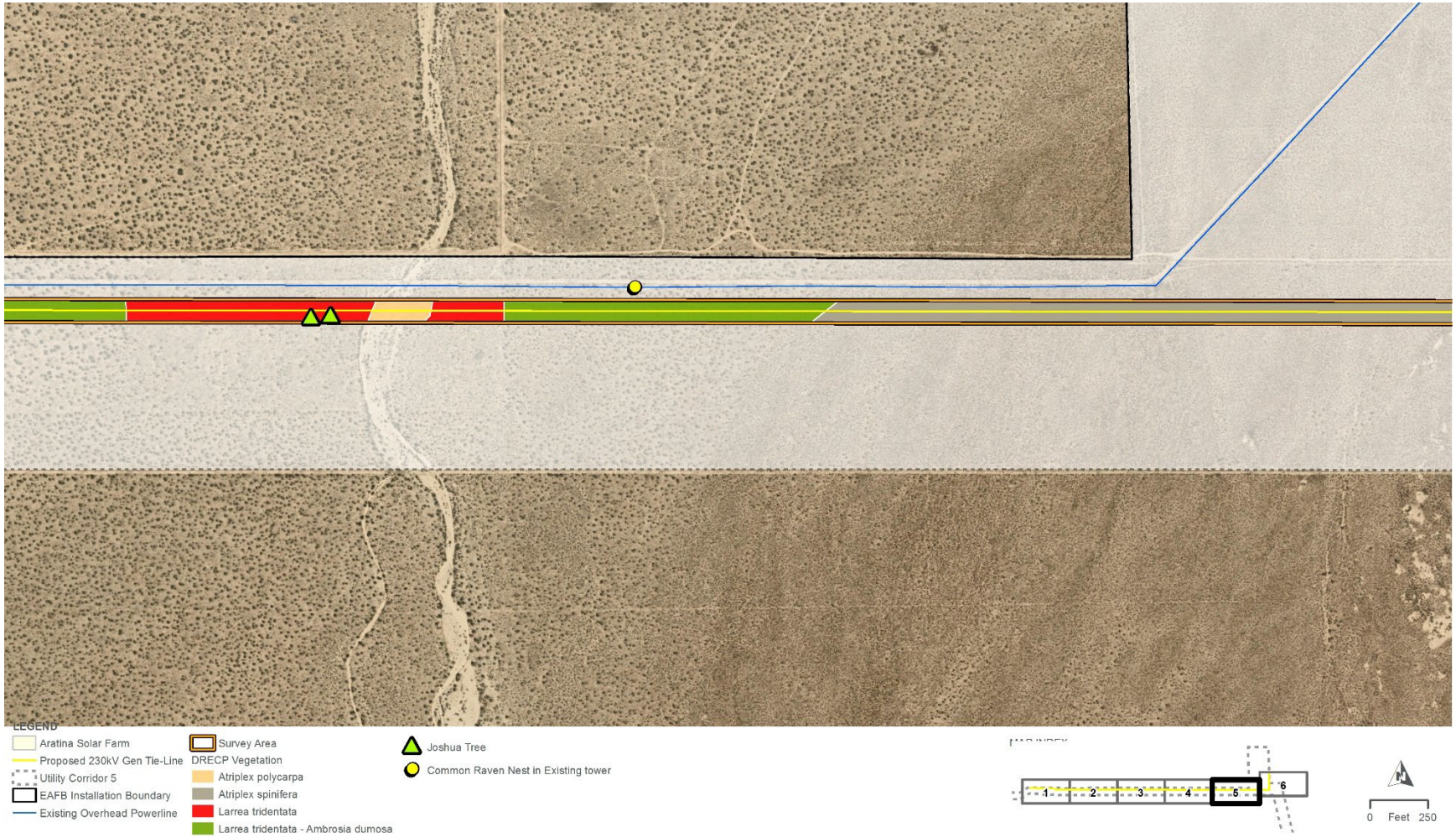

Figure 3-7. Vegetation Communities (Sheet 5 of 6)

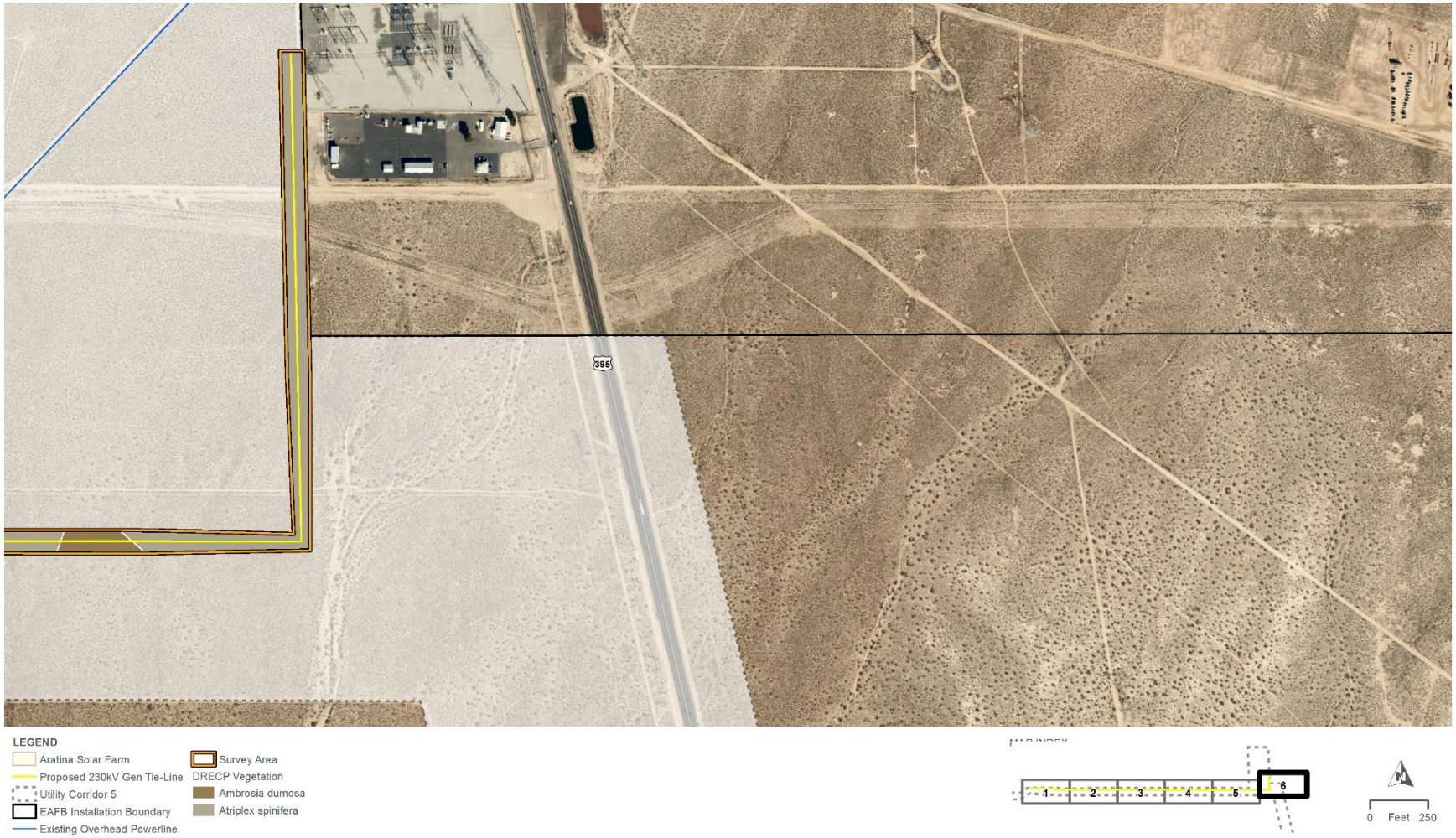

Figure 3-8. Vegetation Communities (Sheet 6 of 6)

Figure 3-9 depicts the location of observed species within the Proposed Action corridor.

3.5.2 Desert Tortoise

The Proposed Action corridor is located in designated desert tortoise critical habitat (Figure 3-10). The Proposed Action area is located within both desert tortoise critical habitat (85%) and outside desert tortoise critical habitat (15%). No desert tortoise sign was detected in 25.4 miles of transects walked within the Proposed Action corridor during the field survey. However, it must be acknowledged that the sample size of 25.4 miles of transects is relatively small and could result in failure to detect individuals that do not reside on the site but may walk onto the site and use it for forage.

3.5.3 Burrowing Owl

No burrowing owl sign was detected in 25.4 miles of transects walked within the Proposed Action corridor during the field survey.

3.5.4 Mohave Ground Squirrel

The Proposed Action corridor is within the geographic range of Mohave ground squirrel (MGS), and there are multiple records of this species being trapped and identified during surveys within the Proposed Action corridor. The current California Natural Diversity Database (CNDDB) contains multiple records of MGS in the general vicinity of the Proposed Action corridor.

Given the intact nature of the vegetation communities, limited human disturbances, the appropriate soil types for burrow construction, and the availability of forage and cover from predators and weather events, MGS populations could be supported within the Proposed Action corridor (Appendix F).

3.5.5 Desert Kit Fox

One inactive desert kit fox den was located during the survey of the Proposed Action corridor. There was no evidence of recent use of any of the four entrances.

3.5.6 Western Joshua Tree

On September 22, 2020, the California Fish and Game Commission accepted for consideration a petition to list the western Joshua tree (*Yucca brevifolia*) as threatened or endangered under the California Endangered Species Act and made the western Joshua tree a candidate species. A total of 27 western Joshua trees were identified within the Proposed Action corridor.

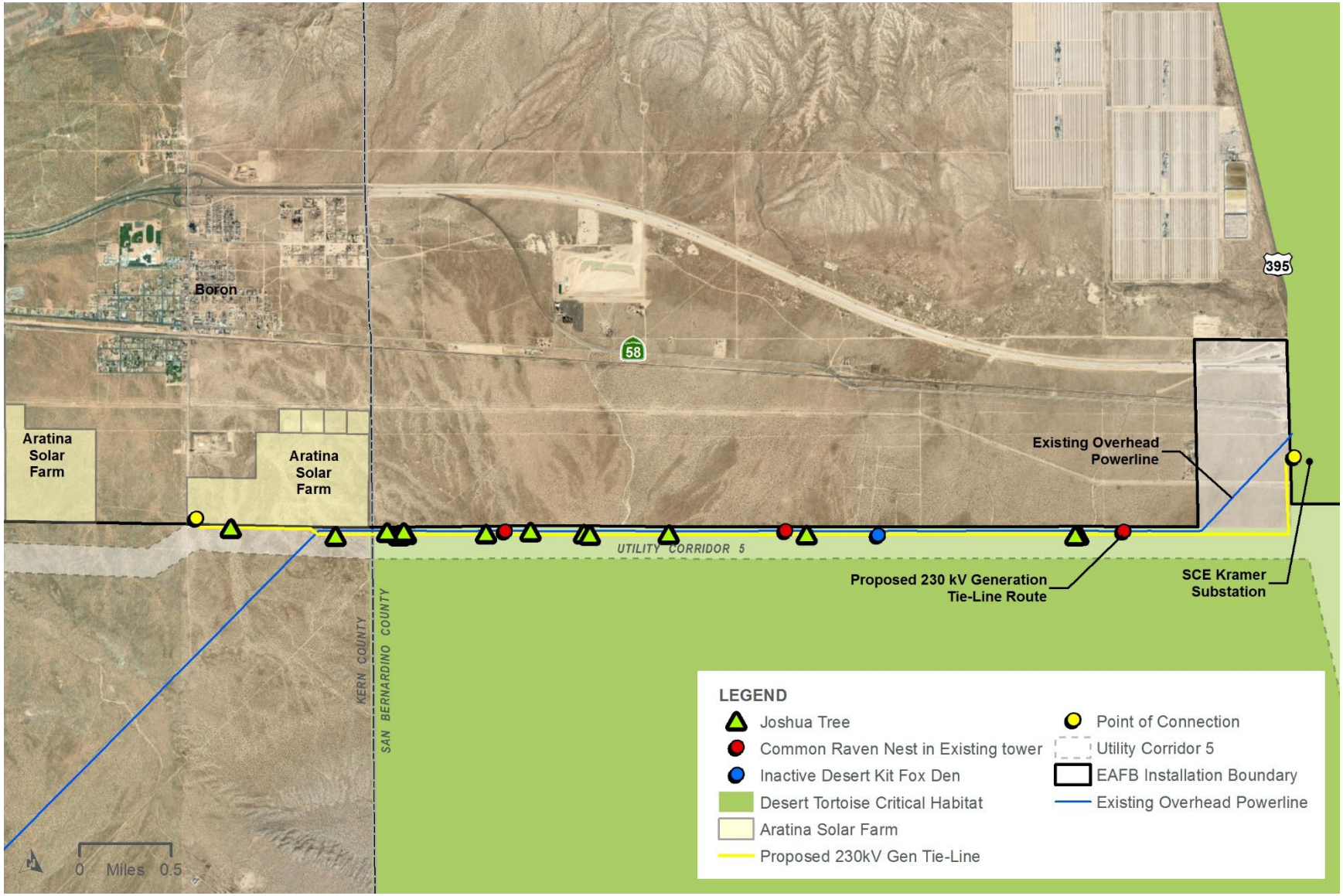

Figure 3-9. Wildlife Data

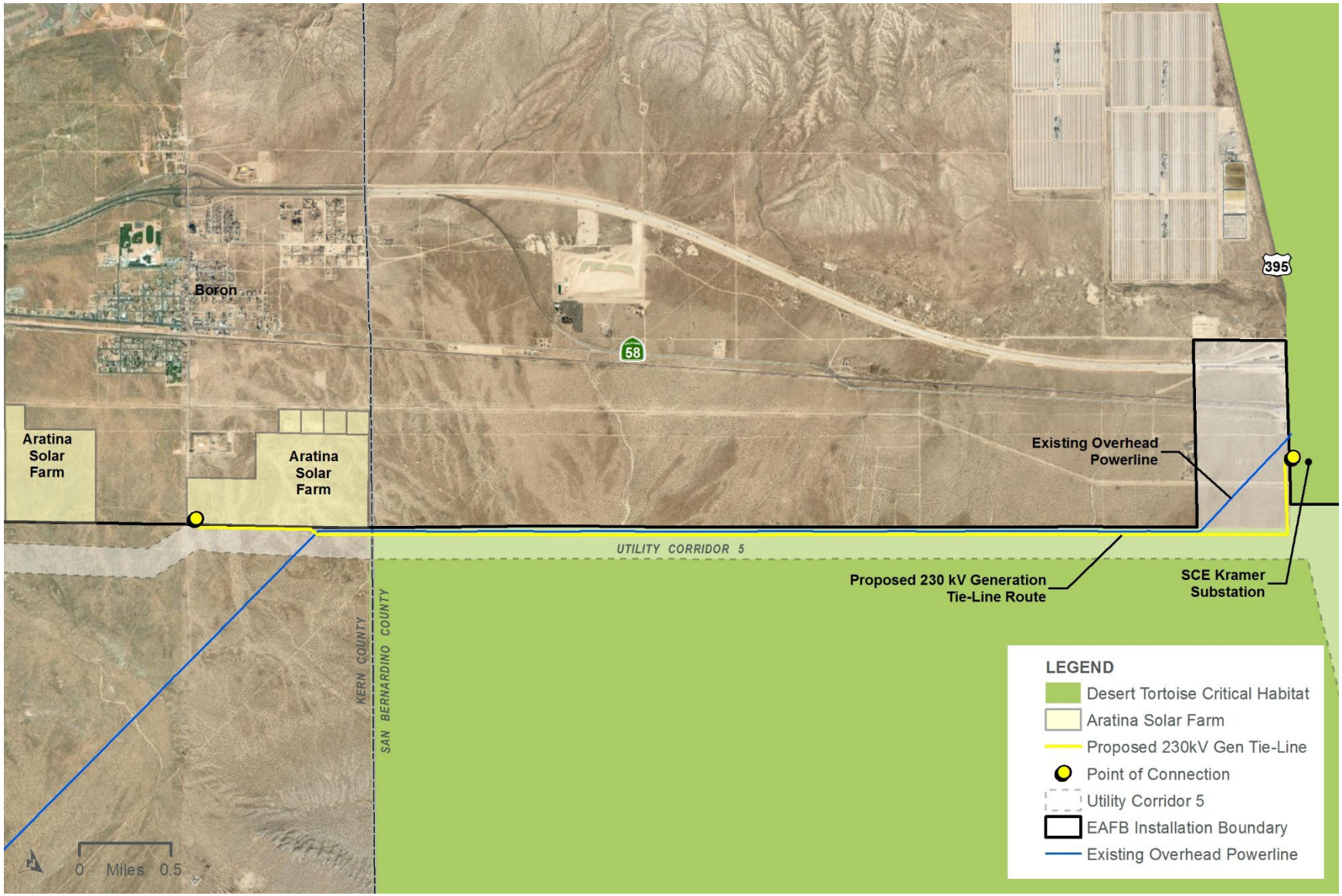

Figure 3-10. Desert Tortoise Critical Habitat

3.5.7 Other Special-Status Species

There were three observations of common raven (*Corvus corax*) nests on the cross beams of three of structures of the existing transmission line. Ravens are not a special-status species but are granted protection, like many bird species, under the MBTA of 1918 (Appendix F).). This protection is extended to their nests and eggs.

Common ravens are also a well-known predator of juvenile tortoises. It takes several years for the bones underlying the scutes on a juvenile desert tortoise to ossify. During this time, they are vulnerable to predation by several species, including common ravens. Ravens can peck a hole in the shell and remove and consume the juvenile tortoise leaving only the shell remains. The resulting hole in the carcass is a distinctive indicator of raven predation. Ravens will sometimes consume juvenile tortoises where they are found. Other times, ravens will carry the juvenile tortoise to their nest, consume the animal, and discard the carcass from the nest. This results in juvenile tortoise carcasses sometimes being found below raven nests. No juvenile carcasses were found below the three raven nests found on the Proposed Action corridor.

3.5.8 General Species Observations

A total of 13 vertebrate species were detected within the Proposed Action corridor. These included eight bird species, two mammal species, and four reptile species. Table 3-7 lists the general species observations.

Table 3-7.
General Species Observations

Scientific Name	Common Name
Birds	
Zenaida macroura	Mourning Dove
Tyrannidae	Flycatchers
Sayornis saya	Say's Phoebe
Tyrannus verticalis	Western Kingbird
Lanius ludovicianus	Loggerhead Shrike
Corvus corax	Common Raven
Campylorhynchus brunneicapillus	Cactus Wren
Artemisiospiza belli	Bell's Sparrow
Mammals	
Ammosphermophilus leucurus	Whitetail Antelope Squirrel
Lepus californicus	Black-tailed Jackrabbit

Reptiles	
Phrynosoma platyrhinos	Desert Horned Lizard
Gambelia wislizenii	Long-nosed leopard lizard
Aspidoscelis tigris	Western Whiptail
Chionactis occipitalis	Western Shovel-nosed Snake

3.6 WATER RESOURCES

Edwards AFB is located in a basin that is essentially closed with respect to both surface drainage and groundwater movement. Most of the precipitation of the region falls in higher elevations, and any resulting stormwater flow in ephemeral and/or intermittent streambeds evaporates or infiltrates before it reaches lower elevations. There are no jurisdictional waters or perennial streams within Edwards AFB.

Flood Hazards. Figure 3-11 depicts the Proposed Action corridor in relation to the Federal Emergency Management Agency flood hazard zones. As shown, the Proposed Action corridor is located within an area designated as "Area of Undetermined Flood Hazard." There are no 100-year flood hazards zones located within the Proposed Action corridor.

The Proposed Action corridor is located within the Town of Boron Watershed and the Town of Kramer Junction Watershed. Figure 3-12 depicts the location of the Proposed Action within the context of these watersheds. As shown, the Proposed Action corridor is traversed by several north-to-south trending National Hydrology Dataset (United States Geological Survey [USGS]) flow lines.

Groundwater. Edwards AFB overlies portions of the following groundwater basins that are part of the South Lahontan Hydrologic Region.

The western portion of the Proposed Action corridor is located within the Antelope Valley groundwater basin (6-044) and the eastern portion is within the Harper Valley groundwater basin (6-047).

Based on topography, surface water within the Proposed Action corridor infiltrates the ground surface or flows over land to the north down seasonal waterways. Several low-lying areas are also present within the Proposed Action corridor, discernable by the accumulation of rainwater and subsequent fine-grained sediment material, creating small playas. According to the California Department of Water Resources (CDWR) online Groundwater Information Center Interactive Map Application (GICIMA), groundwater in the area of the Proposed Action corridor is approximately 170 feet bgs, or deeper, and generally flows northwest (Appendix E).

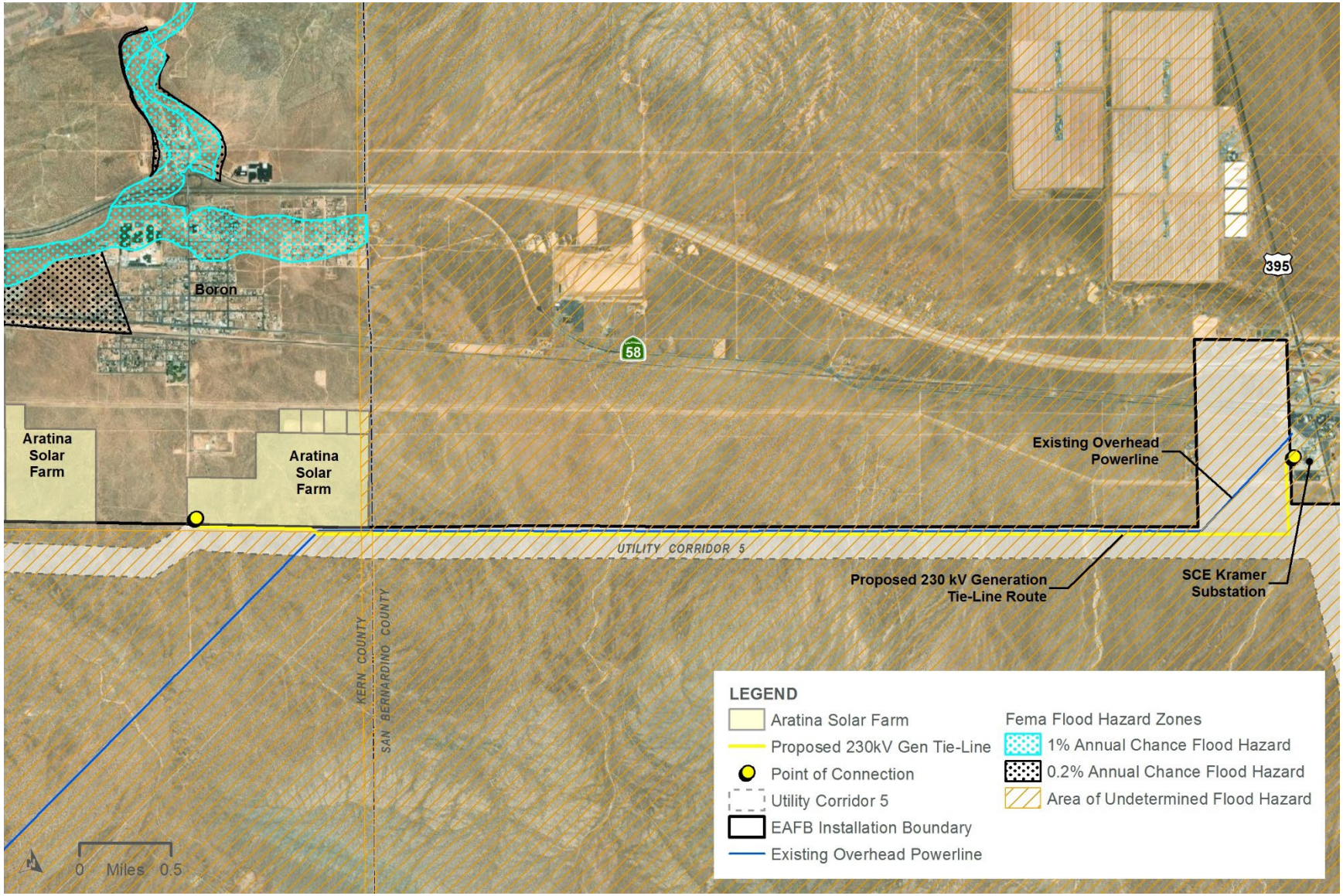

Figure 3-11. Federal Emergency Management Agency Flood Hazard Areas

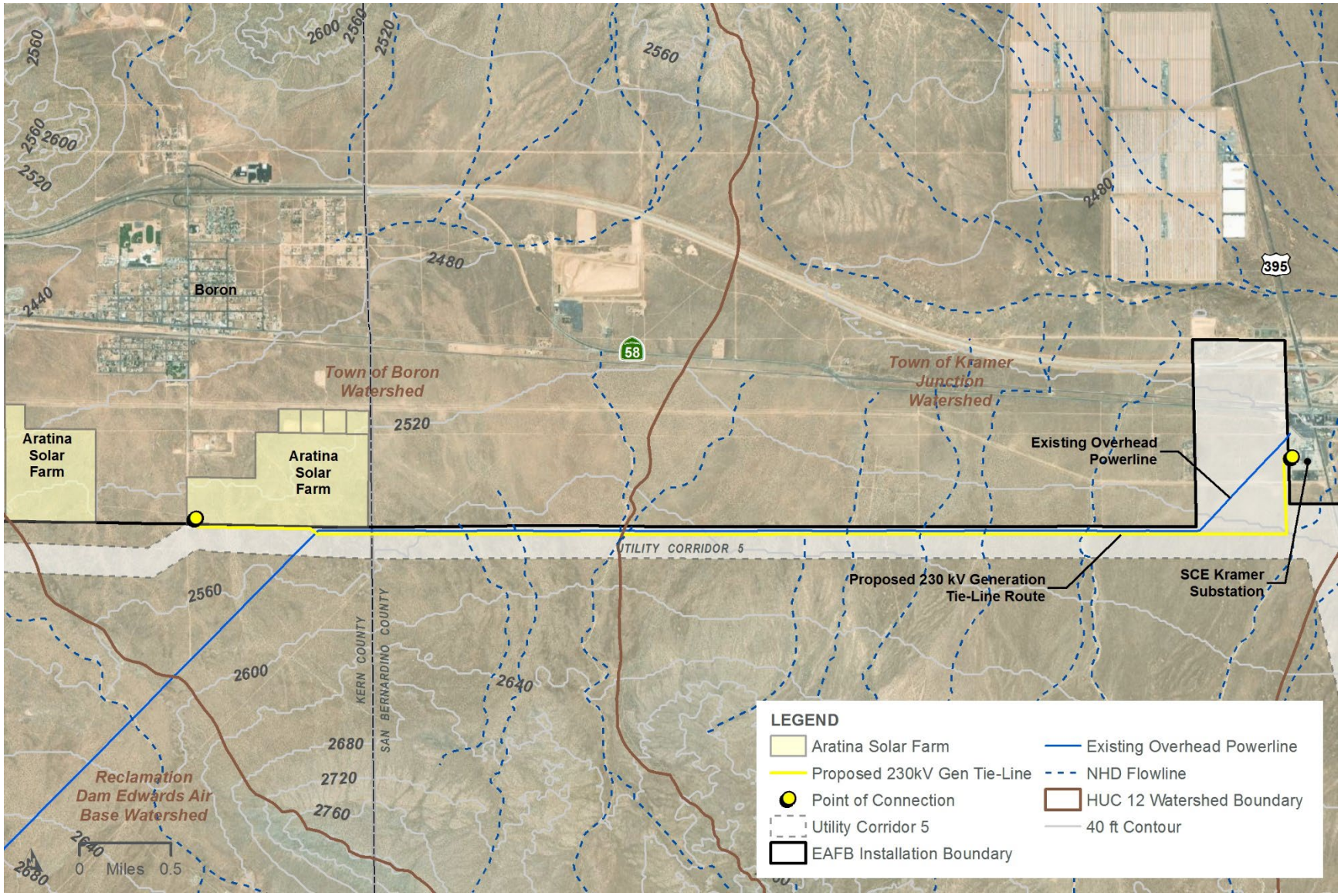

Figure 3-12. Watersheds

4.0 ENVIRONMENTAL CONSEQUENCES

This section presents the potential environmental consequences that could result from implementation of the Proposed Action and No Action Alternative. The potential environmental effects or impacts analyzed in this section are changes to the human environment from the Proposed Action or alternatives that are direct, indirect, and/or cumulative as a result of implementation of the proposed action or alternatives, including those effects that occur at the same time and place as the proposed action or alternatives and may include effects that are later in time or farther removed in distance from the proposed action or alternatives but which are still reasonably foreseeable, and the incremental effects of the action when added to the effects of other past, present and reasonably foreseeable actions regardless of what agency (Federal or non-Federal) or person undertakes such other actions. Cumulative effects can result from individually minor but collectively significant actions taking place over a period of time.

This EA incorporates by reference Table 3-3 Cumulative Projects List and Figure 3-12 Cumulative Projects Map from the Environmental Impact Report for the Aratina Solar Project (SCH#2021020513)1, which considers 26 other projects within the project area including on Edwards Air Force Base. The majority of these projects are utility-scale solar projects, but also includes utility-scale wind projects, as well as non-energy related projects. Seven of the projects are located within a 6-mile radius of the Proposed Action.

4.1 AIR QUALITY AND GREENHOUSE GASES

4.1.1 Proposed Action Alternative

The Proposed Action could have an adverse impact on air quality if it would exceed the *de minimis* rates that apply to the Kern County (Eastern Kern) and San Bernardino County portions of the MDAB, as previously listed in Table 3-3 for construction and operation.

For GHG emissions, CEQ rescinded the 2019 *Draft NEPA Guidance on Consideration of Greenhouse Gas Emissions* and is currently updating the 2016 *Guidance on GHG and Climate Change.* In the interim, CEQ encourages all agencies to use available tools and resources for evaluating GHG emissions, including the 2016 guidance (*Federal Register* 86, 10252, February 19, 2021). The 2016 guidance does not establish a significance threshold for GHG emissions, and CEQ cautions against an in-depth analysis because climate change impacts are not attributable to a single action. Instead, it is recommended that the "rule of reason" and the "concept of proportionality" be used instead to evaluate GHG emissions (CEQ 2016). As described in the guidance, the rule of reason is inherent in NEPA and the CEQ regulations, allowing agencies to determine how to consider an environmental effect and prepare an analysis based on available information and expertise. Per the guidance,

[1] Available at https://kernplanning.com/environmental-doc/aratina-solar-project/.

under the concept of proportionality, agencies should discuss impacts in proportion to their potential significance.

General Conformity Assessment

A General Conformity assessment was conducted for the Proposed Action, which includes EKAPCD Rule 210.7 and MDAQMD Rule 2002 thresholds. Table 4-1 presents the total annual criteria air pollutants that would be generated during construction of the Proposed Action. Table 4-1 also provides a comparison of the maximum total annual emissions and the applicable *de minimis* rates. The total and maximum total annual emissions for other criteria air pollutants and GHGs are also reported for informational purposes.

The maximum total emissions from the Proposed Action would not exceed the tons per year *de minimis* rate for voltaic organic compounds (VOC) and nitrogen oxides (NO_x) or the 70 tons per year *de minimis* rate for PM_{10}. Therefore, the Proposed Action conforms to the SIP, and a General Conformity determination is not necessary. Furthermore, the modeled emissions do not account for the fugitive dust measures and exhaust control measures that would be implemented, as identified under Avoidance and Mitigation Measures, which would further minimize the estimated annual emissions for construction activities. The Air Conformity Applicability Model results and fugitive dust emissions from unpaved road calculations are provided in Appendix C.

Table 4-1.
Total Annual Emissions for Proposed Action

Year Construction	Estimated Annual Emissions (tons/year)[a]								
	VOC	**NO_x**	**PM_{10}**	**CO**	**SO_x**	**$PM_{2.5}$**	**Pb**	**Ammonia**	**CO_2e**
2021	0.4	2.4	24.1	1.7	<1.0	<1.0	0	<1.0	692
2022	0.8	4.5	44.8	3.2	<1.0	<1.0	0	<1.0	1,321
Maximum Annual Emissions	**0.8**	**4.5**	**41.6**	**3.2**	**<1.0**	**<1.0**	**0**	**<1.0**	**1,321**
De Minimis Rates	25	25	70	—	—	—	—	—	—
De Minimis Rate Exceeded?	No	No	No	—	—	—	—	—	—

Notes:

[a] This includes the unpaved road fugitive dust emissions.

See Appendix C for Air Conformity Applicability Model results and other calculations.

CO=carbon monoxide; CO_2e=carbon dioxide equivalent; NO_X=nitrogen oxides; Pb=lead; $PM_{2.5}$=particulate matter with a diameter of 2.5 or less; PM_{10}=particulate matter with a diameter of 10 microns or less; SO_x=sulfur oxide; VOC=volatile organic compound

Climate Change and Greenhouse Gases

The Proposed Action would generate GHG emissions during construction and routine operation and maintenance activities. Table 4-1 lists the estimated construction-related GHGs (CO_2e) from the Proposed Action. As shown in Table 4-1, the GHGs (CO_2e) generated by construction of the Proposed Action are not adverse. Because the operation of the Proposed Action would require only periodic maintenance, with limited use of vehicle and/or equipment, there would be no significant direct or indirect impact associated with operation. Additionally, the construction and operation of new renewable energy facilities would offset GHG emissions, as well as criteria pollutants, including NO_x, VOC, $PM^{2.5}$, PM^{10}, and SO_x, by allowing for the replacement and decommissioning of fossil-fueled power plants that generate high levels of GHG emissions and criteria pollutants. The project would facilitate the provision of solar-generated electricity each year to the power grid, which would be used instead of electricity generated by fossil fuels. The Proposed Action would convey up to 600 megawatts of renewable energy to the electric grid to assist the state of California in achieving its 50 percent RPS by 2030 and its 100 percent clean energy goal by 2050. Therefore, the Proposed Action would result in a lifetime reduction of GHG emissions and be regionally beneficial because it would provide renewable energy for the state.

Cumulative Effects

Due to its minor effects and proposed mitigation including dust control measures, the Proposed Action would not cause any significant cumulative changes to air quality and greenhouse gas emissions that are reasonably foreseeable taking into account those incremental effects of the action when added to the effects of other past, present and reasonably foreseeable actions as both the Proposed Action. The Proposed Action would have long-term direct and indirect beneficial effects by reducing air pollution, including greenhouse gas emissions as it would replace fossil fuel energy sources such as coal, oil and natural gas that are currently used to power the electric grid.

4.1.2 No Action Alternative

With implementation of the No Action Alternative, there would be no temporary construction emissions within Corridor 5, and no measures would be required to minimize construction emissions and dust. However, if approved by Kern County, implementation of the No Action Alternative would likely result in the construction of the transmission line off base within privately owned lands, connecting to the existing Holgate Substation. A similar level of emissions as the Proposed Action associated with the construction of a transmission line connection to the Holgate Substation would be expected. Likewise, a similar level of GHG emission reductions and criteria pollutant (NO_x, VOC, $PM_{2.5}$, PM_{10}, and SO_x) reductions would be achieved. The No Action Alternative would have long-term indirect beneficial effects by reducing air pollution, including greenhouse gas emissions as it would replace fossil fuel energy sources such as coal, oil and natural gas.

Similar to the Proposed Action, the No Action Alternative would not cause any significant direct, indirect, or cumulative changes to air quality and greenhouse gas emissions. No federal conformity analysis would be required as there would be no federal approval associated with this alternative.

4.1.3 Avoidance and Mitigation Measures

Avoidance and mitigation measures previously identified in the Utility Corridor EA would be required to be implemented for the Proposed Action. Several of these Utility Corridor EA measures listed are non-discretionary (i.e., they are required by existing rules of the applicable Air Quality Districts). Such measures include compliance with all applicable rules and regulations as identified in AFMAN 32 7002, compliance with all applicable rules and regulations of the EKAPCD and MDAQMD including obtaining applicable permits for construction. Avoidance and mitigation measures to further minimize air emissions are listed in Table 4-2.

Table 4-2.

Air Quality and Greenhouse Gas Avoidance and Avoidance and Mitigation Measures

AIR-1	The Proposed Action shall not discharge from any source whatsoever, such quantities of air contaminants or other material that will cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public; endanger the comfort, repose, health, or safety of any such persons or the public; or cause or have a natural tendency to cause injury or damage to business or property.
AIR-2	All earthwork activities shall be planned and conducted to minimize the duration that soils will be left unprotected. The extent of the area of disturbance necessary to accomplish the Proposed Action shall be minimized. Exposed surfaces shall be periodically sprayed with water.
AIR-3	Water or dust suppressants shall be applied to roads and open areas where dust is being generated. If winds produce excessive visible emissions, erect wind barriers. Do not grade or till compacted dirt without applying water or dust suppressant.
AIR-4	Grading and other ground-disturbing activities shall be discontinued at wind speeds exceeding 25 miles per hour.
AIR-5	All vehicles transporting fill material or debris shall be covered to minimize $PM_{2.5}$ and PM_{10} emissions during transport.
AIR-6	Temporary coverings shall be installed over open storage piles.
AIR-7	All mechanical and construction equipment shall be kept in good working order according to applicable technical orders and the manufacturer's equipment maintenance manuals to minimize emissions to acceptable levels.
AIR-8	A dust control plan shall be prepared for the Proposed Action. The dust control plan shall identify the following:

	• Dust control measures that shall be implemented during site preparation (i.e., clearing, grading, etc.), excavation, and/or post construction include the following: o All soil excavated or graded shall be sufficiently watered to prevent excessive dust. Watering shall occur as needed with complete coverage of disturbed soil areas. o Watering shall be a minimum of twice daily on unpaved/untreated roads and disturbed soil areas with active operations. o All clearing, grading, earth-moving, and excavation activities shall cease during periods of winds greater than 20 miles per hour (averaged over 1 hour), if disturbed material is easily windblown or when dust plumes of 20% or greater opacity impact public roads, occupied structures, or neighboring property. o All fine material transported off site shall be either sufficiently watered or securely covered to prevent excessive dust. o All haul trucks shall be required to exit the site via an access point where a gravel pad or grizzly has been installed. o Stockpiles of soil or other fine loose material shall be stabilized by watering or other appropriate method to prevent wind-blown fugitive dust. o Once clearing or grading has ceased, all inactive soil areas within the Proposed Action corridor shall either be seeded and watered until plant growth is evident, treated with a dust palliative, or watered twice daily until soil has sufficiently crusted to prevent fugitive dust emission. o On-site vehicle speed shall be limited to 15 miles per hour. o All areas with vehicle traffic shall be paved, treated with dust palliatives, or watered a minimum of twice daily. o Streets adjacent to the Proposed Action site shall be kept clean, and accumulated silt shall be removed. o Revegetation/restoration shall be required based on the level of disturbance created from Proposed Action activities. Revegetation/restoration shall be in accordance with the *Edwards Air Force Base Revegetation Plan* (Air Force 1994).

Notes:

AFB=Air Force Base; AFMAN=Air Force Manual; AVAQMD=Antelope Valley Air Quality Management District; CARB=California Air Resources Board; CCR=California Code of Regulations; CFR=Code of Federal Regulations; EKAPCD=Eastern Kern Air Pollution Control District; EO=Executive Order; MDAQMD=Mojave Desert Air Quality Management District; $PM_{2.5}$=particulate matter less than 2.5 microns in diameter; PM_{10}=particulate matter less than 10 microns in diameter; USEPA=United States Environmental Protection Agency; VOC=volatile organic compound

4.2 CULTURAL AND PALEONTOLOGICAL RESOURCES

4.2.1 Proposed Action Alternative

Implementation of the Proposed Action on Edwards AFB would result in ground-disturbing activities with the potential to disturb cultural and paleontological resources. The cultural resource records search and survey identified 1 previously unrecorded site and 14 previously recorded cultural resources within the portion of the

Proposed Action APE on Edwards AFB (the gen-tie APE). Within the gen-tie APE on Edwards AFB, four of the sites (EAFB 1330, EAFB 2721, EAFB 2724, and EAFB 2734) would be directly disturbed with implementation of the Proposed Action. Cultural resources sites EAFB 1330, EAFB 2721, EAFB 2724 and EAFB 2734 are identified as historic trash dumps and have been recommended as ineligible for listing in the NRHP and, therefore, do not qualify as historic properties under Section 106 of the NHPA.

The proposed Aratina Solar Project is located entirely on private lands immediately north of the western most extent of the Proposed Action. Edwards AFB has included the area encompassed by the Aratina Solar Project within the National Historic Preservation Act Area of Potential Effect (APE). Based on the California Environmental Quality Act (CEQA) Environmental Impact Report prepared for the Aratina Solar Project (Kern County, 2021) and Cultural Resources Assessment Report (Rincon 2020) (EIR Appendix E), of the 60 archaeological sites within the Aratina Solar Farm APE, 59 of these sites are considered ineligible for listing on the NRHP. One site, cultural resource site S-008 (identified as a prehistoric lithic scatter), located on the Aratina Solar Project site, has been identified as potentially eligible for listing on the National Register of Historic Places but will require testing or additional research to confirm eligibility. As a result, Edwards AFB has assumed eligibility of this site under the NRHP. The EIR recommends Mitigation Measures MM 4.5-1, MM 4.5-2, and MM 4.5-3 (Kern County, 2021) to ensure direct and indirect impacts to this resource are avoided. Additionally, one isolate (ISO-031), located within Aratina Solar Farm Site 3, was originally identified as ineligible during the Phase 1 cultural resources survey for the Aratina Solar Project. However, through Native American outreach conducted as part of Section 106 Consultation for the Proposed Action, the Yuhaaviatam of San Manuel Nation indicated that the resource is culturally important. The Phase 1 cultural resources survey identified this isolate as ineligible, in part because there are no other indications that there are other surface, or subsurface features, and the likelihood of the occurrence of subsurface features is considered low. This resource will be buried, in consultation with the Yuhaaviatam of San Manuel Nation, where it will be protected, in a location in as close proximity to where discovered. Mitigation Measure CUL-1 addresses the discovery and treatment of prehistoric artifacts, and includes the requirement to develop a Monitoring and Treatment Plan. Implementation of Mitigation Measure CUL-1 would ensure that any adverse direct, indirect and cumulative impacts related to this resource does not occur. Therefore, the Proposed Action would not cause any adverse effects to historic properties.

Based on the cultural resources assessment for the Proposed Action (Appendix D), a finding of "no adverse effect to historic properties" under Section 106 of the NHPA has been determined by the Air Force. The SHPO concurred with this determination on June 14, 2022. The archaeological sensitivity of the APE has been identified as low based on the Proposed Action location and characteristics; however, there is always a possibility of encountering unanticipated archaeological resources during ground-disturbing activities. Standard conditions for the treatment of unanticipated discoveries are recommended. Archaeological and Native American monitoring may further minimize the likelihood of disturbing or otherwise impacting inadvertent discoveries of

cultural resources. Implementation of CUL-1 and CUL-2 would ensure that any potential direct, indirect and cumulative impacts for disturbance to inadvertent discoveries of cultural resources are not significant.

Paleontological Resources

The geologic deposits underlying the Proposed Action corridor (i.e., Quaternary older alluvium) have a high potential to contain paleontological resources. As such, ground-disturbing activities in previously undisturbed portions of the Proposed Action corridor could result in adverse impacts on paleontological resources. Impacts would be adverse if construction activities result in the destruction, damage, or loss of scientifically important paleontological resources and associated stratigraphic and paleontological data. Activities may include grading, excavation, drilling, or any other activity that disturbs the surface or subsurface geologic formations with a high paleontological sensitivity. Implementation of CUL-3 would ensure that any adverse direct, indirect and cumulative impacts are not significant.

Cumulative Effects

Given the minor impacts and required mitigation, the Proposed Action would not cause any significant cumulative effects to cultural resources or paleontological resources that are reasonably foreseeable taking into account those incremental effects of the action when added to the effects of other past, present and reasonably foreseeable actions as both the Proposed Action.

4.2.2 No Action Alternative

Under the No Action Alternative, no action-related changes would occur, and existing trends and conditions in the Proposed Action corridor would continue. The No Action Alternative would not result in ground disturbance on Edwards AFB, which would avoid potential direct and indirect impacts on cultural and paleontological resources on the base. However, if approved by Kern County, implementation of the No Action Alternative would likely result in the construction of the transmission line off base within privately owned lands, connecting to the existing Holgate Substation. A cultural resources survey has been conducted for the area that would be impacted by a transmission line located within privately owned lands. The results indicate that, similar to the Proposed Action, no NRHP-eligible cultural resources would be directly, indirectly or cumulatively impacted; however, measures for unanticipated discovery of cultural resources and human remains would be required. Historical resources within the gen-tie route to the Holgate Substation include P-15-000560, identified as a historic railroad, and P-15-017304, identified as a historic highway. Resource P-15-000560 is an old railroad bed and associated historic era refuse deposits on Edwards AFB. This resource was previously given an NRHP status code of 3B: Appears eligible for listing on the NRHP both individually and as a contributor to a NRHP eligible district through survey evaluation. Resource P-15-017304 is the historic period Twenty Mule Tam Road and State Route 58. Twenty Mule Team Road is a California Point of Historical Interest. However, avoidance of these sites is proposed as part of the construction of the Aratina Solar Project.

Similar to the Proposed Action, the No Action Alternative would not cause any direct, indirect, or cumulative significant changes to cultural and paleontological resources.

4.2.3 Avoidance and Mitigation Measures

Avoidance and mitigation measures to minimize and avoid potential direct, indirect and cumulative impacts on cultural and paleontological resources from the Proposed Action are listed in Table 4-3.

Table 4-3.

Cultural and Paleontological Resources Avoidance and Mitigation Measures

CUL-1	If any prehistoric or historic artifacts, or other indications of archaeological resources such as unusual deposits of stone, bone or shell, stone artifacts, or historic trash deposits or foundations are discovered once ground-disturbing activities are underway, the find(s) shall be immediately evaluated by a qualified archaeologist meeting Secretary of the Interior standards and directly reported to the Edwards AFB Cultural Resources Manager by the Applicant. All work shall comply with the Archaeological Resources Protection Act. Work may continue on other parts of the APE outside a 60-foot buffer from the unanticipated discovery. Additionally, the appropriate Native American representatives shall be contacted regarding any pre-contact and/or post-contact finds and be provided information after the archaeologist makes the initial assessment of the nature of the find, so as to provide Tribal input with regards to significance and treatment. If pre-contact and/or post-contact cultural resources that are potentially NRHP-eligible historic properties are discovered, and avoidance cannot be ensured, the Applicant's qualified archaeologist shall develop a Monitoring and Treatment Plan, the draft of which shall be provided to the Edwards AFB Cultural Resources Manager and the appropriate Native American representatives for review and comment. This Monitoring and Treatment Plan shall allow for a monitor to represent the appropriate Native American representatives for the work at the site of the discovery, should the appropriate Native American representatives elect to place a monitor on-site. The archaeologist shall monitor the remainder of the project activities and implement the Monitoring and Treatment Plan accordingly.
CUL-2	The discovery of human remains is always a possibility during ground-disturbing activities. If human remains are found, the State of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the county coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the county coroner must be notified immediately. If the human remains are determined to be prehistoric, the coroner shall notify the Native American Heritage Commission, which will determine and notify a most likely descendant. All work on Edwards Air Force Base shall comply with the requirements of NAGPRA.
CUL-3	The following mitigation shall address adverse impacts relating to the potential discovery of paleontological resources during construction of the Proposed Action. These measures shall

	apply to all phases of Proposed Action construction that involve excavations greater than 3 feet in depth: • **Develop a paleontological resources mitigation plan.** Prior to the commencement of ground-disturbing activities, a qualified professional paleontologist shall be retained to prepare and implement a paleontological resources mitigation plan for the Proposed Action. A qualified paleontologist is an individual that shall have at least a master's degree or equivalent work experience in paleontology, knowledge of the local paleontology, and be familiar with paleontological procedures and techniques. The paleontological resources mitigation plan shall describe mitigation recommendations in detail, including paleontological monitoring procedures; communication protocols to be followed in the event that an unanticipated fossil discovery is made during development of the Proposed Action; and preparation, curation, and reporting requirements. • **Paleontological WEAP.** Prior to the start of construction, the qualified paleontologist or his or her designee, shall conduct training for construction personnel regarding the appearance of fossils and the procedures for notifying paleontological staff should fossils be discovered by construction staff. The WEAP shall be fulfilled at the time of a preconstruction meeting. In the event a fossil is discovered by construction personnel anywhere in the Proposed Action corridor, all work in the immediate vicinity of the find shall cease, and a qualified paleontologist shall be contacted to evaluate the find before restarting work in the area. If it is determined that the fossil(s) is (are) scientifically significant, the qualified paleontologist shall complete the mitigation outlined below to mitigate impacts on significant fossil resources. • **Paleontological monitoring.** Initially, full-time monitoring shall be conducted during ground construction activities (i.e., grading, trenching, foundation work, and other excavations) within previously undisturbed Quaternary older alluvium and where ground disturbance exceeds 3 feet bgs within intact Holocene deposits. Monitoring shall be conducted by a qualified paleontological monitor. The duration and timing of the monitoring shall be determined by the qualified paleontologist and the location and extent of proposed ground disturbance. If the qualified paleontologist determines that full-time monitoring is no longer warranted, based on the specific geologic conditions at the surface or at depth, the qualified paleontologist may recommend that monitoring be reduced to periodic spot-checking or cease entirely. • **Fossil discovery, preparation, and curation.** If a paleontological resource is discovered, the monitor shall have the authority to temporarily divert the construction equipment around the find until it is assessed for scientific significance and collected. Typically, fossils can be safely salvaged quickly by a single paleontologist and not disrupt construction activity. In some cases, larger fossils (such as complete skeletons or large mammals) require more extensive excavation and longer salvage periods. In this case, the paleontologist should have the authority to temporarily direct, divert, or halt construction activity to ensure that the fossil(s) can be removed in a safe and timely manner.

	Once salvaged, significant fossils shall be identified to the lowest possible taxonomic level, prepared to a curation-ready condition, and curated in a scientific institution with a permanent paleontological collection (such as the Natural History Museum of Los Angeles County) along with all pertinent field notes, photos, data, and maps. The cost of curation is assessed by the repository and is the responsibility of the project Applicant/owner. • **Final paleontological mitigation report.** At the conclusion of laboratory work and museum curation, a final report shall be prepared describing the results of the paleontological mitigation monitoring efforts associated with the Proposed Action. The report shall include a summary of the field and laboratory methods, an overview of the Proposed Action geology and paleontology, a list of taxa recovered (if any), an analysis of fossils recovered (if any) and their scientific significance, and recommendations. The final report shall be submitted to the Edwards AFB. If the monitoring efforts produced fossils, then a copy of the report shall also be submitted to the designated museum repository.
CUL-4	During and subsequent to the project construction phase, any and all archaeological/cultural documents created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied by the Applicant to the Edwards AFB Cultural Resources Manager for dissemination consistent with applicable law.

Notes:
AFB=Air Force Base; APE=Area of Potential Effect; bgs=below ground surface; NAGPRA=Native American Graves Protection and Repatriation Act; NRHP=National Register of Historic Places; WEAP= worker environmental awareness program

4.3 GEOLOGY AND SOILS

4.3.1 Proposed Action Alternative

The Proposed Action is not traversed by any earthquake faults or otherwise unstable soils conditions. There would be no impact on life/safety concerns as a result of the Proposed Action.

The soils within the Proposed Action corridor are identified as having a high potential for soil loss due to wind erosion during construction and very high potential for soil loss due to sheet flow erosion. Construction activities would involve grading associated with creating or improving existing access roads and road spurs, preparing transmission tower erection sites and wire pulling sites, and trenching for placement of cable. Approximately 16 acres are anticipated to be temporarily disturbed as a result of construction activity, with approximately 9 acres anticipated to be permanently disturbed. Grading and vegetation removal has the potential to result in soil erosion within the Proposed Action corridor. Implementation of GEO-1, GEO-2, GEO-3, GEO-4, and AIR- 8 would ensure that no direct, indirect or cumulative impacts from the Proposed Action would occur.

Cumulative Effects

Given the negligible effects and proposed mitigation including to protect against soil erosion, the Proposed Action would not cause any significant cumulative effects to geology and soils that are reasonably foreseeable taking into account those incremental effects of the action when added to the effects of other past, present and reasonably foreseeable actions as both the Proposed Action.

4.3.2 No Action Alternative

Under the No Action Alternative, no action-related changes would occur, and existing trends and conditions in the Proposed Action corridor would continue. The No Action Alternative would not result in ground disturbance, which would avoid potential impacts related to geology and soils on the base. However, implementation of the No Action Alternative would likely result in the construction of the transmission line off base within privately owned lands, connecting to the existing Holgate Substation. Similar to the Proposed Action, there would be ground disturbance associated with the construction of the transmission line that would result in the potential for soil loss due to wind erosion during construction and very high potential for soil loss due to sheet flow erosion.

Similar to the Proposed Action, the No Action Alternative would not cause any direct, indirect, or cumulative significant changes to geology and soils.

4.3.3 Avoidance and Mitigation Measures

Avoidance and mitigation measures to minimize and avoid potential direct, indirect and cumulative impacts on geology and soils are listed in Table 4-4.

Table 4-4.

Geology and Soils Avoidance and Mitigation Measures

GEO-1	Prior to final design of the Alternative, a combined geotechnical engineering and engineering geology study shall be conducted by a qualified geologist/engineer to identify site-specific geologic conditions and potential geologic hazards in sufficient detail to support sound engineering. Appropriate mitigations for identified geological hazards shall be identified in the geotechnical study.
GEO-2	A construction SWPPP shall be prepared and implemented prior to the commencement of soil disturbance activities associated with construction.
GEO-3	Nonhazardous dust suppression palliatives, approved by Edwards AFB, and water shall be used on an as-needed basis to suppress wind-blown dust generated at the site during construction. Dust suppression palliatives are materials that work by either agglomerating the fine particles, adhering/binding the surface particles together, or increasing the density of the surface material.

GEO-4	Erosion control measures shall be implemented during construction, including stabilization of construction areas, employing a concrete wash out area, as needed, and tire washes near the entrance to existing roadways.
GEO-5	Silt fences shall be used for erosion control.
AIR-8	See Table 4-2

Notes:

AFB=Air Force Base; SWPPP=stormwater pollution prevention plan

4.4 HAZARDOUS MATERIALS AND HAZARDOUS WASTE

4.4.1 Proposed Action Alternative

The Proposed Action would involve the use and transport of small quantities of hazardous materials. While the overall risk is relatively low, there is the potential that hazardous materials (e.g., oil, fuels) could spill or leak during construction activity. Implementation of HAZ-1 will ensure that potential impacts are not significant.

UXO and/or munitions debris. The potential presence for UXO and/or munitions debris is considered a REC. Transmission line construction planning and ground-disturbance work should proceed under the consultation and guidance of Edwards AFB. Implementation of HAZ-2 will ensure that potential impacts are not significant.

Underground natural gas pipelines. At least one underground natural gas pipeline runs through the Proposed Action corridor (in the northeastern portion of the corridor). As currently proposed, the Proposed Action would maintain existing infrastructure in-place, and pipelines would not be disturbed. Because various leak-identification systems are in-place for such pipelines, it is unlikely that any leakage has occurred. Therefore, the presence of the pipeline facilities is not considered a REC. 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. Implementation of HAZ-3 will ensure that potential impacts are less than significant.

Water wells. One monitoring well was observed within the western portion of the Proposed Action corridor. As currently planned, this well would not be disturbed during construction activities. No impact to the water well will occur.

ERP Site 438. The information obtained during the investigation of ERP Site 438 was summarized in an NFI letter submitted by the Department of the Air Force to the RWQCB, DTSC, and USEPA. The NFI letter was signed by each of the agencies indicating their concurrence with the finding that no further investigation was necessary. Given the NFI issued by three environmental agencies, no further investigation of this issue is recommended, and no impact is anticipated.

Radon gas, asbestos, and lead-based paint. There is the potential that underground utilities are coated or wrapped with ACM; however, as currently proposed, existing utilities would be avoided. The presence of radon

and lead-based paint is unlikely. HAZ-4 requires Edwards AFB be contacted to determine the appropriate course of action should asbestos, radon, or lead-based paint be encountered during construction.

Cumulative Effects

Impacts regarding the handling, use, and/or storage of hazardous materials would be project and location specific and would not cumulatively contribute to impacts. Conformance with existing State and County regulations, as well as project safety design features and the implementation of mitigation measures would further reduce the potential for cumulative impacts. In addition, implementation of appropriate safety measures during construction of the Proposed Action would reduce the impact to a level that would not contribute to cumulative effects. No wildfire safety hazard has been identified associated with the Proposed Action. Given the minimal risks of hazards at the project site, cumulative impacts are unlikely to occur. Therefore, impacts would not be cumulatively significant.

4.4.2 No Action Alternative

Under the No Action Alternative, potential impacts associated with encountering hazardous materials on Edwards AFB would not occur, as the transmission line would not be constructed within the base. The No Action Alternative would involve construction of a transmission line on private lands north of SR 58 and connect from the proposed Aratina Solar Project to the Holgate Substation. There are no known hazardous materials or substances located within the No Action Alternative alignment; therefore, impacts would not be expected to occur under this alternative.

As with the Proposed Action, the No Action Alternative would not cause any direct, indirect, or cumulative significant changes to hazardous materials and hazardous waste.

4.4.3 Avoidance and Mitigation Measures

Avoidance and mitigation measures to minimize and avoid potential direct, indirect and cumulative impacts on hazardous materials and hazardous waste from the Proposed Project are listed in Table 4-5.

Table 4-5.

Hazardous Materials and Hazardous Waste Avoidance and Mitigation Measures

HAZ-1	Prior to construction activities, a health and safety plan in compliance with 29 CFR Part 1910.120 shall be prepared and approved by Edwards AFB. The site-specific health and safety plan shall address all site-specific safety and environmental hazards that have the potential to be encountered during construction of the Proposed Action, including physical hazards, biological hazards, and general safety hazards. Any training required by construction personnel shall be identified.
HAZ-2	Construction planning and eventual ground-disturbance work shall proceed under the consultation and guidance of Edwards AFB.
HAZ-3	Underground pipeline located within the Proposed Action corridor shall remain in-place as part of construction of the Proposed Action. However, civil engineers shall be contacted to determine, and confirm, the locations of the underground pipeline and the required easements prior to any ground disturbance.
HAZ-4	Edwards AFB shall be contacted to determine the appropriate course of action should asbestos, radon, or lead-based paint be encountered during construction.

Notes:

AFB=Air Force Base; CFR=Code of Federal Regulations; UXO=unexploded ordinance

4.5 NATURAL RESOURCES

4.5.1 Proposed Action Alternative

Special-Status Wildlife Species

Desert Tortoise

No desert tortoise sign was detected during wildlife surveys for the Proposed Action corridor. However, the Proposed Action corridor is located in designated desert tortoise critical habitat. The Proposed Action area is located within both desert tortoise critical habitat (85%) and outside desert tortoise critical habitat (15%). Construction activities (e.g., vegetation removal and grading) associated with the Proposed Action would result in permanent and temporary impacts on suitable desert tortoise habitat. The entire Proposed Action corridor was determined to support suitable desert tortoise habitat; therefore, it is assumed that all areas impacted by the Proposed Action support suitable desert tortoise habitat.

Although no desert tortoise has been detected within the Proposed Action corridor, there is the potential for direct impacts. Direct impacts during construction, operation, and maintenance would include disturbance, injury, or mortality of desert tortoise individuals. Disturbance, injury, or mortality may result from individuals becoming trapped within open trenches, individuals being crushed or buried in their burrows, noise and/or vibration from heavy equipment, increased human presence/activity, and vehicle strike. Desert tortoise may also

die or become injured when captured for relocation purposes, particularly during extreme temperatures or if they void their bladders. Pathogens may also be spread among desert tortoise. For desert tortoises near but not within the Proposed Action corridor, removal of habitat within an individual's home range could result in displacement stress that could result in loss of health, exposure, increased risk of predation, increased intraspecific competition, and death.

Indirect impacts on desert tortoise could also occur from increased common raven presence associated with the construction of new elevated perching and nesting sites (e.g., transmission line structures). Development of new elevated perching and nesting sites could increase local raven numbers, which could result in increased predation on desert tortoise in the Proposed Action corridor and vicinity. Additionally, garbage, road-killed animals, and water from increased human presence could attract common ravens and other desert tortoise predators such as coyotes and feral dogs.

Indirect effects could also result from potential introduction of invasive plants or increased incidence of accidental wildfires (caused by equipment or downed lines), both of which could reduce adjacent habitat quality, diminish valuable forage, and impede movement of desert tortoise. Potential deposition of sediment loads during heavy rain events and flooding could potentially affect existing desert tortoise burrows in the Proposed Action corridor.

Potential direct and indirect impacts on desert tortoise would be avoided and minimized through implementation of NAT-1 through NAT-18. As noted previously, the USFWS does not recommend that the project Applicant apply for an incidental take permit. With implementation of these mitigation measures, no direct and indirect impact on desert tortoise would occur.

The Biological Opinion for Operations and Activities at Edwards Air Force Base, California (8-8-14-F-14) dated 11 March 2014 covers utility construction and maintenance activities. The Proposed Action's potential direct and indirect impacts on the desert tortoise are covered by the biological opinion. Pursuant to the biological opinion, the Air Force has determined the Proposed Action is not likely to adversely affect the desert tortoise or its critical habitat. The Air Force maintains an appropriate record supporting this determination.

Burrowing Owl

No burrowing owl or sign of burrowing owl was detected during species surveys of the Proposed Action corridor. If burrowing owl is present, direct impacts during construction and operation of the Proposed Action may include disturbance, injury, or mortality of individuals. Disturbance, injury, or mortality may result from individuals being crushed or buried in their burrows, noise and/or vibration from heavy equipment, increased human presence/activity, vehicle strikes, and encounters with pets belonging to visitors. In addition, burrowing owls potentially occupying the Proposed Action corridor may be injured or killed by collisions with or electrocution by overhead transmission wires.

Potential indirect impacts on burrowing owl, if present, could result from increased predation pressure from other raptors associated with the construction of new elevated perching and nesting sites (e.g., transmission line structures). Development of new elevated perching and nesting sites could increase raptor numbers locally, which could result in increased predation on burrowing owl in the Proposed Action corridor and vicinity. Additionally, garbage, road-killed animals, and water from increased human presence could attract raptors and other predators of burrowing owl such as coyotes and feral dogs.

Indirect effects could also result from potential introduction of invasive plants or increased incidence of accidental wildfires (caused by equipment or downed lines), both of which could reduce adjacent habitat quality for burrowing owl. Potential deposition of sediment loads during heavy rain events and flooding could potentially affect burrows in the Proposed Action corridor.

Potential direct and indirect impacts on burrowing owl would be avoided and minimized through implementation of NAT-1 through NAT-18. The Applicant would comply with Avian Power Line Interaction Committee (APLIC; 2012) guidelines for preventing avian electrocutions and collisions with overhead power lines to avoid and minimize impacts on burrowing owl and other avian species. With implementation of these mitigation measures, no direct or indirect impact on burrowing owl would occur.

Mohave Ground Squirrel

The Proposed Action corridor is identified as within the geographic range of MGS, and there are multiple records of this species being trapped and identified during surveys within the area. The current CNDDB contains multiple records of MGS in the general vicinity of the Proposed Action.

Given the intact nature of the vegetation communities, limited human disturbances, the appropriate soil types for burrow construction, and the availability of forage and cover from predators and weather events, the Proposed Action corridor could support an MGS population.

Direct impacts on MGS during construction, operation, and maintenance of the Proposed Action may include disturbance, injury, or mortality of MGS individuals. Disturbance, injury, or mortality may result from individuals becoming trapped within open trenches, individuals being crushed or buried in their burrows, noise and/or vibration from heavy equipment, increased human presence/activity, vehicle strikes, and encounters with pets belonging to visitors.

Potential indirect impacts on MGS, if present, could result from increased predation pressure from common ravens and raptors associated with the construction of new elevated perching and nesting sites (e.g., transmission line structures). Development of new elevated perching and nesting sites could increase raven and raptor numbers locally, which could result in increased predation on MGS in the Proposed Action corridor and vicinity. Additionally, garbage, road-killed animals, and water from increased human presence could attract common ravens, raptors, and other predators of ground squirrels such as coyotes and feral dogs.

Indirect effects could also result from potential introduction of invasive plants or increased incidence of accidental wildfires (caused by equipment or downed lines), both of which could reduce adjacent habitat quality, diminish valuable forage, and impede movement of MGS. Potential deposition of sediment loads during heavy rain events and flooding could potentially affect potential MGS burrows in the Proposed Action corridor.

Potential direct and indirect impacts on MGS would be avoided and minimized through implementation of NAT-1 through NAT-18. With implementation of these mitigation measures, no impact on MGS would occur.

Desert Kit Fox

One inactive desert kit fox den was located during the species survey for the Proposed Action. There was no evidence of recent use of any of the four entrances. The desert kit fox has the potential to be present within the Proposed Action corridor. Potential direct and indirect impacts on desert kit fox would be avoided and minimized through implementation of NAT-1 through NAT-18.

Special-Status Plant Species

Western Joshua Tree

The western Joshua tree was declared a State Candidate Species by the California Department of Fish and Wildlife on September 24, 2020. Surface impacts from a transmission line are generally limited to a small fraction of the total corridor and includes tower sites, access roads, tensioning and pull sites, and staging areas. At this point, only the preliminary planned locations for the tower sites are known. The location of western Joshua trees was cross-referenced with these tower site locations, and no overlap was noted. In general, there is enough flexibility in the engineering of a transmission line such that avoidance of all western Joshua trees can be accomplished. With implementation of avoidance and mitigation measures, no direct impact on western Joshua tree would occur.

Migratory Birds

Potential impacts on other raptor species and migratory birds protected by the Migratory Bird Treaty Act (MBTA) include removal of nesting and/or foraging habitat during construction of the Proposed Action. The degree of impact on individual raptor and migratory bird species would vary depending on species-specific behaviors in the Proposed Action corridor and habitat requirements. Potential impacts on raptor and migratory bird nest sites would be more detrimental relative to impacts on foraging habitat for such species. Direct impacts on tree or cliff raptor nest sites are not expected, given that these features are generally absent from the Proposed Action corridor; however, nest sites for ground-nesting raptors may be directly impacted during construction of the Proposed Action.

Potential direct impacts on other raptor species and migratory birds also include potential injury or mortality. Injury or mortality may occur during construction if individuals are struck by equipment or vehicles. Injury or

mortality to avian species resulting from construction most frequently occurs during vegetation management and involves eggs, nestlings, and recently fledged young that cannot safely avoid equipment. Injury or mortality may also result from collisions or electrocution with overhead transmission wires. Avian power line collisions are a widespread problem with potentially adverse local impacts when high-risk conditions are present (Air Force 2016). The level of risk depends on a combination of biological and physical factors such as weather, design, and placement of transmission structures, as well as species-specific behavior.

Potential indirect impacts on raptors and migratory birds include increased noise levels, human use and the potential for long-term unauthorized trespass, erosion, sedimentation, stormwater contaminant runoff, and risk of fire, as well as the potential introduction and proliferation of invasive non-native plant species. These impacts have the potential to degrade raptor and migratory bird habitat and alter breeding, foraging, and migratory behaviors.

Potential indirect impacts on other raptors and migratory birds would be avoided and minimized through implementation of NAT-1, NAT-4, and NAT-11. Additionally, the Applicant would comply with APLIC (APLIC 2012) guidelines for preventing avian electrocutions and collisions with overhead power lines to avoid and minimize impacts on raptors, burrowing owl, migratory birds, and other avian species. With implementation of these avoidance and mitigation measures, no significant impact on migratory birds would occur.

Other Special-Status Species

There were three observations of common raven (*Corvus corax*) nests on the cross beams of three of structures of the existing transmission line. Ravens are not a special-status species but are granted protection, like many bird species, under the MBTA (Appendix F). This protection is extended to their nests and eggs. With implementation of avoidance and mitigation measures, no significant direct or indirect impact on these special-status species would occur.

Non-Special-Status Plant and Animal Species

Impacts on non-special-status species would not be considered adverse.

Cumulative Effects

Overall, the Proposed Action would not contribute to cumulative impacts to biological resources due to the minimal ground disturbance, the short construction timeframe, and the limited vehicle and equipment use required for construction of the gen-tie line. Additionally, no significant cumulative impacts are expected to occur to adjacent areas during the operational phase of the Proposed Action; therefore, the operation of the project would not contribute to cumulative impacts to biological resources in the region.

4.5.2 No Action Alternative

Under the No Action Alternative, no action-related changes would occur, and existing trends and conditions in the Proposed Action corridor would continue. The No Action Alternative would not result in ground disturbance directly within Edwards AFB, which would avoid potential direct and indirect impacts on natural resources on the base. However, implementation of the No Action Alternative would likely result in the construction of the transmission line off base within privately owned lands, connecting to the existing Holgate Substation. Natural resources located within the transmission line corridor traversing private lands is similar to those associated with the Proposed Action. Resources potentially impacted by the No Action Alternative include temporary and permanent impacts on Mojave Creosote Bush Shrubland, containing creosote bush and white bursage, and Mojave Desert Saltbush Shrubland, containing spinescale and allscale. Similar to the Proposed Action, the No Action Alternative would potentially impact western burrowing owl, desert tortoise, San Joaquin kit fox, and MGS; however, based on biological surveys, no live western burrowing owl, desert tortoise, or San Joaquin kit fox were observed, although sign of these species were detected. It is assumed that MGS is present based on suitable habitat for this species. Measures to minimize impacts on natural resources would be required to minimize direct and indirect impacts, as identified in Table 4-6. Consultation with USFWS would be anticipated specifically with respect to the desert tortoise. Direct and indirect impacts on non-special-status species would not be considered adverse.

As with the Proposed Action, the No Action Alternative would not cause any direct, indirect or cumulative significant changes to natural resources.

4.5.3 Avoidance and Mitigation Measures

Avoidance and mitigation measures to minimize and avoid potential direct, indirect and cumulative impacts on natural resources are listed in Table 4-6.

Table 4-6.

Natural Resources Avoidance and Mitigation Measures

NAT-1	A WEAP shall be provided to all individuals that will be working on the Proposed Action in the field. This program may consist of videos, brochures, and briefings and shall include information on: 1. The role of biological monitors and authority of monitors to stop work 2. Locally known invasive weeds and limiting weed spread and colonization 3. The MBTA and nest-avoidance measures 4. Special-status species present or potentially present within the corridor

	5. Desert tortoise history in the Proposed Action corridor, desert tortoise ecology, threats to the species, and the protection measures described here and in the Biological Opinion (USFWS 2014) 6. MGS history in the Proposed Action corridor, ecology, and the avoidance and mitigation measures described in this section for this species 7. Other sensitive species that may be found throughout the construction of the Proposed Action and the avoidance and mitigation measures described in this section for these species 8. Locations and designations of critical habitat and Desert Wildlife Management Area in the Proposed Action corridor All personnel shall sign a statement that they have received, understand, and will follow the regulations and protection measures presented in the program. Copies of signed statements shall be on file at the Environmental Management Office. This measure fulfills or exceeds the requirements in the Biological Opinion (USFWS 2014).
NAT-2	All vehicles and equipment shall be washed prior to bringing them on site if they have been used in areas off-base.
NAT-3	All Proposed Action-related construction activities shall be conducted during daylight hours. If any activities are to disturb native habitat between dusk and dawn, they shall be limited to areas that have already been cleared of desert tortoises and other sensitive species by biological monitors and enclosed by a fence to exclude desert tortoises (USFWS 2014).
NAT-4	Qualified biological monitors shall be present during all construction-related activities to confirm avoidance and mitigation of all biological resources is being conducted to the maximum extent practicable. These measures include the following: 1. Biological monitors shall be available during site development activities, which may result in injury or mortality of desert tortoises. The authorized biologist shall determine which activities require biological monitoring (an authorized biologist shall be approved by the Natural Resource Manager and USFWS to act as authorized biologist in implementing terms and conditions of the Biological Opinion (USFWS 2014). Desert tortoise monitors shall be approved by authorized biologist (USFWS 2014). 2. Any desert tortoises found in harm's way during construction-related activities may be relocated by a desert tortoise monitor to a nearby safe area preselected by the authorized biologist, or the desert tortoise monitor can maintain the desert tortoise in their immediate possession until an authorized biologist assumes care of the animal. 3. When handling desert tortoises, the authorized biologists and desert tortoise monitors shall follow the procedures described in *Guidelines for Handling Desert Tortoises During Construction Projects* (Desert Tortoise Council 1996).

	4. Only authorized biologists, as defined by USFWS, and desert tortoise monitors directly supervised by an authorized biologist, shall conduct preconstruction surveys for desert tortoises. 5. The Applicant shall employ the services of a qualified biologist if the Applicant plans to install, repair, maintain, or remove a utility during nesting season (1 February through 30 August).
NAT-5	Disturbance areas shall be limited during construction to the minimum needed to perform activities. During construction, activity areas shall be clearly fenced, marked, and flagged at the outer boundaries to define the limits of work areas. Installation of fencing along roadways shall be implemented in areas deemed hazardous to desert tortoise to prevent injury or mortality. All workers shall be instructed to confine their activities to the marked areas (USFWS 2014).
NAT-6	Laydown, parking, and staging areas shall be restricted to previously disturbed areas to the maximum extent practicable (USFWS 2014).
NAT-7	Vehicles shall, to the maximum extent practicable, remain on established roads. Equipment and vehicle operators shall be alert for desert tortoises and other wildlife in and along access routes. When traveling off road, speed limits shall not exceed 5 miles per hour, the route shall first be surveyed/flagged by an authorized biologist, and shrubs shall be avoided as much as possible. Speed limits on dirt roads within the Proposed Action corridor shall be less than 20 miles per hour unless otherwise posted.
NAT-8	All personnel on the site shall check under parked vehicles and equipment for desert tortoises and other wildlife species before moving vehicles. If a desert tortoise is discovered under a parked vehicle, an authorized biologist shall relocate the animal to a nearby, safe location. The authorized biologist shall use his or her best professional judgment to ensure that desert tortoises moved in this manner are not subjected to temperature extremes, which could result in injury or death. Alternatively, the vehicle shall be left in place until the desert tortoise moves of its own volition (USFWS 2014).
NAT-9	All trash shall be placed in closed and covered containers for proper disposal to reduce its attractiveness to desert tortoise predators (e.g., coyotes and common ravens). The containers shall not be able to be opened by predators and shall be emptied regularly to ensure adequate capacity is maintained. Water tanks and trucks shall be maintained in good working order and free of leaks so common ravens and other predators will not be attracted to standing water (USFWS 2014).
NAT-10	If common raven presence increases locally as a result of the Proposed Action, perch deterrents shall be placed on structures that are supporting perching (USFWS 2014).
NAT-11	Preconstruction surveys shall be conducted by an authorized biologist or the desert tortoise monitor immediately in front of all equipment. During these surveys, the desert tortoise monitor shall identify the following resources and complete the following activities:

	1. Identify active nests that fall under the MBTA and flag an avoidance area for each nest at a minimum of 50 meters from the nest. 2. Identify rare plant species occurrence. Avoid rare plant species locations whenever possible. 3. Identify potential desert tortoise burrows and flag for avoidance, if possible, at a minimum distance of 10 meters to avoid any activities affecting the burrow or any individuals underground. If avoidance of desert tortoise burrows is not possible, individual burrows shall be scoped to determine if there is an animal underground. If no tortoise is using the burrow, the burrow shall be excavated by an authorized biologist or a directly supervised desert tortoise monitor according to the *Guidelines for Handling Desert Tortoises During Construction Projects* (Desert Tortoise Council 1996). 4. Avoid the desert tortoise. However, if avoidance is not possible, individuals found above-ground within the Proposed Action corridor shall be temporarily moved out of harm's way by an authorized biologist according to the *Guidelines for Handling Desert Tortoises During Construction Projects* (Desert Tortoise Council 1996). Desert tortoises shall not be released more than 100 meters from the point of capture (USFWS 2014).
NAT-12	All Proposed Action personnel shall immediately report sightings of desert tortoises and other sensitive species and their burrows found within the Proposed Action corridor to the desert tortoise monitor.
NAT-13	Aboveground utilities lines shall be placed at least 18 inches aboveground when they traverse desert tortoise habitat. If at any time after installation, the height of the gas pipes above the ground has been reduced to less than 18 inches, the pipelines shall either be raised or the materials causing the reduction shall be removed (USFWS 2014).
NAT-14	Underground utilities shall be located adjacent to or within previously disturbed areas when possible (USFWS 2014).
NAT-15	Lands above utilities shall be revegetated unless a road needs to be constructed and maintained for access and maintenance activities. Roads needed for utility maintenance shall be concentrated in previously established corridors when possible (USFWS 2014).
NAT-16	Habitat restoration in the form of revegetation shall be implemented, as follows, as required: 1. Habitat restoration for ground disturbance shall include techniques to control soil erosion that have been proven successful in the desert environment and shall include the use of native plants and seeds to mimic natural biodiversity. 2. Habitat restoration activities shall be conducted in accordance with the *Edwards Air Force Base Revegetation Plan* prepared by Edwards AFB (Air Force 1994; Air Force 2012).

	3. Monitoring success of efforts shall be implemented for a longer period than the standard 5-year monitoring period due to slow recovery rates of revegetation areas in the desert.
NAT-17	Open excavations shall be checked three times per day, and authorized personnel shall remove any trapped animals. Open excavations shall be covered, backfilled, or fenced at the end of each workday unless other methods of excluding desert tortoises ae employed. At the ends of a ditch or trench, a 3:1 slope shall be created to allow wildlife to exit should they become trapped (USFWS 2014).
NAT-18	Any pipes left or stored on the ground in the Proposed Action corridor shall be capped on both ends to prevent entry by desert tortoises or other wildlife (USFWS 2014).

Notes:
AFB=Air Force Base; MBTA=Migratory Bird Treaty Act; MGS=Mohave ground squirrel; USFWS=United States Fish and Wildlife Service; WEAP=worker environmental awareness program

4.6 WATER RESOURCES

To evaluate the Proposed Action impacts on surface water resources, a review was conducted of previously completed investigations associated with the playa lake beds and surface water. The Proposed Action was reviewed related to potential impacts on water quality due to ephemeral drainages, as well as potential flooding hazards.

4.6.1 Proposed Action Alternative

The Proposed Action corridor does not traverse any floodplains or flood hazard areas. Development of the Proposed Action would not result in an increase in groundwater withdrawal at Edwards AFB. Therefore, the Proposed Action would not substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level.

According to the CDWR online GICIMA, groundwater in the area of the property is approximately 170 feet bgs, or deeper, and generally flows northwest (CDWR 2019). Development of the Proposed Action would not result in an increase in groundwater withdrawal at Edwards AFB. Therefore, the Proposed Action would not substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level.

The Proposed Action corridor is crossed by several unnamed ephemeral drainages; therefore, construction of the Proposed Action has the potential to increase sediment due to stormwater movement of disturbed sediments within the construction area. The project will require the implementation of a SWPPP in support of a National Pollutant Discharge Elimination System permit in connection with construction activities. Implementation of a SWPPP will ensure protection of downstream water quality, as sediment erosion will be controlled and sediment movement from the Proposed Action during construction will be minimized. Compliance with the SWPPP will ensure this potential direct and indirect impact is not significant. In addition, the Applicant shall design a storm water management system so storm water discharges do not exceed the 95th percentile storm in adherence with the Energy Independence and Security Act. Under 42 U.S.C. § 17094, EISA requires federal agencies to establish storm water design requirements for construction projects that disturb a footprint greater than 5,000 ft^2 of land in order to maintain or restore the property to its pre-development hydrology state.

Cumulative Effects

Due to its neglible impacts, the Proposed Action will not have a significant cumulative impact on groundwater resources. The Proposed Action's impacts to water quality during construction would be minimized through implementation of SWPPP and compliance under 42 U.S.C. § 17094. As a result, cumulative impacts related to the alteration of drainage patterns and subsequent erosion, sedimentation, and flooding would be less than significant.

4.6.2 No Action Alternative

Similar to the Proposed Action, construction of a transmission line on private lands under the No Action Alternative would result in the potential for increasing sediment due to stormwater movement of disturbed sediments within the construction area.

As with the Proposed Action, the No Action Alternative would not cause any direct, indirect, or cumulative significant changes to water resources.

4.6.3 Avoidance and Mitigation Measures

No avoidance and mitigation measures are required related to water resources.

4.7 UNAVOIDABLE ADVERSE IMPACTS

4.7.1 Air Quality and Greenhouse Gases

Emissions resulting from construction equipment and vehicles would be below established significance and *de minimis* thresholds and would meet all local, state, and federal regulations. Therefore, no unavoidable adverse air quality effects would occur as a result of the implementation of the Proposed Action. The Proposed Action

would have a beneficial impact, as it would convey renewable energy to the electric grid, which would replace fossil fuel-based electricity generation, thereby reducing GHGs and criteria pollutant emissions.

4.7.2 Cultural and Paleontological Resources

No NRHP-eligible cultural resources have been identified within the Proposed Action APE; therefore, there are no unavoidable adverse impacts on cultural resources anticipated as a result of implementation of the Proposed Action. Potential impacts associated with inadvertent discovery of cultural resources identified for the Proposed Action on cultural resources can be mitigated (e.g., avoidance; selective placement of above-ground utility poles; placement of underground utility or fiber optic lines).

4.7.3 Geology and Soils

No unavoidable adverse impacts from the proposed undertaking of geologic and soils would occur. Mitigation incorporated into the Proposed Action design will ensure that impacts are not significant.

4.7.4 Hazardous Materials and Hazardous Waste

No unavoidable adverse impacts from the proposed undertaking of hazardous materials or hazardous waste would occur.

4.7.5 Natural Resources

It is anticipated that the potential impacts identified for the Proposed Action on natural resources could be mitigated (e.g., avoidance; selective placement of above-ground utility poles; placement of underground utility or fiber optic lines) because natural resources surveys of the Proposed Action corridor did not indicate the presence of sensitive wildlife or plant species. All potential impacts on natural resources associated with the proposed utility corridors would not be significant.

4.7.6 Water Resources

For water resources, the primary concerns associated with the Proposed Action are impacts on water quality during construction activities. The Proposed Action corridor is not located within a floodplain. Water quality best management practices are required by the NPDES permit and corresponding SWPPP, which will minimize effects of the Proposed Action to water quality and no unavoidable adverse or significant impacts would occur.

4.8 SHORT-TERM VERSUS LONG-TERM PRODUCTIVITY OF THE ENVIRONMENT

Examples of short-term uses of the environment include construction-related disturbances and impacts associated with an increase in population and activity that occurs over a period typically less than 5 years.

Long-term uses of the environment include impacts occurring over a period of more than 5 years, including permanent resource loss.

In the short term, the Proposed Action would result in minor, temporary, construction-related disturbances, but the Proposed Action would not result in an increase in population in the area on a long-term basis.

4.8.1 Air Quality and Greenhouse Gases

Short-term air quality emissions would result from dust and construction equipment and vehicles. However, such emissions would be below established significance and *de minimis* thresholds and would meet all local, state, and federal regulations. No long-term impacts would occur with the implementation of avoidance and mitigation measures described in Section 4.1.

4.8.2 Cultural and Paleontological Resources

In accordance with Section 102 of NEPA, all archaeological field studies, data recovery, and analyses associated with the Proposed Action would contribute to the present level of professional knowledge about cultural resources. However, no NRHP-eligible sites would be impacted with implementation of the Proposed Action.

With respect to paleontological resources, should any resources be encountered during construction activities, documentation for paleontological resources in this area of the Antelope Valley would contribute to the greater understanding of fossil remains. Because the depth of excavation and amount of ground disturbance associated with the Proposed Action is relatively limited, if paleontological resources are encountered, the Proposed Action would affect only a small percentage of paleontological resources and create no significant long-term loss of potential for exploration and recovery of these resources.

4.8.3 Geology and Soils

Regional seismic hazards have the potential to affect geologic resources in the short and the long terms. Temporary, minor, adverse impacts on soils would occur in the short term due to clearing and vegetation removal associated with the construction of the Proposed Action. With appropriate mitigation, including adherence to appropriate soils erosion control requirements, the Proposed Action would not result in short-term or long-term impacts on geologic or soil resources.

4.8.4 Hazardous Materials and Hazardous Waste

Short-term adverse impacts may result from the use of hazardous materials and subsequent disposal of hazardous waste during the construction of the Proposed Action. The disposal of hazardous waste could result in potential impacts on the environment, as well the health and safety of personnel, if it is not properly handled. Compliance with all applicable federal, state, and local laws and regulations addressing hazardous material and waste management is required and would ensure proper handling, storage, and disposal of hazardous materials and

wastes, which would ensure the hazardous material and waste impacts are not significant. Implementation of avoidance and mitigation measures with respect to potential presence of hazards within the corridor would ensure impacts are not significant.

4.8.5 Natural Resources

In the short term, the Proposed Action would result in minor, temporary, construction-related disturbances to the natural resources in the Proposed Action corridor. In the long term, there would be no changes in productivity of the habitats on Edwards AFB or in the surrounding areas. It is anticipated that the Proposed Action would affect only a small percentage of natural resources in the area and would not create significant long-term loss of such resources, as no sensitive species are anticipated to be impacted with implementation of the Proposed Action. With appropriate mitigation, the Proposed Action would not result in significant short-term or long-term impacts on natural resources at Edwards AFB or the surrounding area.

4.8.6 Water Resources

Construction of the Proposed Action would not cause any changes in use at Edwards AFB; therefore, there would be no long-term impacts on water resources, including water use, groundwater use, and floodplains or flood hazards. With appropriate mitigation, the proposed undertaking would not result in short-term or long-term impacts on water quality due to soil erosion. Because the Proposed Action is not located within a floodplain, there would be no short-term or long-term effects related to floodplains.

4.9 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

In accordance with NEPA (40 CFR Part 1502.16), this section includes a discussion of any irreversible and irretrievable commitment of resources associated with the Proposed Action. Irreversible and irretrievable resource commitments are related to the use of nonrenewable resources and the effects that the use of those resources will have on future generations.

Irreversible effects primarily result from the use or destruction of a specific resource (e.g., energy and minerals) that cannot be replaced within a reasonable time frame. Irretrievable resource commitments involve the loss in value of an affected resource that cannot be restored as a result of implementing an action (e.g., extinction of a rare or threatened species or the disturbance of an important cultural resource site). There would be no irreversible or irretrievable commitment of resources for any of the environmental resources analyzed in this EA. Biological and water resources are also discussed here but are unlikely to result in the irreversible or irretrievable commitment of resources if appropriate mitigation measures are implemented, as no sensitive species were identified within the Proposed Action corridor.

All previously unevaluated archaeological sites were evaluated for inclusion to the NRHP, and all sites potentially affected by the Proposed Action are identified as ineligible for listing on the NRHP. Mitigation is

proposed to address potential inadvertent discovery during construction. Native American resources, once destroyed or altered, cannot be replaced; any loss of sacred sites or traditional cultural properties would be considered irreversible and irretrievable.

For natural resources, development of the Proposed Action would result in short-term effects associated with construction and long-term effects associated with utility maintenance and access road construction. With proper mitigation, both temporary and permanent effects can be mitigated such that there would be no irreversible or irretrievable commitment of natural resources.

For water resources, the primary concern associated with the Proposed Action is impacts on water quality during development-related construction activities. No portion of the Proposed Action corridor is located within a floodplain. No irreversible or irretrievable commitment of water resources are anticipated.

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6.0 LIST OF AGENCIES AND ORGANIZATIONS TO WHOM COPIES OF THE ENVIRONMENTAL ASSESSMENT ARE SENT

California State Clearinghouse Office of Planning and Research PO Box 3044 Sacramento, CA 95812-3044	US Department of the Interior Fish and Wildlife Service, Carlsbad Field Office 2177 Salk Ave #250 Carlsbad, CA 92008
AFTC Technical Library 812 TSS/ENTL Edwards AFB, CA 93524	California Department of Fish and Wildlife 1416 Ninth Street Sacramento, CA 95814
Edwards Base Library 412 FSS/FSDL 5 West Yeager Blvd., Building 2665 Edwards AFB, CA 93524	Chemehuevi Indian Tribe 1990 Palo Verde Drive PO Box 1976 Havasu Lake CA 92363
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8.0 ACRONYMS AND ABBREVIATIONS

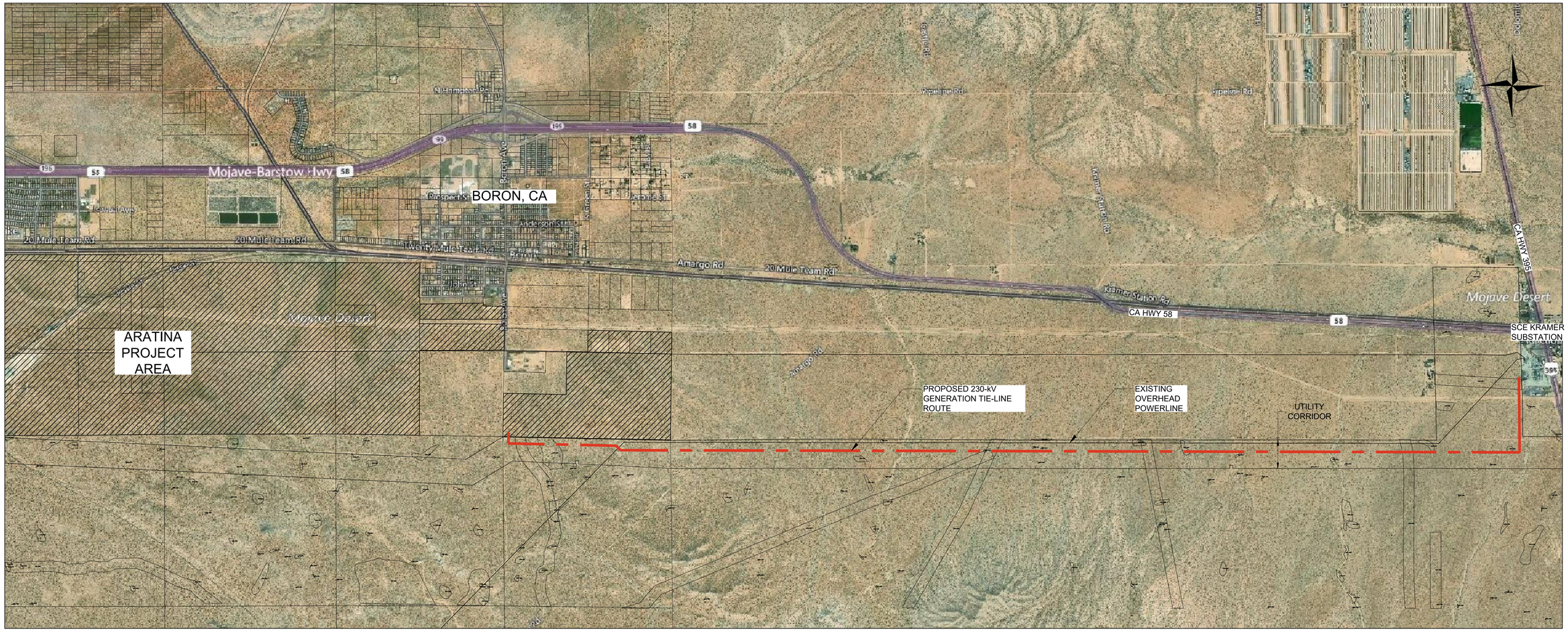
AAM	annual arithmetic mean
ACEC	Area of Critical Environmental Concern
ACM	asbestos-containing material
ADP	Area Development Plan
AFB	Air Force Base
AFMAN	Air Force Manual
Air Force	United States Air Force
APE	Area of Potential Effect
APLIC	Avian Power Line Interaction Committee
AQIA	air quality impacts analysis
AVAQMD	Antelope Valley Air Quality Management District
bgs	below ground surface
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
Cal-EPA	California Environmental Protection Agency
CalOSHA	California Occupational Safety and Health Administration
CARB	California Air Resources Board
CCR	California Code of Regulations
CDWR	California Department of Water Resources
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR	Code of Federal Regulations
CH_4	methane
CNDDB	California Natural Diversity Database
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
CSD	Community Service District
DTSC	Department of Toxic Substances Control
EA	environmental assessment
EIAP	Environmental Impact Analysis Process
EKAPCD	Eastern Kern Air Pollution Control District

EO	Executive Order
ERP	Environmental Restoration Program
GHG	greenhouse gas
GICIMA	Groundwater Information Center Interactive Map Application
H_2S	hydrogen sulfide
HFC	hydrofluorocarbons
kV	kilovolt
MBTA	Migratory Bird Treaty Act
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
MGS	Mohave ground squirrel
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NEPA	National Environmental Policy Act
NFI	No Further Investigation
NHPA	National Historic Preservation Act of 1966
NO_2	nitrogen dioxide
NO_x	nitrogen oxide
NRHP	National Register of Historic Places
O_3	ozone
OSHA	Occupational Safety and Health Administration
Pb	lead
PFC	perfluorocarbons
PIRA	Precision Impact Range Area
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
ppb	parts per billion
ppm	parts per million
RCRA	Resource Conservation and Recovery Act
REC	recognized environmental concern
RPS	Renewables Portfolio Standard
RWQCB	Regional Water Quality Control Board
SCE	Southern California Edison

SF_6	sulfur hexafluoride
SHPO	State Historic Preservation Officer
SIP	State Implementation Plan
SO_2	sulfur dioxide
SO_4	sulfate
SR	State Route
SWPPP	stormwater pollution prevention plan
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UXO	unexploded ordinance
VOC	volatile organic compound
WEAP	worker environmental awareness program
WEG	Wind Erodibility Group
$\mu g/m^3$	micrograms per cubic meter

Appendix A. Preliminary Plan and Profile – Double Circuit

Enclosed is a series of plates that outline the plan for a double circuit.



DISTURBANCE SUMMARY TABLE

Single-Pole Structures, Tangent	46	Each
Double-Pole Structures, Deadend and Angle	5	Each
Six-Pole Structures, Line Crossings	2	Each
Total Number of Ground-Mounted Fiber Splice Cabinets	2	Each
Area of Ground-Mounted Fiber Splice Cabinet	8	Sq. Ft
New Access Road from Sta 0+000 to 3+224, 12ft-wide	3224	Ft
Spur Roads from 3+525 to 28+970, 12ft-wide	25445	Ft
New Access Road from Sta 28+970 to 32+919, 12ft-wide	3949	Ft
Total Acreage of Permananent Disturbance	8.992	Acres

Total Number of Structures	53	Each	
Area of Disturbance for Stringing Location, Not Included in the Easement	188222	Sq. Ft	Stringing Site assumed to be 400ft x 100ft
Construction Disturbance, Outside of Easement, Not Previously Included	0	Sq. Ft	Disturbance at each pole assumed to be 150ft x 50ft
Additional Disturbance for Trench Excavation for Redundant Fiber-Optic Line	25676	Ft	Total Length Less the area counted as temporary construction disturbance, 6in trench
Length of 12ft Wid Construction Access Road Needed	7173	Ft	New Sta 0+000 to 3+224, Spurs 3+525 to 28+970, New 28+970 to 32+919
Total Acreage of Temporary Disturbance	6.592	Acres	

NO.	REVISION	DATE	BY
F	REVISE DISTURBANCES, ADD EASEMENT	4/8/21	MDP
E	ADD EST. HEIGHT/DEPTH	4/5/21	MDP
D	ADD FIBER TRENCH DISTURBANCE	7/24/20	MDP
C	ADD DISTURBANCE AREAS	7/14/20	MDP
B	REVISED SUBST LOC	2/11/20	MDP
A	FOR REVIEW	11/20/19	MDP

ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
OVERVIEW

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	1 OF 8

T&D SERVICES
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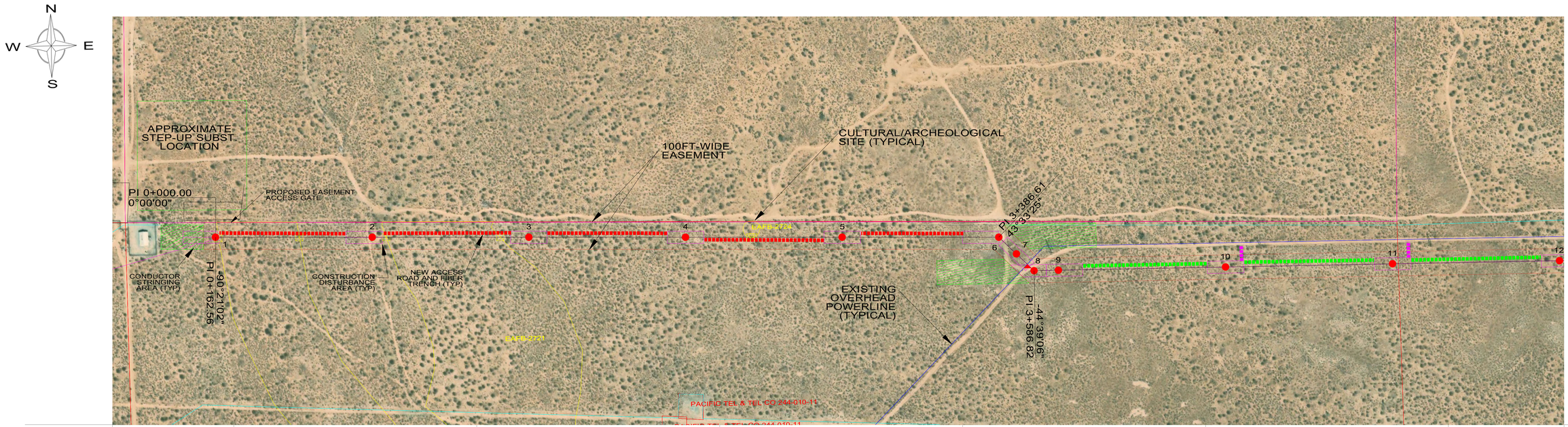
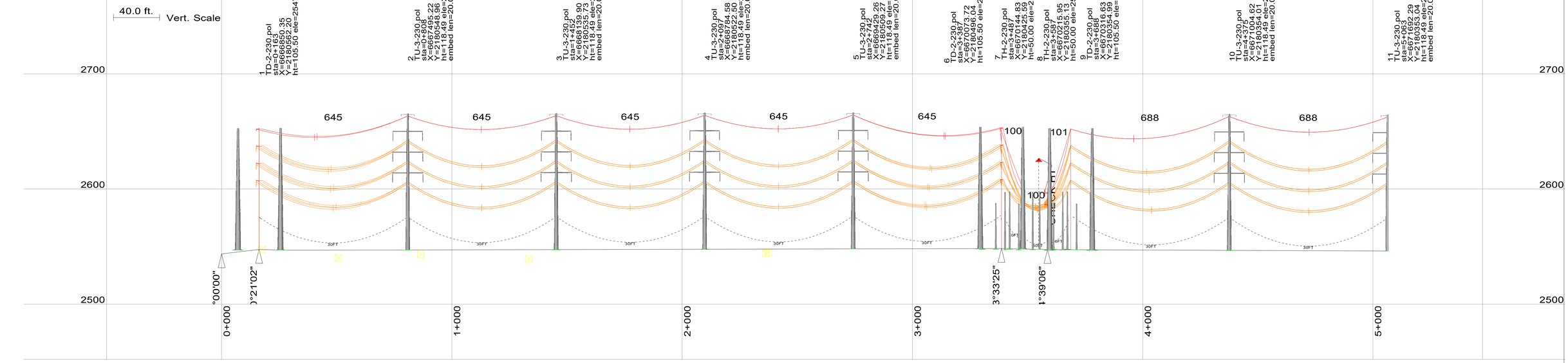
Albuquerque, NM 87113





1 - 6, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 646 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2254 (lbs)
6 - 7, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 81 (ft), Tension 58 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 57 (lbs)
8 - 9, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 103 (ft), Tension 62 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 62 (lbs)
9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2682 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2279 (lbs)
1 - 6, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 643 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2252 (lbs)
6 - 7, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 95 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 1389 (lbs)
8 - 9, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 73 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 1343 (lbs)
9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2283 (lbs)
1 - 6, 230kV, magnolia_aac.wir, Ruling Span 643 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2076 (lbs)
6 - 7, 230kV, magnolia_aac.wir, Ruling Span 100 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 436 (lbs)
7 - 8, 230kV, magnolia_aac.wir, Ruling Span 90 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 394 (lbs)
8 - 9, 230kV, magnolia_aac.wir, Ruling Span 83 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 366 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2155 (lbs)
1 - 6, 230kV, magnolia_aac.wir, Ruling Span 646 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2081 (lbs)
6 - 7, 230kV, magnolia_aac.wir, Ruling Span 86 (ft), Tension 174 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 156 (lbs)
7 - 8, 230kV, magnolia_aac.wir, Ruling Span 109 (ft), Tension 414 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 302 (lbs)
8 - 9, 230kV, magnolia_aac.wir, Ruling Span 103 (ft), Tension 142 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 135 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3763 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2147 (lbs)

NOTES:

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3. COORDINATES ARE NAD83, CA SP V.

LEGEND:

- CONSTRUCTION ACCESS ROAD ONLY
- CONSTRUCTION ACCESS ROAD WITH COINCIDENT FIBER-OPTIC CABLE TRENCH
- FIBER-OPTIC CABLE TRENCH ONLY

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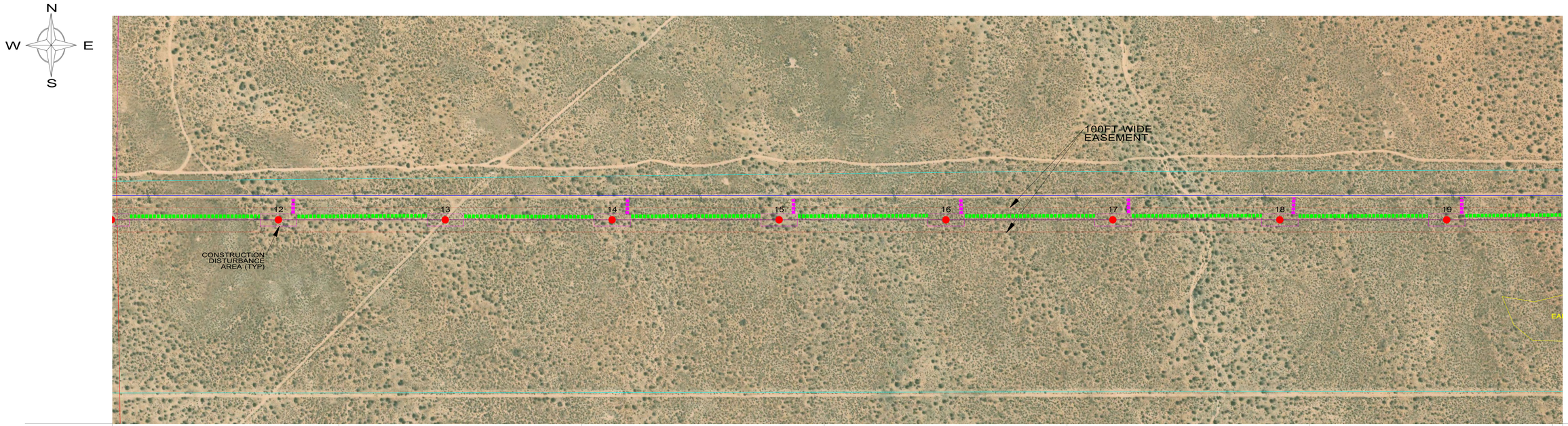
NO.	REVISION	DATE	BY
F	REVISE DISTURBANCE, ADD ESMT.	4/8/21	MDP
E	ADD EST. HEIGHT/DEPTH	4/5/21	MDP
D	ADD FIBER TRENCH DISTURBANCE	7/24/20	MDP
C	ADD DISTURBANCE AREAS	7/14/20	MDP
B	REVISED SUBST LOC	2/11/20	MDP
A	FOR REVIEW	11/20/19	MDP

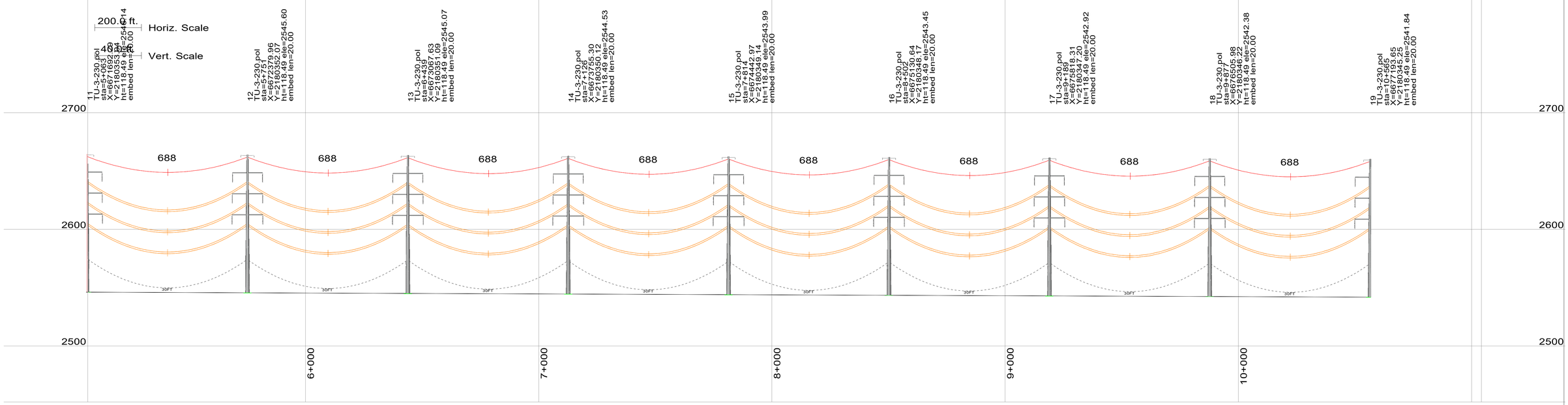
ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTURES 1 TO 11

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	2 OF 8





9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2682 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2279 (lbs)
9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2283 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2155 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3763 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2147 (lbs)

NOTES:

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LEGEND:

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Albuquerque, NM 87113

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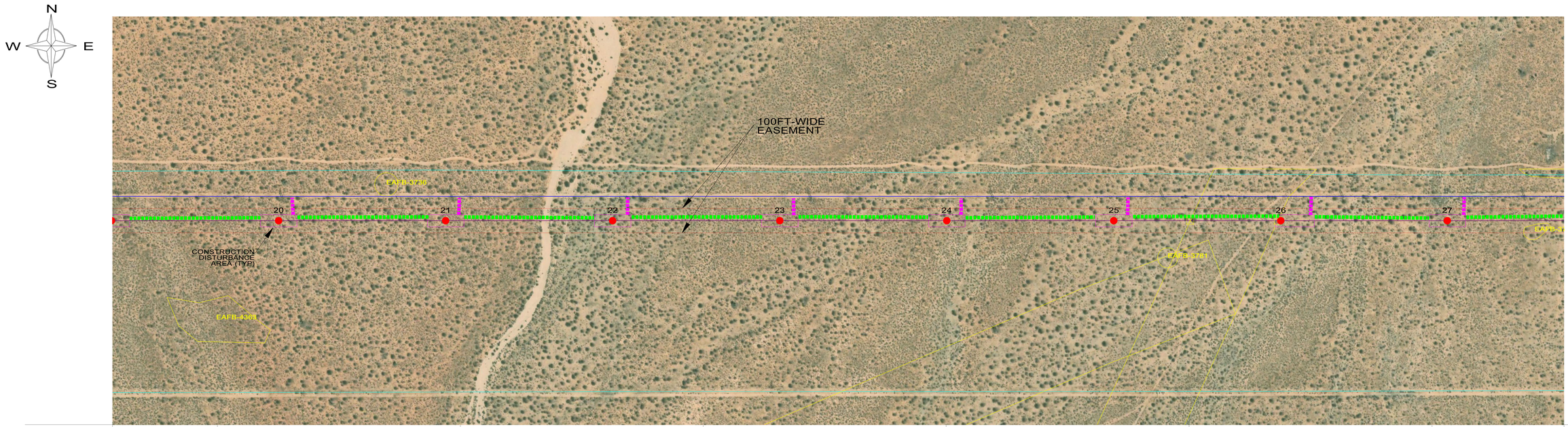
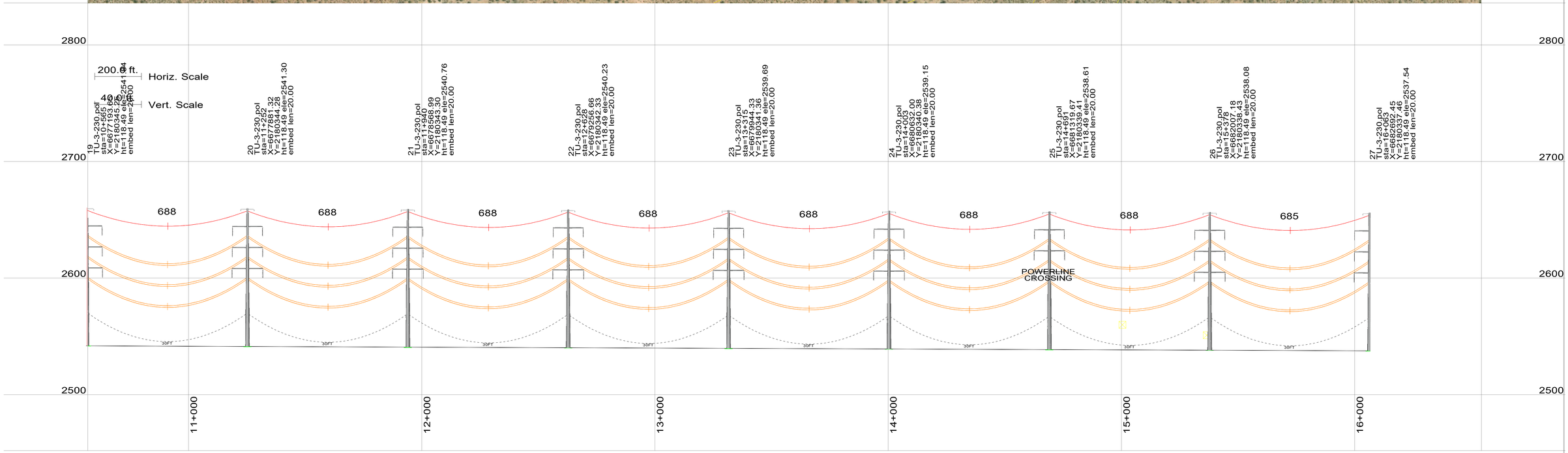
ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTUREs 12 TO 19

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	3 OF 8





9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2682 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2279 (lbs)
9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2283 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2155 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3763 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2147 (lbs)

NOTES:

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LEGEND:

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- FIBER-OPTIC CABLE TRENCH ONLY

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ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTUREs 20 TO 27

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	4 OF 8

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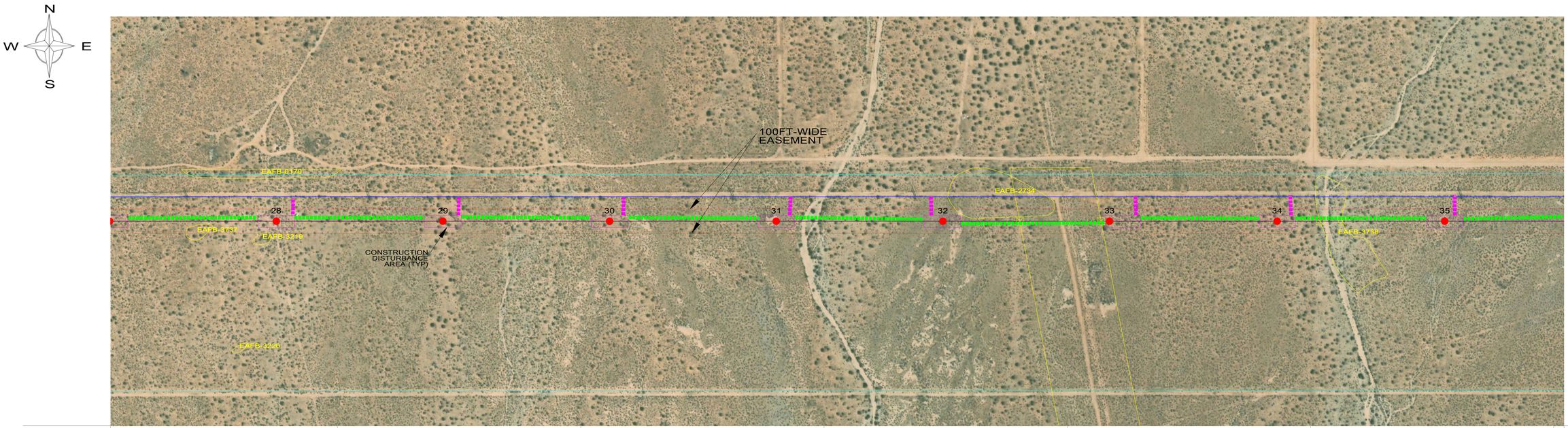

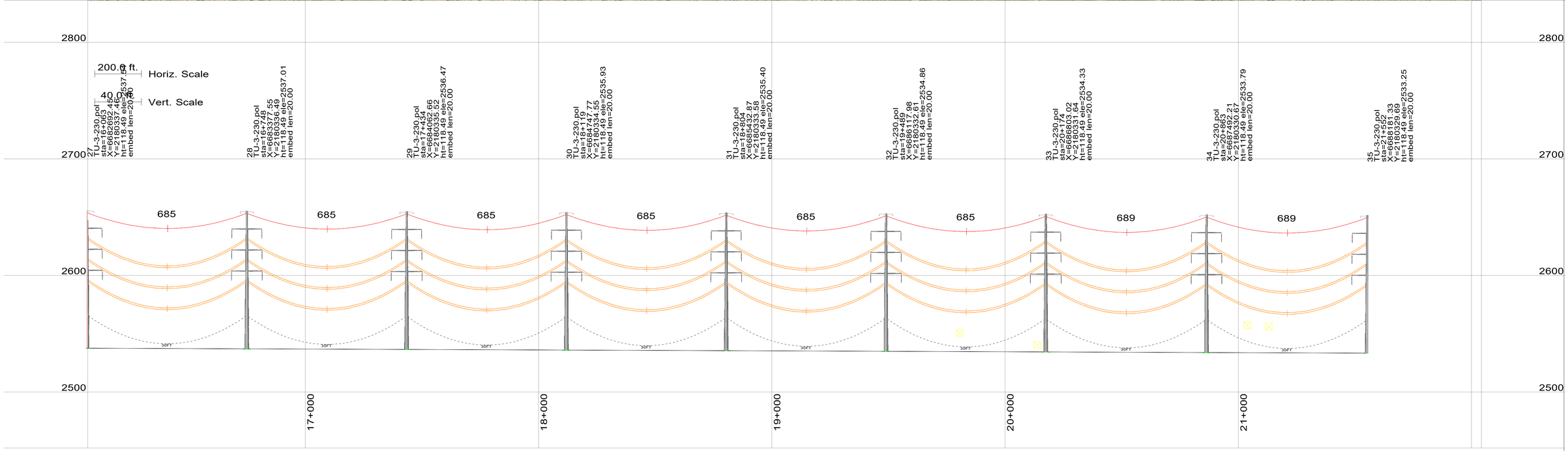

9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2682 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2279 (lbs)
9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2283 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2155 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3763 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2147 (lbs)

NOTES:

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LEGEND:

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- CONSTRUCTION ACCESS ROAD WITH COINCIDENT FIBER-OPTIC CABLE TRENCH
- FIBER-OPTIC CABLE TRENCH ONLY

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B	REVISED SUBST LOC	2/11/20	MDP
A	FOR REVIEW	11/20/19	MDP

ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTURES 28 TO 35

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	5 OF 8

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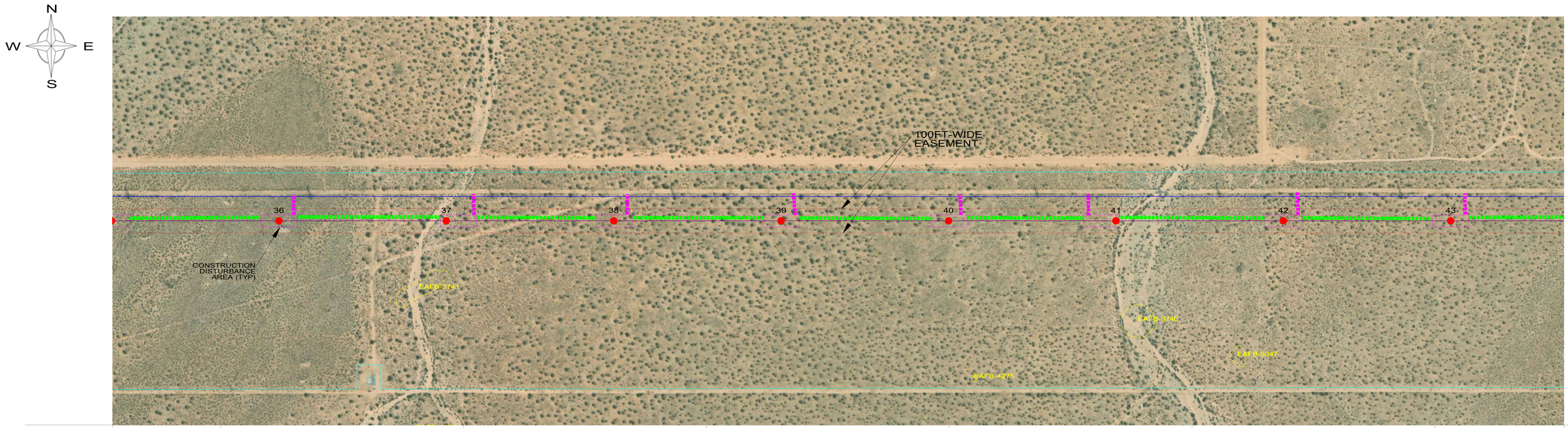

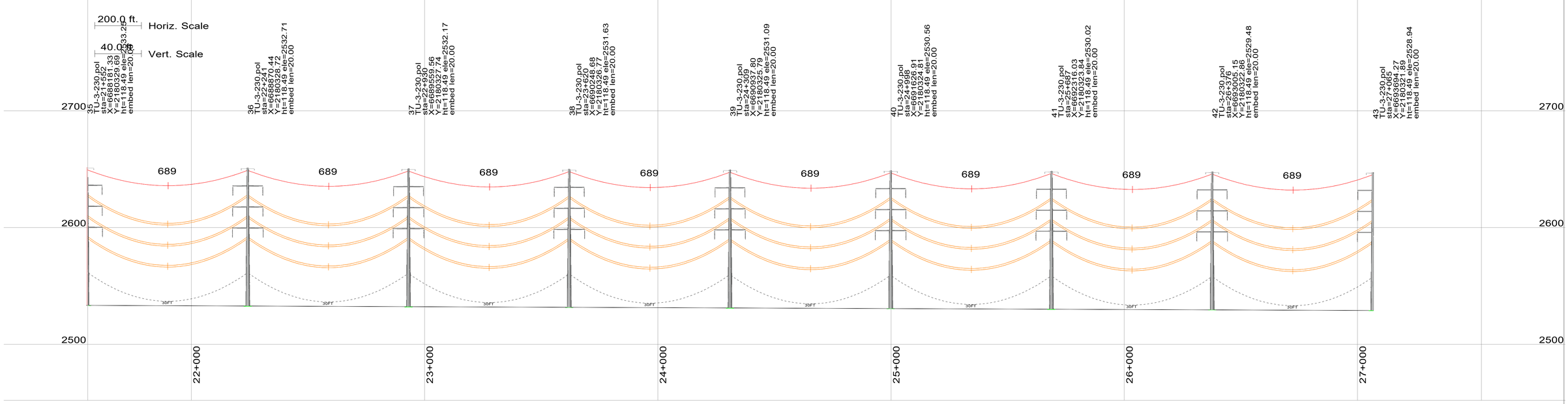

9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2682 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2279 (lbs)
9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2283 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2155 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3763 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2147 (lbs)

NOTES:

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LEGEND:

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- CONSTRUCTION ACCESS ROAD WITH COINCIDENT FIBER-OPTIC CABLE TRENCH
- FIBER-OPTIC CABLE TRENCH ONLY

NO.	REVISION	DATE	BY
F	REVISE DISTURBANCE, ADD ESMT.	4/8/21	MDP
E	ADD EST. HEIGHT/DEPTH	4/5/21	MDP
D	ADD FIBER TRENCH DISTURBANCE	7/24/20	MDP
C	ADD DISTURBANCE AREAS	7/14/20	MDP
B	REVISED SUBST LOC	2/11/20	MDP
A	FOR REVIEW	11/20/19	MDP

ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTUREs 36 TO 43

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	6 OF 8

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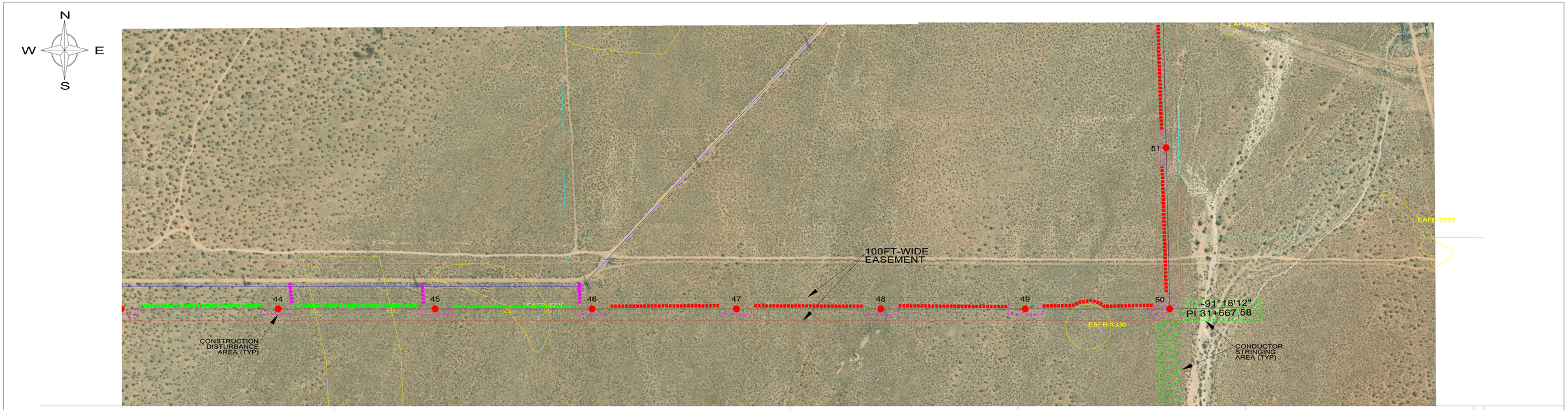

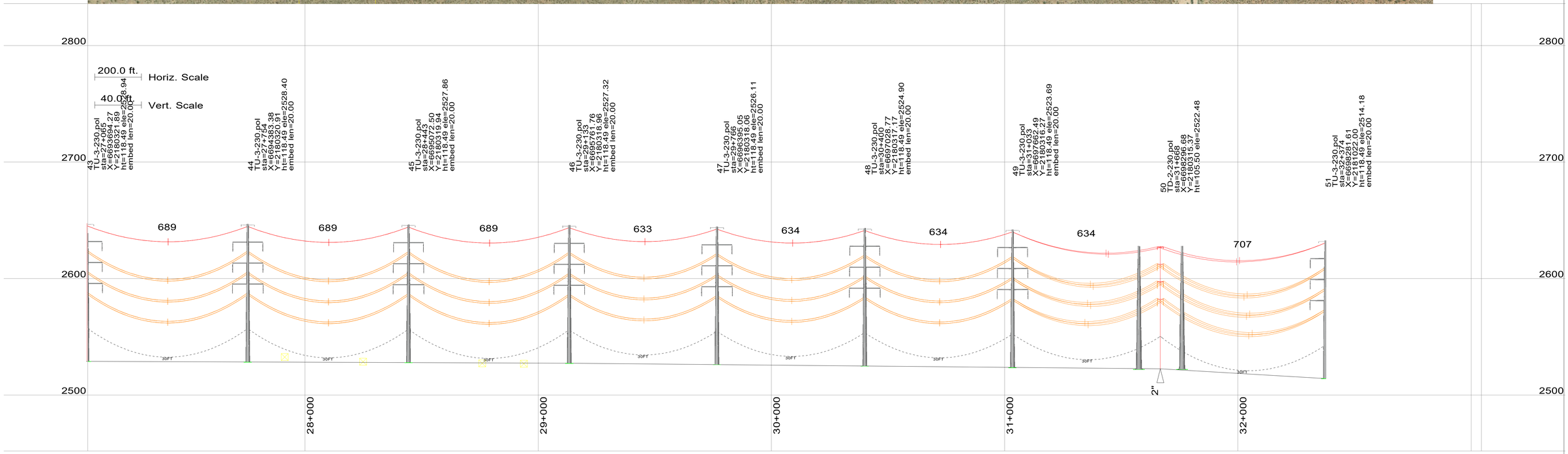

9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2682 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2279 (lbs)
50 - 53, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 707 (ft), Tension 2682 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2298 (lbs)
9 - 50, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 683 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2283 (lbs)
50 - 53, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 706 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2299 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2155 (lbs)
50 - 53, 230kV, magnolia_aac.wir, Ruling Span 706 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2200 (lbs)
9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3763 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2147 (lbs)
50 - 53, 230kV, magnolia_aac.wir, Ruling Span 707 (ft), Tension 3763 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2193 (lbs)

NOTES:

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LEGEND:

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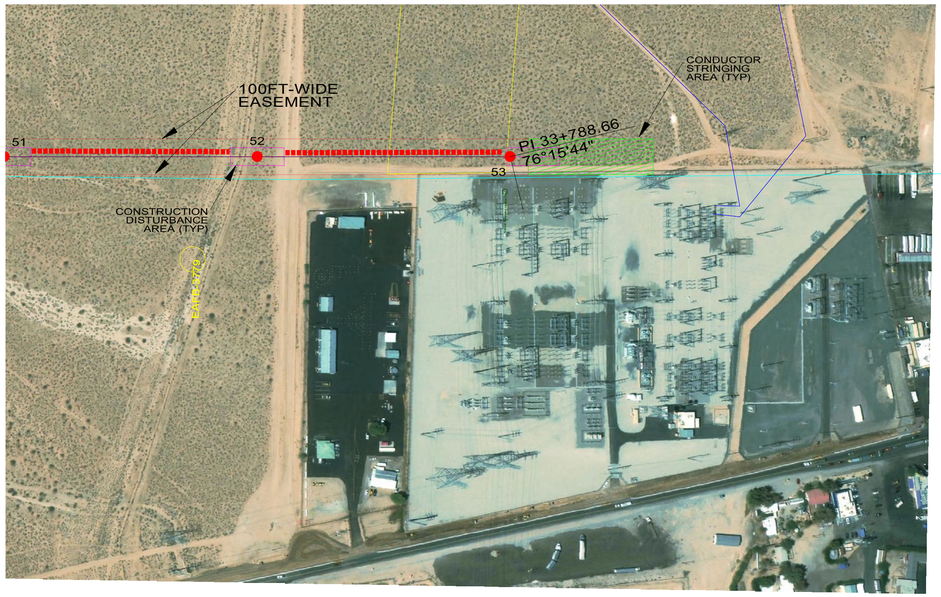
B	REVISED SUBST LOC	2/11/20	MDP
A	FOR REVIEW	11/20/19	MDP

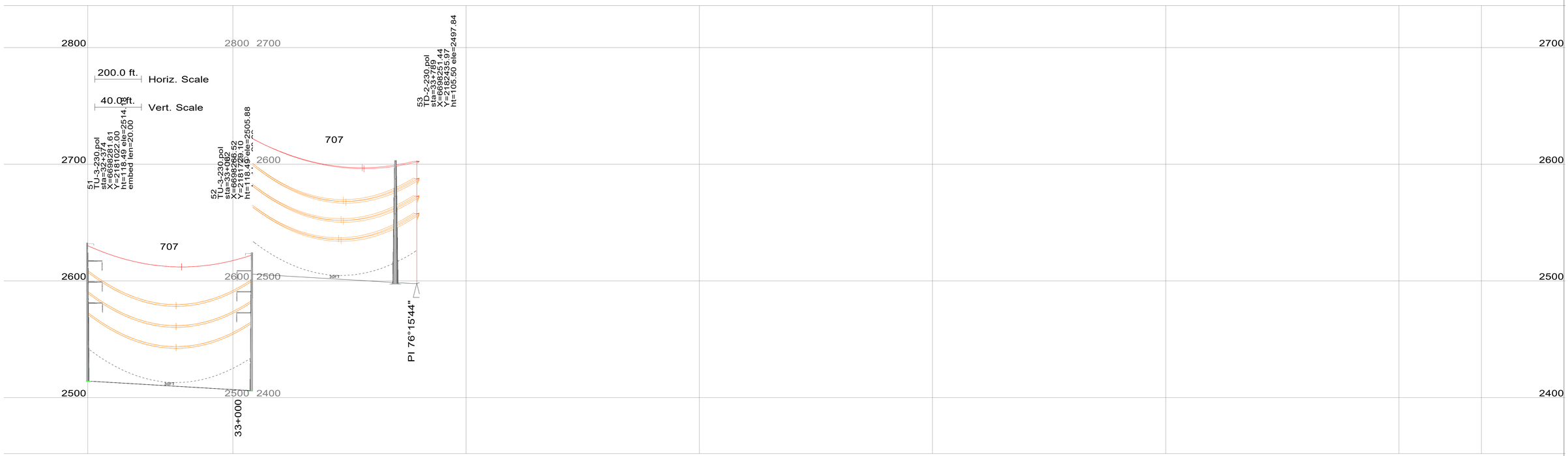
ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTUREs 44 TO 51

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	7 OF 8





50 - 53, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 707 (ft), Tension 2682 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2298 (lbs)
50 - 53, 0kV, 1_2-7_strand_ehs_steel.wir, Ruling Span 706 (ft), Tension 2685 (lbs) at 60 (deg F) Initial, Displayed 120 Deg F Creep 2299 (lbs)
50 - 53, 230kV, magnolia_aac.wir, Ruling Span 706 (ft), Tension 3814 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2200 (lbs)
50 - 53, 230kV, magnolia_aac.wir, Ruling Span 707 (ft), Tension 3763 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2193 (lbs)

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LEGEND:

- CONSTRUCTION ACCESS ROAD ONLY
- CONSTRUCTION ACCESS ROAD WITH COINCIDENT FIBER-OPTIC CABLE TRENCH
- FIBER-OPTIC CABLE TRENCH ONLY

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B	REVISED SUBST LOC	2/11/20	MDP
A	FOR REVIEW	11/20/19	MDP

ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTUREs 52 TO 53

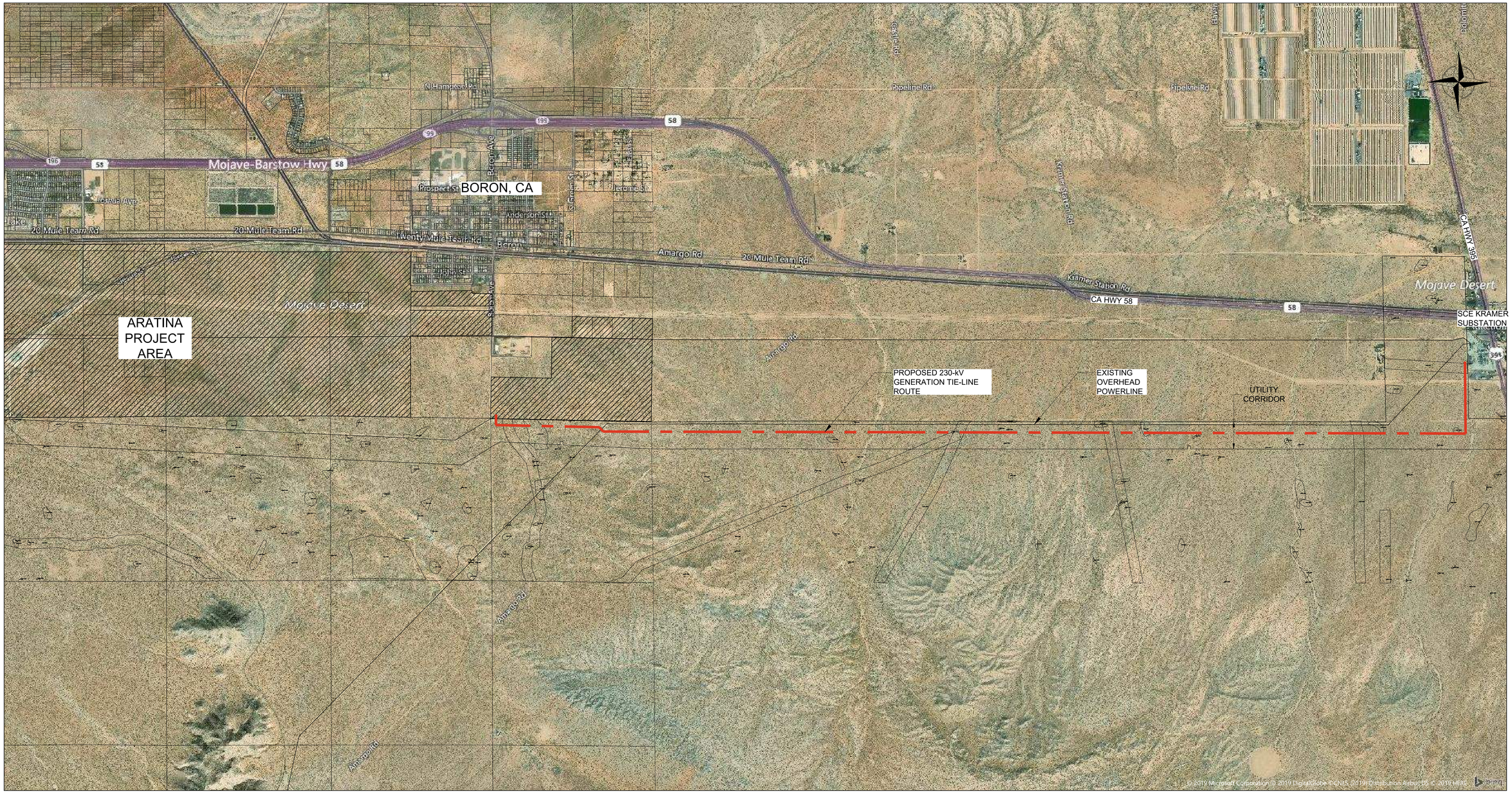
DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	8 OF 8

Gen-Tie Line Construction Equipment and Construction Workforce

Equipment Type	Quantity	Personnel
Access/Spur Road Construction		
Bulldozer	1	2: Driver + Spotter
Grader	1	2: Driver + Spotter
Compactor	1	2: Driver + Spotter
Foundation Installation		
Drilling Rig	1	3: Driver + Operator + Support
Crane	1	3: Driver + Operator + Support
Boom Truck	1	1: Operator
Flat Bed Truck	1	1: Operator
Crew Truck(s)	6	6: Crew
Concrete Truck	1	1: Driver/Operator
Pole Erection		
Bucket Lift Truck	1	2: Driver + Operator
Boom Truck(s)	1	3: Driver + Operator + Support
Crew Truck(s)	6	6: Linemen/Groundmen
Cable Pulling		
Heavy-duty Truck (Puller)	1	2: Driver + Operator
Heavy-duty Truck (Tensioner)	1	2: Driver + Operator
Crew Truck(s)	6	6: Linemen/Groundmen
Crew Truck(s)	6	3: Spotters
Helicopter	1	2: Pilot + Spotter

Appendix B. Preliminary Plan and Profile – Single Circuit

Enclosed is a series of plates that outline the plan for a single circuit.



NO.	REVISION	DATE	BY
C	ADD DISTURBANCE AREAS	7/14/20	MDP
B	REVISED SUBST LOC	2/11/20	MDP
A	FOR REVIEW	11/20/19	MDP

ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
OVERVIEW

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	1 OF 8

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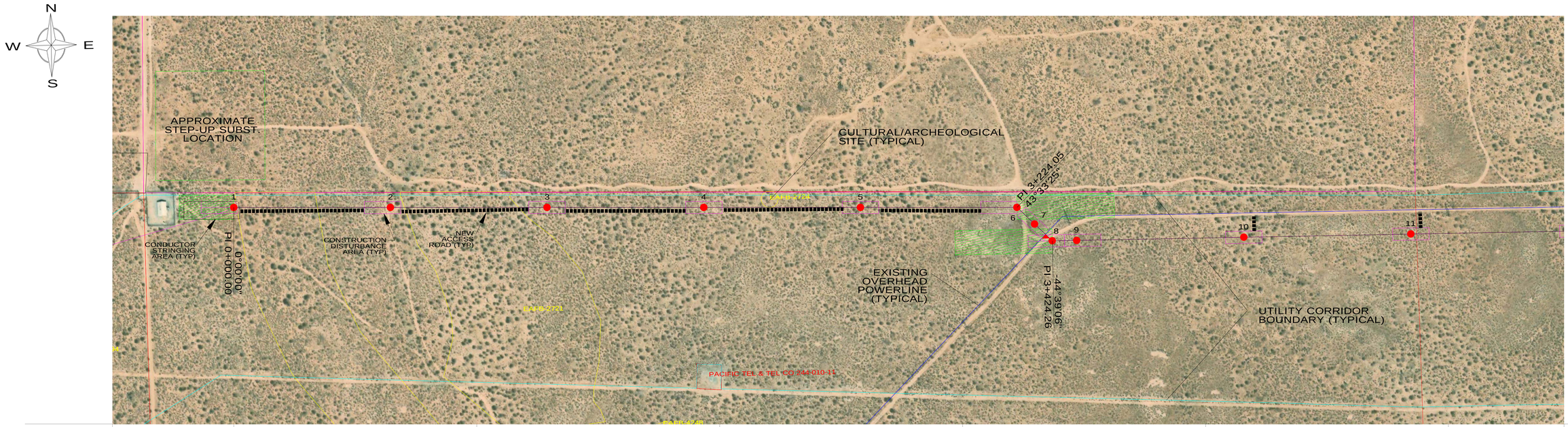

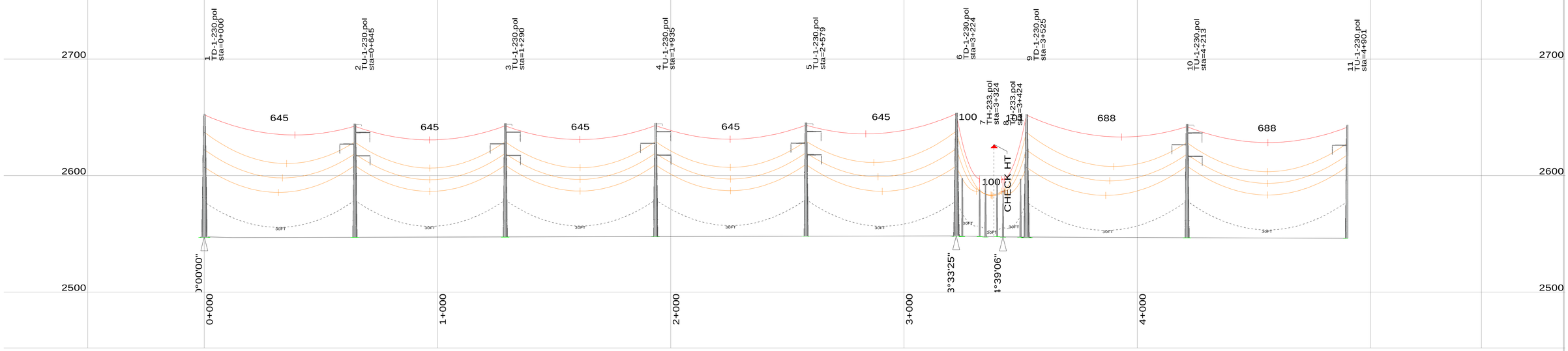

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9 - 50, 230kV, magnolia_aac.wir, Ruling Span 683 (ft), Tension 3763 (lbs) at 60 (deg F) Initial, Displayed 212 Deg F Creep 2146 (lbs)

NOTES:

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2. PROPERTY BOUNDARIES ARE FROM KERN COUNTY DATABASE. FINAL DESIGN WILL BE BASED ON A CURRENT ALTA SURVEY.

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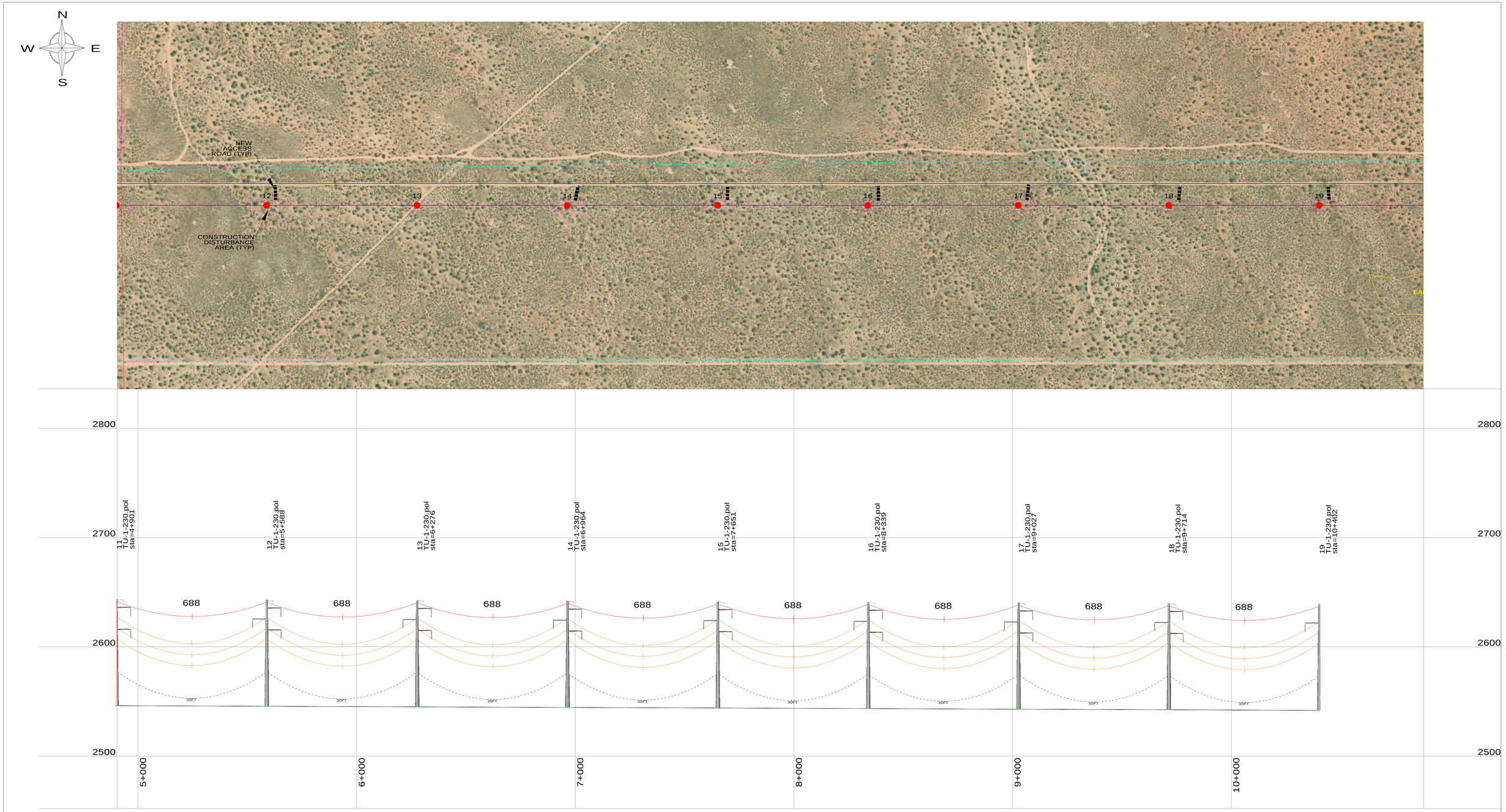
B	REVISED SUBST LOC	2/11/20	MDP
A	FOR REVIEW	11/20/19	MDP

ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTURES 1 TO 11

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	2 OF 8



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ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTUREs 12 TO 19

DATE	PROJ. NUM.	SHEET
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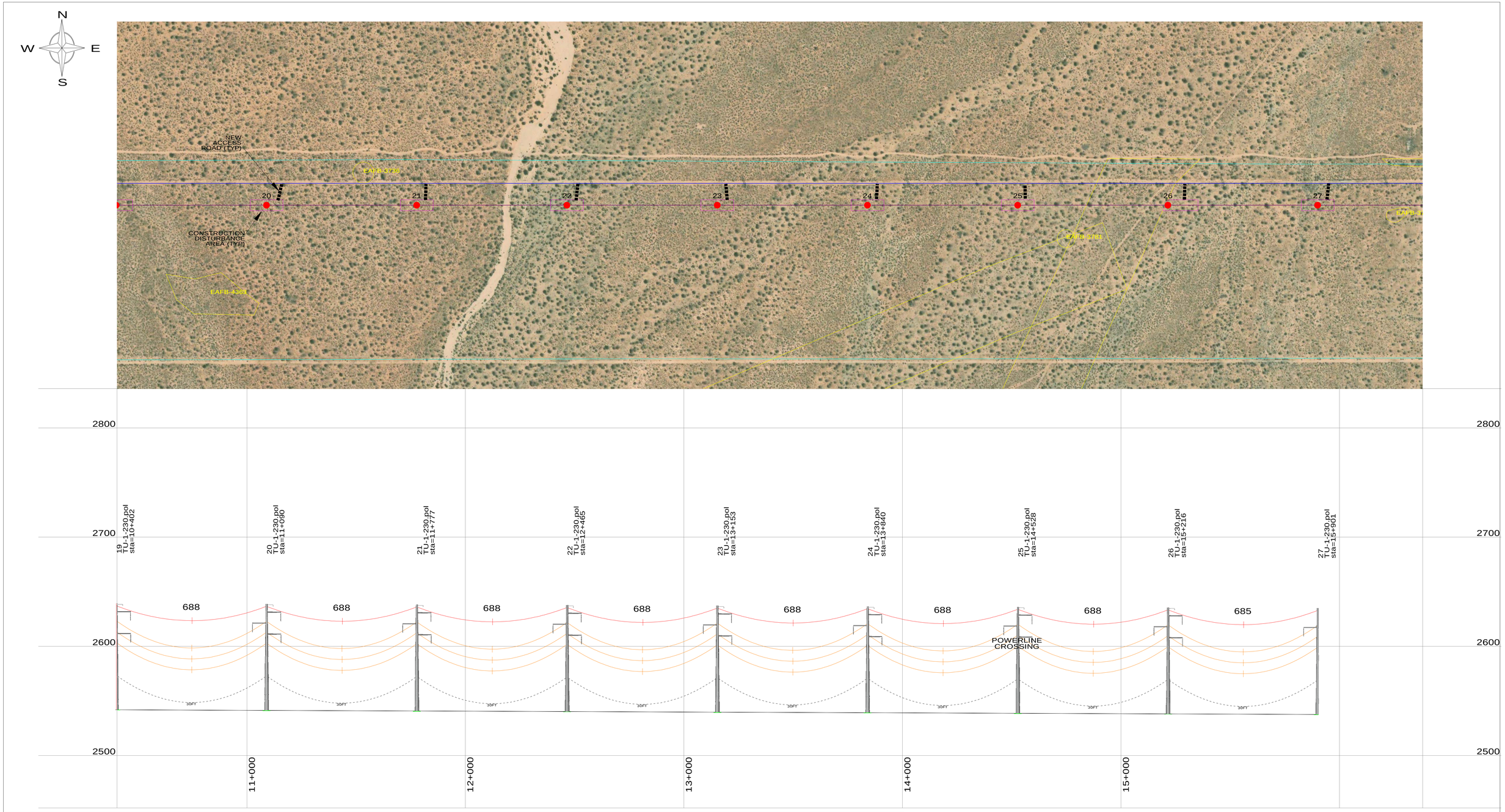

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ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTUREs 20 TO 27

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	4 OF 8

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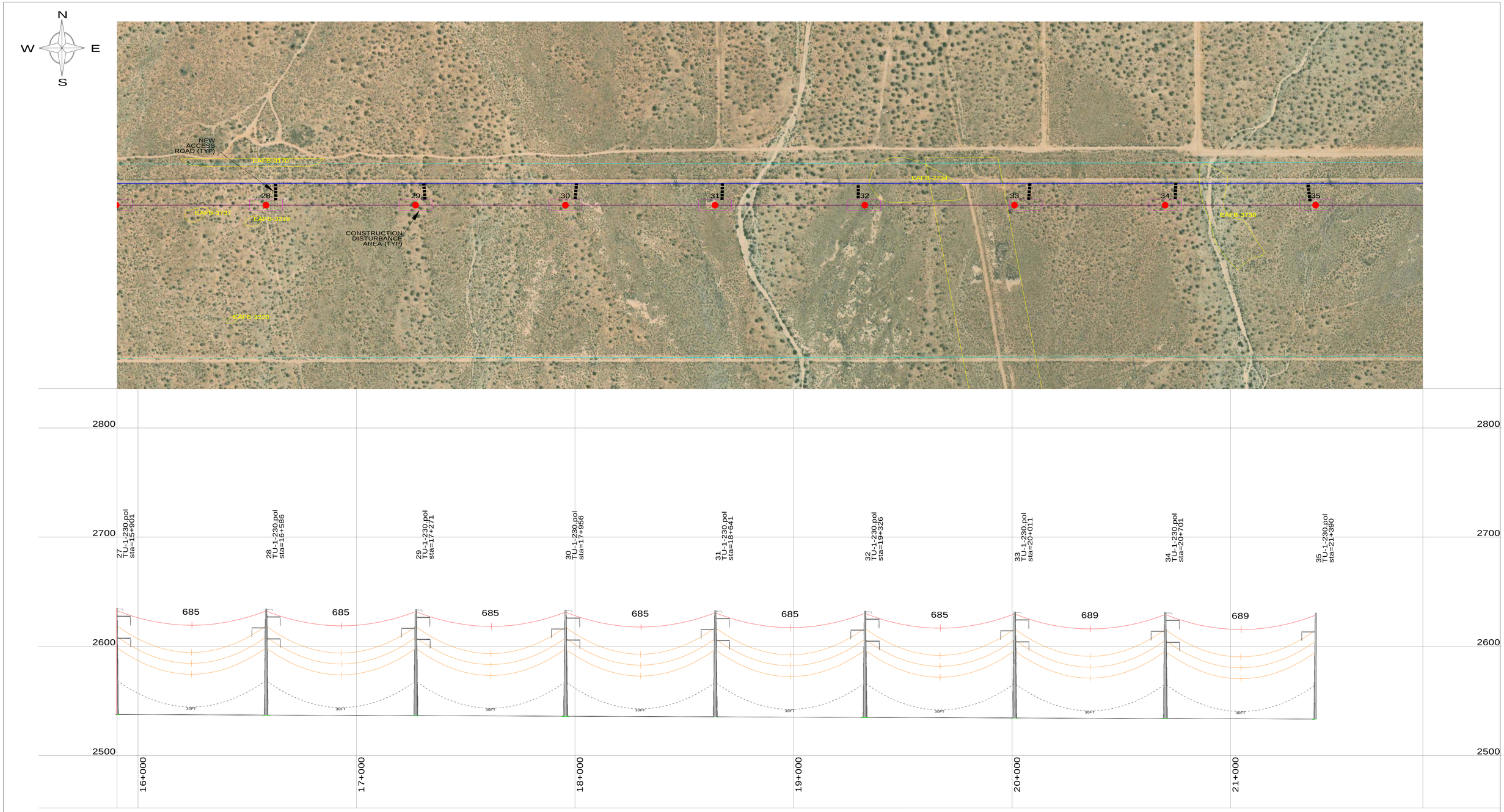

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ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTUREs 28 TO 35

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	5 OF 8

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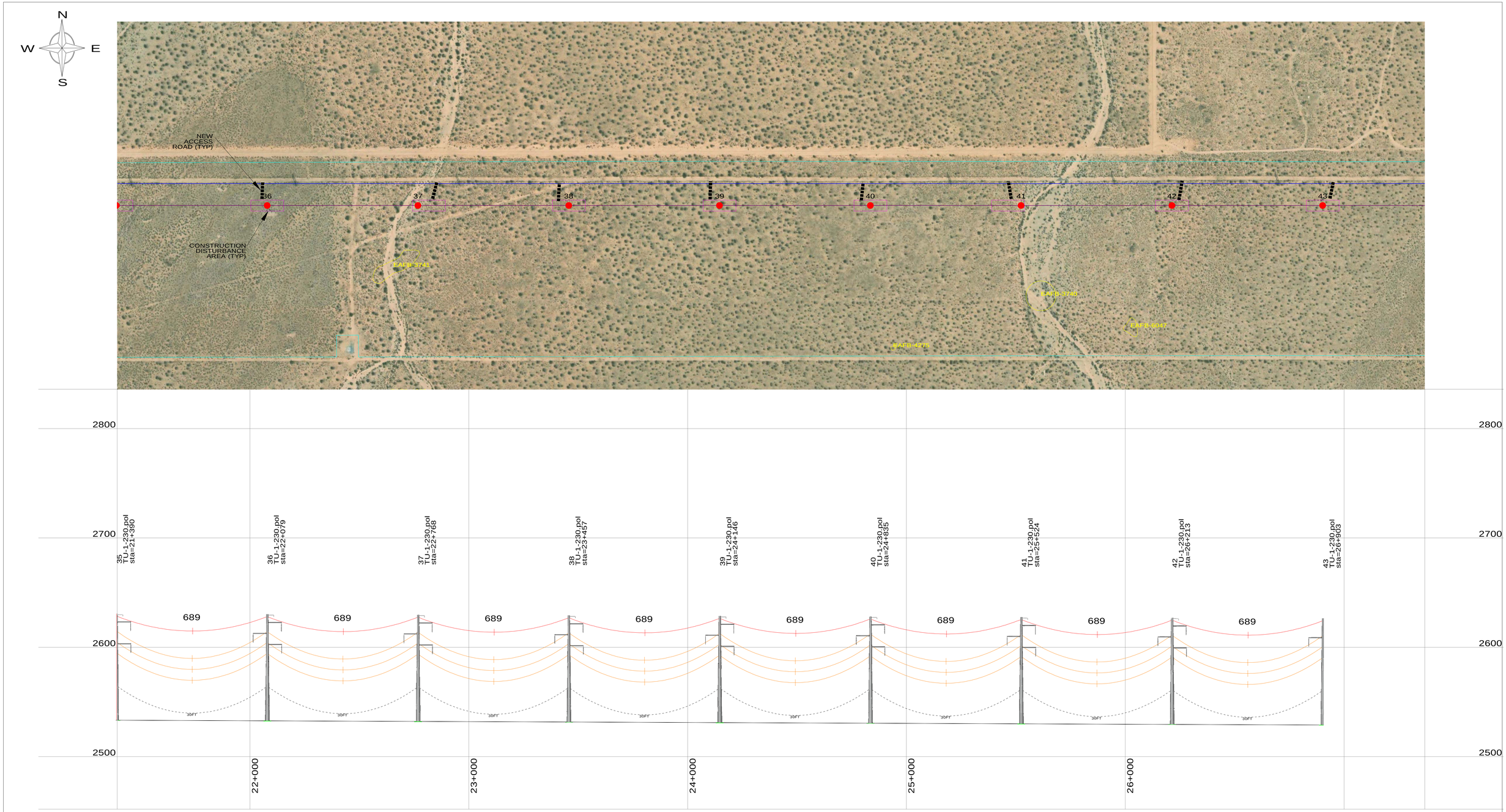

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ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTUREs 36 TO 43

DATE	PROJ. NUM.	SHEET
NOV, 2019	190086	6 OF 8

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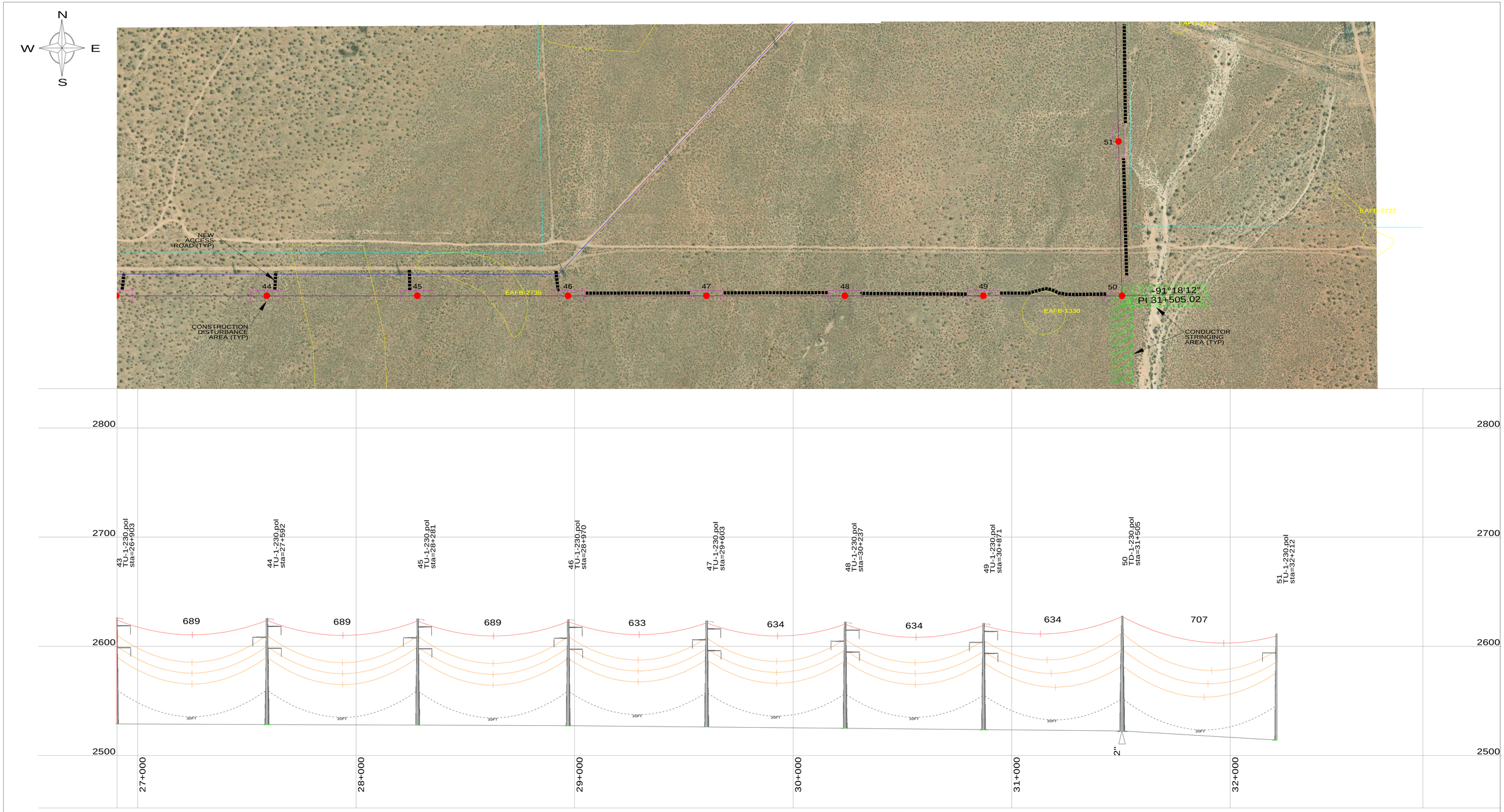

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ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTUREs 44 TO 51

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NOV, 2019	190086	7 OF 8

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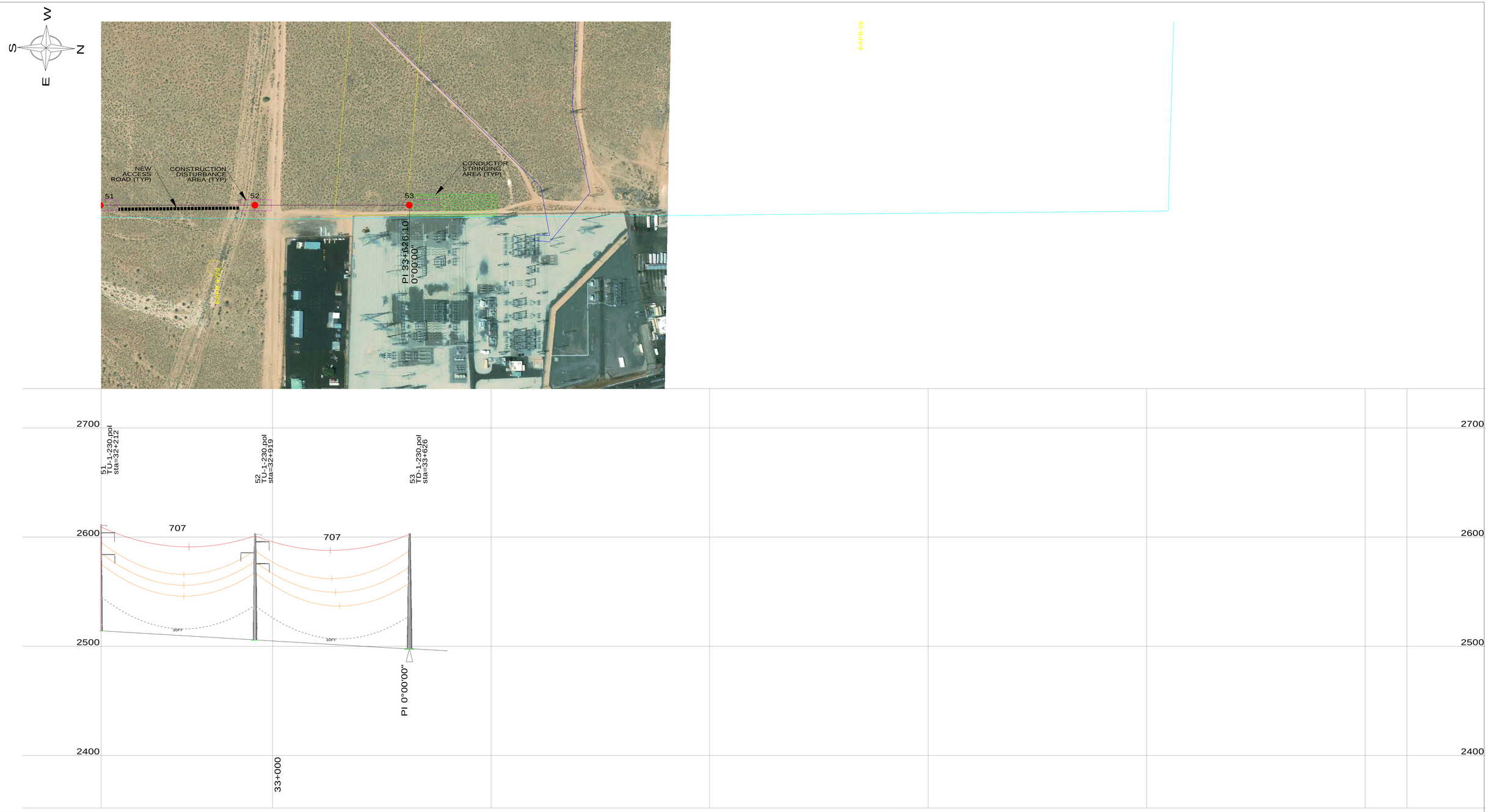

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ARATINA SOLAR PROJECT

8MINUTE SOLAR ENERGY

PRELIMINARY PLAN/PROFILE
230-kV GENERATION TIE-LINE
STRUCTUREs 52 TO 53

DATE	PROJ. NUM.	SHEET
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Appendix C. Air Quality Technical Report

Rincon Consultants, Inc.

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Los Angeles, California 90012

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info@rinconconsultants.com
www.rinconconsultants.com

June 7, 2021
Project No. 18-06956

8minute Solar Energy, LLC
5455 Wilshire Boulevard, Suite 2010
Los Angeles, California 90036
Contact: Alexander Sundquist

Subject: **General Conformity Applicability Analysis and Greenhouse Gas Evaluation for Transmission Line Easement, Unincorporated Kern County and San Bernardino County, California**

Dear Mr. Sundquist:

Rincon Consultants has prepared this General Conformity Applicability Analysis and Greenhouse Gas Evaluation (GHG) for a proposed transmission line easement within Corridor 5 of the Utility Corridor Area Development Plan (ADP) that is overseen by the Edwards Air Force Base (AFB) (herein referred to as "proposed action" or "project").

The federal Clean Air Act (CAA) requires that a federal agency taking an action, including funding an action, must make a determination that its action would not conflict with a State Implementation Plan (SIP). As part of the implementation of the CAA, the United States Environmental Protection Agency (USEPA) has developed rules for transportation projects and non-transportation projects. The rule applicable to the project is referred to as the "General Conformity Rule." The federal action in this case is the construction, operation, maintenance, and decommissioning of a gen-tie line within a utility corridor overseen by the Edwards AFB. The United States Air Force must respond to 8minute Solar Energy's application for the right of way (ROW) to construct, operate, maintain, and decommission the proposed action. The purpose of this letter is to evaluate the proposed action's conformity to the applicable SIP and consistency with the CAA General Conformity Rule in support of this application. The GHG emissions associated with the proposed action are also assessed qualitatively in this letter pursuant to the requirements of the Air Force Manual 32-7002. This analysis was performed in accordance with the General Conformity Rule (40 Code of Federal Regulations [CFR] Subpart B), the Environmental Impact Analysis Process (EIAP, 32 CFR 989), and the USAF Manual 32-7002 Environmental Compliance and Pollution Prevention requirements. This environmental analysis also tiers off the Environmental Assessment prepared for the Proposed Utility Corridor at Edwards AFB in July 2016.[1]

Project Description

The project site is located in in both unincorporated Kern County and San Bernardino County near the community of Boron and Kramer Substation. The project area straddles State Route 58 between

[1] 412th Test Wing Civil Engineer Group, Environmental Management Division, Edwards AFB, California. 2016. Environmental Assessment for Proposed Utility Corridors at Edwards Air Force Base California. July. https://apps.dtic.mil/sti/pdfs/AD1024275.pdf (accessed April 2021).

Gephart Road on the west and San Bernardino County line on the east. Edwards AFB is approximately 10 miles southwest of the nearest project boundary.

The purpose of the Proposed Action is to facilitate transmission of the energy produced at 8minute Solar Energy's Aratina Solar Farm to the statewide electrical grid. The proposed transmission gen-tie line would connect the Aratina Solar Farm to the existing Southern California Edison (SCE) Kramer Substation to the east, located at the southwest corner of State Route 58 and State Route 395.

Power generated by the Aratina Solar Farm would be delivered from the project's onsite substation to the existing SCE Kramer Substation via an up to 6.5-mile 230 kilovolt (kV) electrical transmission line. There would be a total of 53 transmission support structures erected with the right of way, which would be spaced 500 feet to 700 feet apart. The transmission structure heights would be generally 125 feet above ground with a minimum ground clearance of 30 feet. Communications cable or fiber cable would be installed within a trench that runs parallel with the transmission line. The proposed 230 kV line would be located entirely within the existing Edwards AFB Utility Corridor 5. The proposed 230 kV line would be located immediately south of the existing SCE overhead transmission line and direct road that spans east to west along a portion of this corridor. This allows for maximum use of existing dirt roads to minimize new ground disturbance.

Required Minimization Measures

Because the project would involve constructing a transmission line in the Edwards AFB utility corridor, it would be required to implement the minimization measures identified in the Environmental Assessment prepared for the utility corridor in July 2016.[2] The minimization measures are as follows:

- **MM AIR-1:** Project activities shall comply with all applicable rules and regulations as identified in Air Force Instruction (AFI) 32-7040, Air Quality Compliance and Resource Management.[3]
- **MM AIR-2:** The project shall comply with all applicable Eastern Kern Air Pollution Control District (EKAPCD), Mojave Desert Air Quality Management (MDAQMD), or Antelope Valley Air Quality Management District (AVAQMD) rules and regulations and obtain the necessary air quality permits. Emissions from permitted devices and activities must be tracked and reported to the California Air Resource Board (CARB), the appropriate air district and the USEPA. Air quality permits, if required, shall be coordinated through the Environmental Management Division. The Environmental Management Division is the lead agency for the application and maintenance of air quality permits on Edwards AFB. Very few, if any, air quality permits would be required for this project as the majority of emissions will be due to mobile sources.
- **MM AIR-3:** All stationary engines (emergency generators and fire water pumps) must be certified to the appropriate EPA Tier IV rating and CARB Executive Order emission standards. All stationary engines regardless of horsepower rating need to comply with NESHAPS maintenance requirements for oil, air filter, and hose changes at least once every year. Any stationary engine with a rating of 50 brake horsepower and greater must have an air quality permit prior to operation. (*40 CFR 60.4204-5, 60.4231; EKAPCD Rule 427.V-VI (40 CFR 63.6625; 13 CCR 2451.c.3, 17 CCR 93115.6 – 10; EKAPCD 427*)

[2] Ibid
[3] AFI 32-7040 has been superseded by AFMAN 32-7002. The project activities would comply with the rules and regulations from AFMAN 32-7002.

- **MM AIR-4:** The proposed project shall not discharge from any source whatsoever, such quantities of air contaminants or other material that would: cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public; endanger the comfort, repose, health or safety of any such persons or the public; or cause or have a natural tendency to cause injury or damage to business or property.
- **MM AIR-5:** All earthwork activities shall be planned and conducted to minimize the duration that soils would be left unprotected. The extent of the area of disturbance necessary to accomplish the project shall be minimized. Exposed surfaces shall be periodically sprayed with water.
- **MM AIR-6:** Visible emissions (e.g., dust or smoke) from the proposed projects shall not exceed the limitations as outlined by the local air district.
- **MM AIR-7:** Apply water or dust suppressants to roads and open areas where dust is being generated. If winds produce excessive visible emissions, erect wind barriers. Do not grade or till compacted dirt without applying water or dust suppressant.
- **MM AIR-8:** Discontinue grading and other ground-disturbing activities at wind speeds exceeding 25 miles per hour.
- **MM AIR-9:** All vehicles transporting fill material or debris shall be covered to reduce particulate matter with a diameter of 2.5 or less ($PM_{2.5}$) and particulate matter with a diameter of 10 or less (PM_{10}) emissions during transport.
- **MM AIR-10:** Temporary coverings must be installed over open storage piles.
- **MM AIR-11:** All mechanical and construction equipment shall be kept in good working order according to applicable technical orders and the manufacturer's equipment maintenance manuals to reduce emissions to acceptable levels.
- **MM AIR-12:** The following dust control measures will be implemented during land preparation (i.e., clearing, grading, etc.), excavation and/or post-construction:
  - All soil excavated or graded should be sufficiently watered to prevent excessive dust. Watering should occur as needed with complete coverage of disturbed soil areas.
  - Watering should be a minimum of twice daily on unpaved/untreated roads and on disturbed soil areas with active operations.
  - All clearing, grading, earth moving and excavation activities shall cease during periods of winds greater than 20 miles per hour (averaged over one hour), if disturbed material is easily windblown or when dust plumes of 20 percent or greater opacity impact public roads, occupied structures or neighboring property.
  - All fine material transported off site should be either sufficiently watered or securely covered to prevent excessive dust.
  - All haul trucks should be required to exit the site via an access point where a gravel pad or grizzly has been installed.
  - Stockpiles of soil or other fine loose material shall be stabilized by watering or other appropriate method to prevent wind-blown fugitive dust.
  - Once clearing or grading has ceased, all inactive soil areas within the project area shall either be seeded and watered until plant growth is evident, treated with a dust palliative or watered twice daily until soil has sufficiently crusted to prevent fugitive dust emission.

- On-site vehicle speed should be limited to 15 miles per hour.
- All areas with vehicle traffic should be paved, treated with dust palliatives, or watered a minimum of twice daily.
- Streets adjacent to the project site should be kept clean and accumulated silt removed.
- Revegetation/restoration shall be required based on the level of disturbance created from project activities. Revegetation/restoration shall be in accordance with the Edwards Air Force Base Revegetation Plan.[4]

- **MM AIR-13**: The following measures should be implemented to control construction vehicle tailpipe emissions:
  - Properly maintain and tune all internal combustion engine powered equipment;
  - Require employees and subcontractors to comply with the CARB idling restrictions for compression ignition engines; and
  - Use CARB diesel fuel;
  - Owners and/ or operators of in-use off-road diesel, gasoline, liquefied petroleum gas (LPG), and other alternate fuels vehicles rated 25 horsepower (hp) or greater (i.e. loaders, crawlers tractors, skid steers, backhoes, forklifts, etc.) and portable engines rated 50 hp or greater must meet current emission standards and fleet requirements pursuant to California Air Resources Board (CARB) regulations. The equipment must be registered under the Diesel Off-road Online Reporting System (DOORS), Portable Equipment Registration Program (PERP), or maintain a local permit. New equipment must be certified to an appropriate EPA Tier rating and CARB Executive Order emission standards. For any portable engine or off-road vehicle used by a contractor, rental agency, or other party registered with CARB, the proponent/contractor shall be responsible maintaining PERP/DOORS registration and notifying the Air Pollution Control District of any generators *(EKAPCD, MDAQMD, or AVAQMD) brought on Edwards AFB. (13 CCR 2450; 17 CCR 93116; EKAPCD Rule 202.I.D; MDAQMD Rule 219.E.1.d; AVAQMD Rule 2100)*.

In addition, the February 2021 technical air quality and GHG study prepared by Rincon Consultants recommends measures to further reduce criteria pollutant emissions especially for PM_{10} emissions.

Construction Activities

Construction of the gen-tie corridor would begin as early as the fourth quarter of 2021 (i.e. October 1, 2021). The proposed action would include the following construction activities: access and spur road construction, foundation installation, pole erection, and cable pulling. During construction, existing paved roads would be used where feasible to limit the ground disturbance. Access and spur roads would be graded to limit travel on unpaved roads. Approximately 1.35 miles of access road would be graded for construction and approximately 0.45 miles of spur roads would be constructed off of existing access roads. Neither roads would be maintained post-construction and are considered a permanent disturbance due to future use for operational maintenance purposes. During the foundation installation and pole erection activities, temporary transmission structures site approximately 150 feet by 50 feet wide would be established for the permanent structures. The areas would be cleared of vegetation (except for mature vegetation such as a Joshua tree). Then the transmission structure would be set in an

[4] Edwards AFB. 1994. Edwards Air Force Base Revegetation Plan. Air Force Flight Test Center. Environmental Management Office.

augured hole for tangent structures or concrete pier foundation for dead-end structures. During the pole erection and cable pulling activities, there would be six pulling and tension sites to install the conductors on the transmission structures. The sites would be 100 feet by 400 feet long and would be located on or adjacent to the gen-tie service road. The conductors would be strung between transmission structures, after which cables would be pulled through one segment of the transmission line at a time. Power pulling equipment and trucks would pull the conductors and cables into place. The anticipated construction equipment list and workforce needed are listed in Table 1

Construction would temporarily disturb approximately 16.71 acres (727,888 square feet) due to structure erection, wire, pulling, access roads, and trenching. Approximately 8.99 acres (391,604 square feet) would be permanently disturbed due to facilities and roadways. Water would be used onsite to limit fugitive dust emissions. The timing of construction would be coordinated with Edwards AFB with the majority of construction occurring between 6:00 am and 5:00 pm, Monday through Friday.

Table 1 Gen-Tie Line Construction Equipment List and Workforce

Equipment Type[1]	Quantity	Personnel
Phase: Access/Spur Road Construction		
Bulldozer	1	2: Driver, Spotter
Grader	1	2: Driver, Spotter
Compactor	1	2: Driver, Spotter
Foundation Installation		
Drilling Rig	1	3: Driver, Operator, Support
Crane	1	3: Driver, Operator, Support
Boom Truck	1	1: Operator
Flat Bed Truck	1	1: Operator
Crew Truck(s)	6	6: Crew
Concrete Truck	1	1: Driver/Operator
Pole Erection		
Bucket Lift Truck	1	2: Driver, Operator
Boom Truck(s)	1	3: Driver, Operator, Support
Crew Truck(s)	6	6: Driver, Operator
Cable Pulling		
Heavy-Duty Truck (Puller)	1	2: Driver, Operator
Heavy-Duty Truck (tensioner)	1	2: Driver, Operator
Crew Truck(s)	6	6: Driver, Operator
Crew Truck(s)	6	3: Spotters
Helicopter	1	2: Pilot, Spotter

[1] All equipment assumed to be diesel-fueled

Note: Construction equipment list provided by 8minute Solar Energy

Operational Activities

The Proposed Project would operate continuously throughout the life of the Aratina Solar Farm. Following construction, activities associated with the gen-tie would be restricted to inspection and occasional maintenance and repair. Twice annual visual inspections would be conducted by ground crews to inspect insulators, overhead grounds, and transmission structure hardware. Gen-tie access roads would not be regularly maintained, but as-needed grading may be conducted to provide access to transmission structures for maintenance activities.

Additional operations and maintenance activities may include insulator washing, periodic air inspection, repair or replacement of lines, replacement of insulators, painting tower or pole identification markings or corroded areas, response to emergency situations (e.g., outages) to restore power. Maintenance work would be coordinated with Edwards AFB.

Since the operational activities would only occur twice per year (with the exception of emergency situations), the operation-related emissions from the project were assumed to be negligible due to infrequency of personnel traveling to the project site.

Regulatory Framework

Section 176(c) of the CAA, as amended (42 United States Code [U.S.C.] 7401 et seq.) prohibits federal agencies from engaging in, supporting, providing financial assistance to, or issuing permits for activities that do not conform to an applicable SIP. The requirements for implementation of the General Conformity Rule, as provided in 40 CFR 6 and 40 CFR 51, were adopted by the EKAPCD in Rule 210.7 and by the MDAQMD in Rule 2002.

Title 40 CFR Part 51 Subpart W and 40 CFR Part 93 Subpart B: General Conformity

The CAA requires federal agencies to ensure that their actions conform to the applicable SIP. The CAA applies only to direct and/or indirect emissions caused by actions that occur in areas designated as nonattainment or maintenance areas with respect to National Ambient Air Quality Standards (NAAQS). These regulations require an applicability analysis to determine whether the federal action must be supported by a conformity determination. Under the General Conformity Rule, the CAA applicability analysis is conducted for federal actions performed in locations with a history of non-compliance, as described below:

a. An area that is in nonattainment (i.e., has recorded violations of the NAAQS) for each criteria pollutant (such as ozone, carbon monoxide, and particulate matter) for which the area is designated nonattainment
b. An area designated as nonattainment that was later re-designated by the Administrator of the USEPA as an attainment area and that is therefore required to develop a maintenance plan under Section 7505a of 42 U.S.C. with respect to the specific pollutant(s) for which the area was previously designated nonattainment

The applicability analysis involves calculation of the total emissions of criteria and/or precursor pollutants during the years of construction and operation of the federal action. A conformity determination must be made if the annual emissions exceed the rates specified in 40 CFR Part 93.153(b),

referred to as *de minimis* rates. If the applicable emissions exceed the *de minimis* rates outlined in the General Conformity Rule, then the federal agency would prepare a formal General Conformity Determination for public comment. If the estimated annual emissions are below the applicable *de minimis* rates, the proposed action conforms to the SIP and is not subject to a formal general conformity determination.[5]

Environmental Impact Analysis Process

The EIAP is the USAF's tool for implementing the National Environmental Policy Act (NEPA) and the Council on Environmental Quality (CEQ) *Regulations for Implementing the Procedural Provisions of NEPA* (40 CFR 1500-150) for Air Force activities within the United States and abroad.[6] As part of the EIAP, an air quality impacts analysis (AQIA) must be performed, regardless of the region's air quality attainment status, as part of the General Conformity evaluation. The air pollutants evaluated in the AQIA include all criteria pollutants, GHGs, and total hazardous air pollutants (HAP).

Air Force Manual 32-7002 Air Quality Compliance and Resource Management

The USAF Instructions 32-7002 provide detailed directions on how to prepare the AQIA for federal actions in nonattainment and maintenance areas. The instructions state that in the initial planning process a General Conformity Applicability Analysis using the Air Conformity Applicability Model (ACAM) shall be performed as an initial screening-level analysis.[7] The ACAM is a tool that performs a simplified General Conformity Rule Applicability analysis for proposed non-transportation actions. If the screening tools determines that the emissions would exceed the *de minimis* rates established by 40 CFR 93.153(b), then a Conformity Determination is required to demonstrate that the proposed federal action conforms to the applicable SIP and meets the General Conformity requirements.

Criteria for Evaluation of Impacts

The proposed action is located in the unincorporated areas of eastern Kern County and western San Bernardino County near the communities of Boron and Kramer Junction. The project site is situated in the Mojave Desert portion of the Mojave Desert Air Basin (MDAB), which is overseen by both the EKAPCD and MDAQMD. The EKAPCD has jurisdiction over air quality management in the Mojave Desert portion of Kern County, while the MDAQMD is the air pollution control agency for eastern portion of the MDAB that includes San Bernardino County and Riverside County's Palo Verde Valley. The nonattainment statues for the MDAB under both air pollution control agencies are applicable to the project. Based on the federal attainment status for the MDAB, Table 2 lists the *de minimis* rates that apply to the Kern County (Eastern Kern) and San Bernardino County portions of the MDAB. These levels apply to annual emissions generated during construction and operation of the proposed action under federal agency control.

[5] USEPA. 2020. "De Minimis Emission Levels." Last modified: May 21, 2020. https://www.epa.gov/general-conformity/de-minimis-emission-levels (accessed March 2021).
[6] USAF. 2020. Air Force Manual 32-7002 Environmental Compliance and Pollution Prevention. February. https://static.e-publishing.af.mil/production/1/af_a4/publication/afman32-7002/afman32-7002.pdf (accessed April 2021).
[7] USAF. 2017. Air Force Instructions 32-7040 Air Quality Compliance and Resource Management. December. https://static.e-publishing.af.mil/production/1/eglinafb/publication/afi32-7040_eglinafbsup/afi32-7040_eglinafbsup.pdf (accessed April 2021).

Table 2 General Conformity De Minimis Emission Rates for the Kern County (Eastern Kern) and San Bernardino County Portion of the Mojave Desert Air Basin

Pollutant	Federal Attainment Status [2] Kern County (Eastern Kern)	De Minimis Emission Rate (tons/year)[1]	Federal Attainment Status[2] San Bernardino County	De Minimis Emission Rate (tons/year)[1]
Ozone (VOC and NO_X)	Nonattainment – Severe for 2008 Ozone Standard	25[3]	Nonattainment Severe-15[4]	25
NO_2	Unclassified/Attainment[2]	N/A	Unclassified/Attainment[2]	N/A
CO	Unclassified/Attainment[2]	N/A	Unclassified/Attainment[2]	N/A
PM_{10}	Nonattainment Serious[2]	70	Nonattainment – Moderate[2]	100
$PM_{2.5}$	Unclassified/Attainment[2]	N/A	Unclassified/Attainment[2]	N/A
SO_2	Unclassified/Attainment[2]	N/A	Unclassified/Attainment[2]	N/A
Lead	Unclassified/Attainment[2]	N/A	Unclassified/Attainment[2]	N/A

N/A = not applicable (Kern County [Eastern Kern] and San Bernardino County is not a designated nonattainment or maintenance area for these pollutants); VOC = volatile organic compounds; NO_x = nitrogen oxides; NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter; SO_2 = sulfur dioxide

[1] USEPA. 2017. "De Minimis Tables." Last modified: August 4, 2017. https://www.epa.gov/general-conformity/de-minimis-tables (accessed April 2021)

[2] USEPA. 2020. "Current Nonattainment Counties for All Criteria Pollutants. Last modified: March 31, 2021. https://www3.epa.gov/airquality/greenbook/ancl.html (accessed April 2021).

[3] Kern County (Eastern Kern) is designated Nonattainment – Moderate for the 2015 Ozone Standard. The final rule for the 2015 ozone standard was signed October 1, 2015, and effective December 28, 2015. However, the previous (2008) O_3 standards are not revoked and remain in effect for designated areas. Therefore, the de minimis rate for a severe nonattainment designation is used for conformity.

[4]This designation status is only applicable to the Los Angeles and San Bernardino Counties within the West Mojave Desert.

In addition, this analysis compared the annual criteria pollutant emissions to the significance thresholds established by the EKAPCD and MDAQMD. These thresholds are not for General Conformity Applicability but were developed by the Air Districts to represent the level at which a project's emissions would result in cumulatively considerable contribution to the Air Basin's existing air quality conditions and would conflict with the Air District's attainment goals. Exceeding the thresholds indicates that the project would have a potentially significant impact under the California Environmental Quality Act (CEQA). Thresholds from the Kern County *Guidelines for Preparing an Air Quality Assessment for Use in Environmental Impact Reports*[8] and the MDAQMD's *California Environmental Quality Act (CEQA) and Federal Conformity Guidelines*[9] are referenced in this report only for informational purposes. See Table 3 for the CEQA significance thresholds.

[8] Kern County Planning Department. 2006.Guidelines for Preparing an Air Quality Assessment for use in Environmental Impact Reports. December. http://www.kernair.org/Documents/CEQA/AirQualityAssessmentPreparationGuidelines.pdf (accessed June 2021).
[9] MDAQMD. 2020. MDAQMD California Environmental Quality Act (CEQA) and Federal Conformity Guidelines. February. https://www.mdaqmd.ca.gov/home/showpublisheddocument/8510/637406182097070000 (accessed June 2021).

Table 3 CEQA Air Quality Thresholds of Significance

Pollutant	Kern County	MDAQMD Annual Thresholds (tons per year)
CO	N/A	100
NO_x	25	25
ROG/VOC	25	25
SO_x	N/A	25
PM_{10}	15	15
$PM_{2.5}$	N/A	12

CO = Carbon Monoxide; NOx = Nitrogen Oxides; ROG = Reactive Organic Gases; VOC = Volatile Organic Compounds; SOx = Sulfur Oxide; PM10 = Particulate Matter with a diameter no more than 10 microns; PM2.5 = Particulate Matter with a diameter no more than 2.5 microns
Source: Kern County 2006 and MDAQMD 2020

For GHG emissions, the CEQ rescinded the 2019 *Draft NEPA Guidance on Consideration of Greenhouse Gas Emissions* and is currently updating the 2016 *Guidance on GHG and Climate Change.* In the interim, the CEQ encourages all agencies to use available tools resources for evaluating GHG emissions, including the 2016 guidance.[10] The 2016 guidance does not establish a significance threshold for GHG emissions, and the CEQ cautions against an in-depth analysis because climate change impacts are not attributable to a single action. Instead, it is recommended that the "rule of reason" and the "concept of proportionality" be used instead to evaluate GHG emissions.[11] As described in the guidance, the rule of reason is inherent in NEPA and the CEQ regulations, allowing agencies to determine how to consider an environmental effect and prepare an analysis based on available information and expertise. Per the guidance, under the concept of proportionality, agencies should discuss impacts in proportion to their potential significance.

However, both EKAPCD and MDAQMD have established GHG significance thresholds for CEQA within their jurisdiction to determine if a project would have a cumulatively considerable impact. In lieu of formalized NEPA guidance, the thresholds established by both Air Districts were also used in support of the analysis. The EKAPCD GHG threshold is 25,000 tons per year[12] and the MDAQMD threshold is 100,000 tons per year[13]. Therefore, the annual GHG emissions generated by the proposed action are qualitatively and quantitatively assessed in this analysis.

Methodology

The sources of construction emissions include combustion of gasoline and diesel fuels by on-road vehicles and off-road equipment as well as fugitive dust from grading and trenching activities. The Air

[10] Council on Environmental Quality. 2021. "Notice of rescission of draft guidance". February 19. https://www.federalregister.gov/documents/2021/02/19/2021-03355/national-environmental-policy-act-guidance-on-consideration-of-greenhouse-gas-emissions (accessed April 201).

[11] CEQ. 2016. Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in the National Environmental Policy Act Reviews. August 1. https://ceq.doe.gov/docs/ceq-regulations-and-guidance/nepa_final_ghg_guidance.pdf (accessed April 2021).

[12] EKAPCD. 2012. Eastern Kern Air Pollution Control District Policy Addendum to CEQA Guidelines Addressing GHG emission Impacts for Stationary Source Projects When Serving As Lead CEQA Agency. March. http://www.kernair.org/Documents/CEQA/EKAPCD%20CEQA%20GHG%20Policy%20Adopted%203-8-12.pdf (accessed June 2021).

[13] MDAQMD. 2020. MDAQMD California Environmental Quality Act (CEQA) and Federal Conformity Guidelines. February. https://www.mdaqmd.ca.gov/home/showpublisheddocument/8510/637406182097070000 (accessed June 2021).

Force's ACAM (version 5.0) was used to quantify the potential air pollutant emissions associated with the project. Total annual emissions associated with the proposed action were compared to the applicable *de minimis* rates shown in Table 2.

For the model, the Edwards AFB was selected as the applicable AFB. The default regulatory area standards for criteria pollutants and existing base emissions for Edwards AFB were used. The Construction and Demolition Activity was selected to model construction of the gen-tie route. Kern County and San Bernardino County were selected as the Activity Location. For the Regulatory Area, Kern County (Eastern Kern), San Bernardino County, and the Los Angeles-San Bernardino Counties were selected.

For construction, the construction schedule and equipment listed (see Table 1) described in the *Aratina Solar Project Air Quality and Greenhouse Gas Study* prepared by Rincon Consultants on February 2021 to support CEQA environmental review were used.[14] Since the exact construction schedule is to be determined, the construction start date was assumed to be October 1, 2021 and last 172 workdays. This assumption is based off the schedule for the first two phases of the Aratina Solar Farm project. The Site Grading and Paving phases in ACAM were used to represent the construction of the proposed action. Since the project is located in both Kern County (EKAPCD jurisdiction) and San Bernardino County (MDAQMD jurisdiction), the project was modeled with separate details for each county and Air Districts. A quarter of the project was assumed to be in the EKACPD area (approximately 4.18 acres) and the remaining three quarters were assumed to be in MDAQMD area (approximately 12.53 acres).

In the Site Grading phase, the default off-road equipment was modified with the project-specific equipment list (see Table 1), and the trip commutes were all changed to be 40-mile round trips to match the trip lengths used in the February 2021 technical study prepared for the Aratina Solar Farm project by Rincon Consultants. The construction area to be disturbed (16.71 acres or 727,888 square feet) was used to represent the area to be graded. For the EKAPCD model, approximately 181,972 square feet were assumed to be graded, while for the MDAQMD model approximately 545,916 square feet were assumed to be graded. The Paving phase was used to model only the paving associated with the access roads and spur roads. The permanent area (8.99 acres or 391,604 square feet) to be disturbed was used to represent the area to be paved. In the EKACPCD model 97,901 acres would be paved and 293,703 acres would be paved in the MDAQMD model. The default equipment quantities and hours were changed to zero since the Site Grading phase was used to model the impacts from off-road equipment usage. The required minimization measures were not included in the model to provide a conservative General Conformity screening analysis. Criteria pollutant emissions would be reduced further with implementation of the required measures.

In addition, the fugitive dust emissions from vehicles traveling on unpaved roads were calculated off-model since ACAM does not include these emissions. These emissions were calculated off-model using emission factors obtained from the USEPA AP-42 *Compilation of Air Pollutant Emission Factors*.[15] These emissions factors are consistent with the emission factors also used in the Aratina Solar Farm project technical study. Based on Table 1, seven trucks could potentially be traveling onsite on unpaved roads (the crew trucks were assumed to only travel on the paved existing roadways). These seven trucks were

[14] Rincon Consultants, Inc. 2021. Aratina Solar Project Air Quality and Greenhouse Gas Study. February.
[15] United States Environmental Protection Agency (USEPA). 2006. AP-42 Fifth Edition Compilation of Air Pollutant Emission Factors. http://www.epa.gov/ttnchie1/ap42/

assumed to traveling along the length of the gen-tie route (6.5 miles). Thus, a trip length of 13 miles was used to represent the trucks traveling back and forth onsite with the vehicles operating daily during the entire construction period (172 workdays). A travel limit of 15 miles per hour was also assumed. The fugitive dust emissions from vehicle travel was added to the total project construction emissions.

Impact Analysis

General Conformity Assessment

Table 4 and Table 5 presents the total annual criteria air pollutants that would be generated during construction of the proposed action. Table 4 and Table 5 also compares the maximum total annual emissions to the applicable *de minimis* rates and Air District CEQA significance thresholds (for informational purposes only). The total and maximum total annual emissions for other criteria air pollutants and GHGs are also reported for informational purpose.

As shown in Table 4, the maximum total emissions from the project would not exceed the 25 tons per year *de minimis* rate for volatile organic compounds (VOC) and nitrogen oxides (NO_x) or the 70 tons per year *de minimis* rate for PM_{10}. The emissions also would not exceed the EKAPCD CEQA significance thresholds. As shown in Table 5, the maximum VOC and NO_x emissions would not exceed the 25 tons per year *de minimis* rate nor do the PM_{10} emissions exceed the 100 tons per year *de minimis* rate for PM_{10}. Except for PM_{10} the criteria pollutant emissions shown in Table 5 would not exceed the MDAQMD thresholds. The PM_{10} emissions are uncontrolled emissions that do not account for the fugitive dust measures and exhaust control measures that would be implemented, as described under *Required Minimization Measures*, which would further reduce the estimated annual emissions for construction activities. Furthermore, as discussed above, Rincon Consultants provided additional control measures (Recommendations AQ-1 and AQ-3) to reduce construction-related PM_{10} emissions to a level below the EKAPCD's and MDAQMD's CEQA PM_{10} significance threshold of 15 tons per year in the *Aratina Solar Project Air Quality and Greenhouse Gas Study* from February 2021. Refer to the technical study for further details regarding the recommendations and the project's compliance with CEQA. Therefore, since the proposed action would not exceed the applicable *de minimis* rates, the proposed action conforms to the SIP, and a General Conformity determination is not necessary. The ACAM results and fugitive dust emissions from unpaved road calculations are in Attachment 1.

Table 4 Total Annual Emissions for Proposed Action in EKAPCD Jurisdiction

	Estimated Annual Emissions (tons/year)								
Year	**VOC**	**NO_X**	**PM_{10}[1]**	**CO**	**SO_x**	**$PM_{2.5}$[1]**	**Pb**	**NH_3**	**CO_2e**
Construction									
2021	0.4	2.5	5.8	1.8	<0.1	0.1	0	0	704
2022	0.8	4.7	11.1	3.5	<0.1	0.2	0	0	1,343
Maximum Annual Emissions	**0.8**	**4.7**	**11.1**	**3.5**	**<0.1**	**0.2**	**0**	**0**	**1,343**
De Minimis Rates	25	25	70	--	--	--	--	--	--
De Minimis Rate Exceeded?	No	No	No	N/A	N/A	N/A	N/A	N/A	N/A
Kern County Threshold	25	25	15	N/A	N/A	N/A	N/A	N/A	25,000
Exceed Threshold?	No	No	No	N/A	N/A	N/A	N/A	N/A	N/A

[1]Includes the unpaved road fugitive dust emissions

VOC: volatile organic compounds; NO_X: nitrogen oxides; PM_{10}: particulate matter with a diameter of 10 microns or less; CO: carbon monoxide; SO_x: sulfur oxide; $PM_{2.5}$: particulate matter with a diameter of 2.5 or less; Pb: lead; NH_3: ammonia; CO_2e: carbon dioxide equivalent; N/A = not applicable

See Attachment 1 for ACAM results and other calculations.

Table 5 Total Annual Emissions for Proposed Action in MDAQMD Jurisdiction

	Estimated Annual Emissions (tons/year)								
Year	**VOC**	**NO_X**	**PM_{10}[1]**	**CO**	**SO_x**	**$PM_{2.5}$[1]**	**Pb**	**NH_3**	**CO_2e**
Construction									
2021	0.4	2.5	17.3	1.9	<0.1	0.2	0	0	723
2022	0.8	4.8	32.8	3.5	<0.1	0.3	0	0	1,379
Maximum Annual Emissions	**0.8**	**4.8**	**32.8**	**3.5**	**<0.1**	**0.3**	**0**	**0**	**1,379**
De Minimis Rates	25	25	100	--	--	--	--	--	--
De Minimis Rate Exceeded?	No	No	No	N/A	N/A	N/A	N/A	N/A	N/A
MDAQMD Threshold	25	25	15	100	25	12	0.6	N/A	100,00
Exceed Threshold?	No	No	Yes[2]	No	No	No	No	N/A	No

[1]Includes the unpaved road fugitive dust emissions. [2]Emissions are based on uncontrolled emissions. The emissions do not include the required mitigation measures nor dust control measures that would further reduce emissions.

VOC: volatile organic compounds; NO_X: nitrogen oxides; PM_{10}: particulate matter with a diameter of 10 microns or less; CO: carbon monoxide; SO_x: sulfur oxide; $PM_{2.5}$: particulate matter with a diameter of 2.5 or less; Pb: lead; NH_3: ammonia; CO_2e: carbon dioxide equivalent; N/A = not applicable

See Attachment 1 for ACAM results and other calculations.

Climate Change and Greenhouse Gases

The project would generate GHG emissions directly and indirectly during construction and routine operation and maintenance activities. Table 4 and Table 5 lists the estimated construction-related GHGs from the proposed action. However, the construction and operation of new renewable energy facilities would offset GHG emissions by allowing for the replacement and decommissioning of fossil-fueled power plants that generate high levels of GHG emissions. The project would facilitate the provision of solar-generated electricity each year to the power grid, which would be used instead of electricity generated by fossil fuels. The proposed action would convey up to 600 megawatts (MW) of renewable energy to the electric gride to assist the State of California in achieving its 50 percent Renewables Portfolio Standard (RPS) by 2030 and its 100 percent clean energy goal by 2050. Therefore, the project would result in a lifetime reduction of GHG emissions and would be regionally beneficial because it would provide renewable energy for the State.

In addition, the GHG emissions generated from construction-related activities in the EKAPCD area would total approximately 2,047 MT CO_2e and 2,102 MT CO_2e in the MDAQMD area. The total construction emissions would not exceed the EKAPCD CEQA threshold of 25,000 MT CO_2e per year nor the MDAQMD CEQA threshold of 100,00 MT CO_2e, respectively. The project would not result in a cumulatively considerable contribution to a significant cumulate impact under CEQA. No further consideration or reporting is necessary.

Conclusion

The proposed action would generate criteria pollutants and GHG emissions during construction. Based on the results from the ACAM, the project would not exceed the *de minimis* rates of 25 tons per year for ozone (VOC and NO_x), 70 tons for $PM_{10,}$ or 100 tons for PM_{10} established by the USEPA. The project would also have a net positive effect on climate change by facilitating the construction and operation of a renewable solar energy project that would replace fossil-fueled power plants and provide a cleaner source of electricity. Thus, the project is consistent with the CAA General Conformity rule and would reduce GHG emissions on a regional level by facilitating the production of energy from a renewable non-carbon-based source.

Sincerely,
Rincon Consultants, Inc.

Mimi McNamara
Environmental Planner

Abe Leider, AICP CEP
Principal

Attachment

Attachment 1 ACAM Modeling and Unpaved Road Calculations

Attachment 1

ACAM Modeling and Unpaved Road Calculations

AIR CONFORMITY APPLICABILITY MODEL REPORT
RECORD OF CONFORMITY ANALYSIS (ROCA)

1. General Information: The Air Force's Air Conformity Applicability Model (ACAM) was used to perform an analysis to assess the potential air quality impact/s associated with the action in accordance with the Air Force Manual 32-7002, Environmental Compliance and Pollution Prevention; the Environmental Impact Analysis Process (EIAP, 32 CFR 989); and the General Conformity Rule (GCR, 40 CFR 93 Subpart B). This report provides a summary of the ACAM analysis.

a. Action Location:

Base: EDWARDS AFB
State: California
County(s): San Bernardino; Kern
Regulatory Area(s): East Kern Co, CA; Kern Co (Eastern Kern), CA; Los Angeles-San Bernardino Cos. (W Mojave Desert), CA; San Bernardino Co, CA

b. Action Title: Aratina Transmission Line

c. Project Number/s (if applicable):

d. Projected Action Start Date: 10 / 2021

e. Action Description:

Power generated by the Aratina Solar Farm would be delivered from the project's onsite substation to the existing SCE Kramer Substation via an up to 6.5-mile 230 kilovolt (kV) electrical transmission line. There would be a total of 53 transmission support structures erected with the right of way and be spaced 500 feet to 700 feet apart. The transmission structure heights would be generally 125 feet above ground with a minimum ground clearance of 30 feet. Communications cable or fiber cable would be installed within a trench that runs parallel with the transmission line. The proposed 230 kV line would be located entirely within the existing Edwards AFB Utility Corridor 5. The proposed 230 kV line would be located immediately south of the existing SCE overhead transmission line and direct road that spans east to west along a portion of this corridor. This allows for maximum use of existing dirt roads and therefore minimizing new ground disturbance. No action alternative would probably reroute the transmission lines through private-owned property.

f. Point of Contact:

Name: Mimi McNamara
Title: Environmental Planner
Organization: Rincon Consultants, Inc
Email: mmcnamara@rinconconsultants.com
Phone Number: 510-671-0181

2. Analysis: Total combined direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" and "steady state" (net gain/loss upon action fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

Based on the analysis, the requirements of this rule are: _____ applicable
__X__ not applicable

Conformity Analysis Summary:

2021

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
East Kern Co, CA			

AIR CONFORMITY APPLICABILITY MODEL REPORT
RECORD OF CONFORMITY ANALYSIS (ROCA)

VOC	0.408		
NOx	2.468		
CO	1.811		
SOx	0.007		
PM 10	5.522	70	No
PM 2.5	0.090		
Pb	0.000		
NH3	0.001		
CO2e	703.6		
Kern Co (Eastern Kern), CA			
VOC	0.408	50	No
NOx	2.468	50	No
CO	1.811		
SOx	0.007		
PM 10	5.522		
PM 2.5	0.090		
Pb	0.000		
NH3	0.001		
CO2e	703.6		
Los Angeles-San Bernardino Cos. (W Mojave Desert), CA			
VOC	0.418	25	No
NOx	2.538	25	No
CO	1.854		
SOx	0.007		
PM 10	16.386		
PM 2.5	0.092		
Pb	0.000		
NH3	0.001		
CO2e	722.6		
San Bernardino Co, CA			
VOC	0.418		
NOx	2.538		
CO	1.854		
SOx	0.007		
PM 10	16.386	100	No
PM 2.5	0.092		
Pb	0.000		
NH3	0.001		
CO2e	722.6		

2022

Pollutant	**Action Emissions (ton/yr)**	**GENERAL CONFORMITY**	
		Threshold (ton/yr)	**Exceedance (Yes or No)**
East Kern Co, CA			
VOC	0.778		
NOx	4.710		
CO	3.456		
SOx	0.013		
PM 10	10.538	70	No
PM 2.5	0.171		
Pb	0.000		
NH3	0.002		
CO2e	1342.8		

AIR CONFORMITY APPLICABILITY MODEL REPORT
RECORD OF CONFORMITY ANALYSIS (ROCA)

Kern Co (Eastern Kern), CA			
VOC	0.778	25~~-50~~	No
NOx	4.710	25~~-50~~	No
CO	3.456		
SOx	0.013		
PM 10	10.538		
PM 2.5	0.171		
Pb	0.000		
NH3	0.002		
CO2e	1342.8		
Los Angeles-San Bernardino Cos. (W Mojave Desert), CA			
VOC	0.798	25	No
NOx	4.843	25	No
CO	3.539		
SOx	0.014		
PM 10	31.271		
PM 2.5	0.176		
Pb	0.000		
NH3	0.002		
CO2e	1379.1		
San Bernardino Co, CA			
VOC	0.798		
NOx	4.843		
CO	3.539		
SOx	0.014		
PM 10	31.271	100	No
PM 2.5	0.176		
Pb	0.000		
NH3	0.002		
CO2e	1379.1		

2023 - (Steady State)

Pollutant	Action Emissions (ton/yr)	GENERAL CONFORMITY	
		Threshold (ton/yr)	Exceedance (Yes or No)
East Kern Co, CA			
VOC	0.000		
NOx	0.000		
CO	0.000		
SOx	0.000		
PM 10	0.000	70	No
PM 2.5	0.000		
Pb	0.000		
NH3	0.000		
CO2e	0.0		
Kern Co (Eastern Kern), CA			
VOC	0.000	50	No
NOx	0.000	50	No
CO	0.000		
SOx	0.000		
PM 10	0.000		
PM 2.5	0.000		
Pb	0.000		
NH3	0.000		

AIR CONFORMITY APPLICABILITY MODEL REPORT
RECORD OF CONFORMITY ANALYSIS (ROCA)

CO2e	0.0		
Los Angeles-San Bernardino Cos. (W Mojave Desert), CA			
VOC	0.000	25	No
NOx	0.000	25	No
CO	0.000		
SOx	0.000		
PM 10	0.000		
PM 2.5	0.000		
Pb	0.000		
NH3	0.000		
CO2e	0.0		
San Bernardino Co, CA			
VOC	0.000		
NOx	0.000		
CO	0.000		
SOx	0.000		
PM 10	0.000	100	No
PM 2.5	0.000		
Pb	0.000		
NH3	0.000		
CO2e	0.0		

None of estimated emissions associated with this action are above the conformity threshold values established at 40 CFR 93.153 (b); Therefore, the requirements of the General Conformity Rule are not applicable.

_____ _____

Mimi McNamara, Environmental Planner DATE

DETAIL AIR CONFORMITY APPLICABILITY MODEL REPORT

1. General Information

- Action Location

Base: EDWARDS AFB
State: California
County(s): San Bernardino; Kern
Regulatory Area(s): East Kern Co, CA; Kern Co (Eastern Kern), CA; Los Angeles-San Bernardino Cos. (W Mojave Desert), CA; San Bernardino Co, CA

- Action Title: Aratina Transmission Line

- Project Number/s (if applicable):

- Projected Action Start Date: 10 / 2021

- Action Purpose and Need:

The purpose of the Proposed Action is to facilitate transmission of the energy produced at 8minute Solar Energy's Aratina Solar Farm to the statewide electrical grid. The proposed transmission gen-tie line would connect the Aratina Solar Farm to the existing Southern California Edison (SCE) Kramer Substation to the east, located at the southwest corner of State Route 58 and State Route 395.

- Action Description:

Power generated by the Aratina Solar Farm would be delivered from the project's onsite substation to the existing SCE Kramer Substation via an up to 6.5-mile 230 kilovolt (kV) electrical transmission line. There would be a total of 53 transmission support structures erected with the right of way and be spaced 500 feet to 700 feet apart. The transmission structure heights would be generally 125 feet above ground with a minimum ground clearance of 30 feet. Communications cable or fiber cable would be installed within a trench that runs parallel with the transmission line. The proposed 230 kV line would be located entirely within the existing Edwards AFB Utility Corridor 5. The proposed 230 kV line would be located immediately south of the existing SCE overhead transmission line and direct road that spans east to west along a portion of this corridor. This allows for maximum use of existing dirt roads and therefore minimizing new ground disturbance. No action alternative would probably reroute the transmission lines through private-owned property.

- Point of Contact

Name: Mimi McNamara
Title: Environmental Planner
Organization: Rincon Consultants, Inc
Email: mmcnamara@rinconconsultants.com
Phone Number: 510-671-0181

- Activity List:

Activity Type		Activity Title
2.	Construction / Demolition	Aratina Transmission Line MDAQMD
3.	Construction / Demolition	Aratina Transmission EKAPCD

Emission factors and air emission estimating methods come from the United States Air Force's Air Emissions Guide for Air Force Stationary Sources, Air Emissions Guide for Air Force Mobile Sources, and Air Emissions Guide for Air Force Transitory Sources.

2. Construction / Demolition

2.1 General Information & Timeline Assumptions

DETAIL AIR CONFORMITY APPLICABILITY MODEL REPORT

- Activity Location
County: San Bernardino
Regulatory Area(s): Los Angeles-San Bernardino Cos. (W Mojave Desert), CA; San Bernardino Co, CA

- Activity Title: Aratina Transmission Line MDAQMD

- Activity Description:
Construction would temporarily disturb approximately 16.71 acres (727,888 square feet) due to structure erection, wire, pulling, access roads, and trenching. Used for Site Grading. Assume 1/4 in EKAPCD and 3/4 in MDAQMD. Approximately 8.99 acres (391,604 square feet) would be permanently disturbed due to facilities and roadways. Used for paving, Water would be used onsite to limit fugitive dust emissions. The timing of construction would be coordinated with Edwards AFB with the majority of construction occurring between 6:00 am to 5:00 pm, Monday through Friday. Work Hours estimated at 8 hr/day.

- Activity Start Date
Start Month: 10
Start Month: 2021

- Activity End Date
Indefinite: False
End Month: 6
End Month: 2022

- Activity Emissions:

Pollutant	Total Emissions (TONs)
VOC	1.216657
SO_x	0.021079
NO_x	7.381327
CO	5.393214
PM 10	47.656564

Pollutant	Total Emissions (TONs)
PM 2.5	0.267531
Pb	0.000000
NH_3	0.003352
CO_2e	2101.7

2.1 Site Grading Phase

2.1.1 Site Grading Phase Timeline Assumptions

- Phase Start Date
Start Month: 10
Start Quarter: 1
Start Year: 2021

- Phase Duration
Number of Month: 8
Number of Days: 22

2.1.2 Site Grading Phase Assumptions

- General Site Grading Information
Area of Site to be Graded (ft^2): 545916
Amount of Material to be Hauled On-Site (yd^3): 0
Amount of Material to be Hauled Off-Site (yd^3): 0

- Site Grading Default Settings
Default Settings Used: No
Average Day(s) worked per week: 5

DETAIL AIR CONFORMITY APPLICABILITY MODEL REPORT

- Construction Exhaust

Equipment Name	Number Of Equipment	Hours Per Day
Bore/Drill Rigs Composite	1	8
Cement and Mortar Mixers Composite	1	11
Cranes Composite	1	8
Graders Composite	1	8
Off-Highway Trucks Composite	6	8
Rubber Tired Dozers Composite	1	8
Surfacing Equipment Composite	1	11

- Vehicle Exhaust

Average Hauling Truck Capacity (yd^3): 20
Average Hauling Truck Round Trip Commute (mile): 40

- Vehicle Exhaust Vehicle Mixture (%)

	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC
POVs	0	0	0	0	0	100.00	0

- Worker Trips

Average Worker Round Trip Commute (mile): 40

- Worker Trips Vehicle Mixture (%)

	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC
POVs	50.00	50.00	0	0	0	0	0

2.1.3 Site Grading Phase Emission Factor(s)

- Construction Exhaust Emission Factors (lb/hour)

Bore/Drill Rigs Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0460	0.0017	0.3219	0.5007	0.0053	0.0053	0.0041	164.99
Cement and Mortar Mixers Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0085	0.0001	0.0535	0.0414	0.0021	0.0021	0.0007	7.2674
Cranes Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0845	0.0013	0.6033	0.3865	0.0228	0.0228	0.0076	128.82
Graders Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0860	0.0014	0.5212	0.5747	0.0247	0.0247	0.0077	132.93
Off-Highway Trucks Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.1369	0.0026	0.7382	0.5475	0.0246	0.0246	0.0123	260.39
Rubber Tired Dozers Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.2015	0.0024	1.4660	0.7661	0.0581	0.0581	0.0181	239.53
Surfacing Equipment Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0779	0.0016	0.5953	0.3859	0.0216	0.0216	0.0070	166.13

- Vehicle Exhaust & Worker Trips Emission Factors (grams/mile)

	VOC	SO_x	NO_x	CO	PM 10	PM 2.5	Pb	NH_3	CO_2e
LDGV	000.114	000.003	000.084	000.992	000.047	000.020		000.023	00298.845

LDGT	000.288	000.004	000.178	001.871	000.048	000.021		000.024	00379.038
HDGV	000.600	000.011	001.339	008.875	000.183	000.078		000.045	01128.468
LDDV	000.026	000.003	000.125	000.281	000.060	000.032		000.008	00271.718
LDDT	000.094	000.003	000.533	000.594	000.112	000.082		000.008	00364.857
HDDV	000.194	000.014	004.796	001.133	000.211	000.117		000.028	01514.699
MC	004.452	000.002	001.252	023.791	000.019	000.009		000.054	00187.891

2.1.4 Site Grading Phase Formula(s)

- Fugitive Dust Emissions per Phase
$PM10_{FD} = (20 * ACRE * WD) / 2000$

$PM10_{FD}$: Fugitive Dust PM 10 Emissions (TONs)
20: Conversion Factor Acre Day to pounds (20 lb / 1 Acre Day)
ACRE: Total acres (acres)
WD: Number of Total Work Days (days)
2000: Conversion Factor pounds to tons

- Construction Exhaust Emissions per Phase
$CEE_{POL} = (NE * WD * H * EF_{POL}) / 2000$

CEE_{POL}: Construction Exhaust Emissions (TONs)
NE: Number of Equipment
WD: Number of Total Work Days (days)
H: Hours Worked per Day (hours)
EF_{POL}: Emission Factor for Pollutant (lb/hour)
2000: Conversion Factor pounds to tons

- Vehicle Exhaust Emissions per Phase
$VMT_{VE} = (HA_{OnSite} + HA_{OffSite}) * (1 / HC) * HT$

VMT_{VE}: Vehicle Exhaust Vehicle Miles Travel (miles)
HA_{OnSite}: Amount of Material to be Hauled On-Site (yd^3)
$HA_{OffSite}$: Amount of Material to be Hauled Off-Site (yd^3)
HC: Average Hauling Truck Capacity (yd^3)
(1 / HC): Conversion Factor cubic yards to trips (1 trip / HC yd^3)
HT: Average Hauling Truck Round Trip Commute (mile/trip)

$V_{POL} = (VMT_{VE} * 0.002205 * EF_{POL} * VM) / 2000$

V_{POL}: Vehicle Emissions (TONs)
VMT_{VE}: Vehicle Exhaust Vehicle Miles Travel (miles)
0.002205: Conversion Factor grams to pounds
EF_{POL}: Emission Factor for Pollutant (grams/mile)
VM: Vehicle Exhaust On Road Vehicle Mixture (%)
2000: Conversion Factor pounds to tons

- Worker Trips Emissions per Phase
$VMT_{WT} = WD * WT * 1.25 * NE$

VMT_{WT}: Worker Trips Vehicle Miles Travel (miles)
WD: Number of Total Work Days (days)
WT: Average Worker Round Trip Commute (mile)
1.25: Conversion Factor Number of Construction Equipment to Number of Works
NE: Number of Construction Equipment

$V_{POL} = (VMT_{WT} * 0.002205 * EF_{POL} * VM) / 2000$

V_{POL}: Vehicle Emissions (TONs)
VMT_{WT}: Worker Trips Vehicle Miles Travel (miles)
0.002205: Conversion Factor grams to pounds
EF_{POL}: Emission Factor for Pollutant (grams/mile)
VM: Worker Trips On Road Vehicle Mixture (%)
2000: Conversion Factor pounds to tons

2.2 Paving Phase

2.2.1 Paving Phase Timeline Assumptions

- Phase Start Date
Start Month: 10
Start Quarter: 1
Start Year: 2021

- Phase Duration
Number of Month: 8
Number of Days: 22

2.2.2 Paving Phase Assumptions

- General Paving Information
Paving Area (ft^2): 293703

- Paving Default Settings
Default Settings Used: No
Average Day(s) worked per week: 5

- Construction Exhaust

Equipment Name	Number Of Equipment	Hours Per Day
Rubber Tired Dozers Composite	1	8

- Vehicle Exhaust
Average Hauling Truck Round Trip Commute (mile): 40

- Vehicle Exhaust Vehicle Mixture (%)

	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC
POVs	0	0	0	0	0	100.00	0

- Worker Trips
Average Worker Round Trip Commute (mile): 40

- Worker Trips Vehicle Mixture (%)

	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC
POVs	50.00	50.00	0	0	0	0	0

2.2.3 Paving Phase Emission Factor(s)

- Construction Exhaust Emission Factors (lb/hour)

Bore/Drill Rigs Composite

	VOC	SO_x	NO_x	CO	PM 10	PM 2.5	CH_4	CO_2e
Emission Factors	0.0460	0.0017	0.3219	0.5007	0.0053	0.0053	0.0041	164.99
Cement and Mortar Mixers Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0085	0.0001	0.0535	0.0414	0.0021	0.0021	0.0007	7.2674
Cranes Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0845	0.0013	0.6033	0.3865	0.0228	0.0228	0.0076	128.82
Graders Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0860	0.0014	0.5212	0.5747	0.0247	0.0247	0.0077	132.93
Off-Highway Trucks Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.1369	0.0026	0.7382	0.5475	0.0246	0.0246	0.0123	260.39
Rubber Tired Dozers Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.2015	0.0024	1.4660	0.7661	0.0581	0.0581	0.0181	239.53
Surfacing Equipment Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0779	0.0016	0.5953	0.3859	0.0216	0.0216	0.0070	166.13

- Vehicle Exhaust & Worker Trips Emission Factors (grams/mile)

	VOC	SO_x	NO_x	CO	PM 10	PM 2.5	Pb	NH_3	CO_2e
LDGV	000.114	000.003	000.084	000.992	000.047	000.020		000.023	00298.845
LDGT	000.288	000.004	000.178	001.871	000.048	000.021		000.024	00379.038
HDGV	000.600	000.011	001.339	008.875	000.183	000.078		000.045	01128.468
LDDV	000.026	000.003	000.125	000.281	000.060	000.032		000.008	00271.718
LDDT	000.094	000.003	000.533	000.594	000.112	000.082		000.008	00364.857
HDDV	000.194	000.014	004.796	001.133	000.211	000.117		000.028	01514.699
MC	004.452	000.002	001.252	023.791	000.019	000.009		000.054	00187.891

2.2.4 Paving Phase Formula(s)

- Construction Exhaust Emissions per Phase

$CEE_{POL} = (NE * WD * H * EF_{POL}) / 2000$

CEE_{POL}: Construction Exhaust Emissions (TONs)
NE: Number of Equipment
WD: Number of Total Work Days (days)
H: Hours Worked per Day (hours)
EF_{POL}: Emission Factor for Pollutant (lb/hour)
2000: Conversion Factor pounds to tons

- Vehicle Exhaust Emissions per Phase

$VMT_{VE} = PA * 0.25 * (1 / 27) * (1 / HC) * HT$

VMT_{VE}: Vehicle Exhaust Vehicle Miles Travel (miles)
PA: Paving Area (ft^2)
0.25: Thickness of Paving Area (ft)
(1 / 27): Conversion Factor cubic feet to cubic yards (1 yd^3 / 27 ft^3)
HC: Average Hauling Truck Capacity (yd^3)
(1 / HC): Conversion Factor cubic yards to trips (1 trip / HC yd^3)
HT: Average Hauling Truck Round Trip Commute (mile/trip)

$V_{POL} = (VMT_{VE} * 0.002205 * EF_{POL} * VM) / 2000$

V_{POL}: Vehicle Emissions (TONs)
VMT_{VE}: Vehicle Exhaust Vehicle Miles Travel (miles)
0.002205: Conversion Factor grams to pounds
EF_{POL}: Emission Factor for Pollutant (grams/mile)
VM: Vehicle Exhaust On Road Vehicle Mixture (%)
2000: Conversion Factor pounds to tons

- Worker Trips Emissions per Phase
$VMT_{WT} = WD * WT * 1.25 * NE$

VMT_{WT}: Worker Trips Vehicle Miles Travel (miles)
WD: Number of Total Work Days (days)
WT: Average Worker Round Trip Commute (mile)
1.25: Conversion Factor Number of Construction Equipment to Number of Works
NE: Number of Construction Equipment

$V_{POL} = (VMT_{WT} * 0.002205 * EF_{POL} * VM) / 2000$

V_{POL}: Vehicle Emissions (TONs)
VMT_{VE}: Worker Trips Vehicle Miles Travel (miles)
0.002205: Conversion Factor grams to pounds
EF_{POL}: Emission Factor for Pollutant (grams/mile)
VM: Worker Trips On Road Vehicle Mixture (%)
2000: Conversion Factor pounds to tons

- Off-Gassing Emissions per Phase
$VOC_P = (2.62 * PA) / 43560$

VOC_P: Paving VOC Emissions (TONs)
2.62: Emission Factor (lb/acre)
PA: Paving Area (ft^2)
43560: Conversion Factor square feet to acre (43560 ft2 / acre)^2 / acre)

3. Construction / Demolition

3.1 General Information & Timeline Assumptions

- Activity Location
County: Kern
Regulatory Area(s): East Kern Co, CA; Kern Co (Eastern Kern), CA

- Activity Title: Aratina Transmission EKAPCD

- Activity Description:
Construction would temporarily disturb approximately 4 acres (181972 square feet) in EKAPCD due to structure erection, wire, pulling, access roads, and trenching. Used for Site Grading. Approximately 2.2 acres (97901 square feet) would be permanently disturbed due to facilities and roadways. Used for paving, Water would be used onsite to limit fugitive dust emissions. The timing of construction would be coordinated with Edwards AFB with the majority of construction occurring between 6:00 am to 5:00 pm, Monday through Friday. Work Hours estimated at 8 hr/day.

- Activity Start Date

DETAIL AIR CONFORMITY APPLICABILITY MODEL REPORT

Start Month: 10
Start Month: 2021

- Activity End Date
Indefinite: False
End Month: 6
End Month: 2022

- Activity Emissions:

Pollutant	Total Emissions (TONs)
VOC	1.185492
SO_x	0.020541
NO_x	7.178173
CO	5.267515
PM 10	16.059126

Pollutant	Total Emissions (TONs)
PM 2.5	0.260343
Pb	0.000000
NH_3	0.003240
CO_2e	2046.5

3.1 Site Grading Phase

3.1.1 Site Grading Phase Timeline Assumptions

- Phase Start Date
Start Month: 10
Start Quarter: 1
Start Year: 2021

- Phase Duration
Number of Month: 8
Number of Days: 22

3.1.2 Site Grading Phase Assumptions

- General Site Grading Information
Area of Site to be Graded (ft^2): 181972
Amount of Material to be Hauled On-Site (yd^3): 0
Amount of Material to be Hauled Off-Site (yd^3): 0

- Site Grading Default Settings
Default Settings Used: No
Average Day(s) worked per week: 5

- Construction Exhaust

Equipment Name	Number Of Equipment	Hours Per Day
Bore/Drill Rigs Composite	1	8
Cement and Mortar Mixers Composite	1	8
Cranes Composite	1	8
Graders Composite	1	8
Off-Highway Trucks Composite	6	8
Rubber Tired Dozers Composite	1	8
Surfacing Equipment Composite	1	8

- Vehicle Exhaust
Average Hauling Truck Capacity (yd^3): 20
Average Hauling Truck Round Trip Commute (mile): 40

- Vehicle Exhaust Vehicle Mixture (%)

	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC
POVs	0	0	0	0	0	100.00	0

- Worker Trips

Average Worker Round Trip Commute (mile): 40

- Worker Trips Vehicle Mixture (%)

	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC
POVs	50.00	50.00	0	0	0	0	0

3.1.3 Site Grading Phase Emission Factor(s)

- Construction Exhaust Emission Factors (lb/hour)

Bore/Drill Rigs Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0460	0.0017	0.3219	0.5007	0.0053	0.0053	0.0041	164.99
Cement and Mortar Mixers Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0085	0.0001	0.0535	0.0414	0.0021	0.0021	0.0007	7.2674
Cranes Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0845	0.0013	0.6033	0.3865	0.0228	0.0228	0.0076	128.82
Graders Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0860	0.0014	0.5212	0.5747	0.0247	0.0247	0.0077	132.93
Off-Highway Trucks Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.1369	0.0026	0.7382	0.5475	0.0246	0.0246	0.0123	260.39
Rubber Tired Dozers Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.2015	0.0024	1.4660	0.7661	0.0581	0.0581	0.0181	239.53
Surfacing Equipment Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0779	0.0016	0.5953	0.3859	0.0216	0.0216	0.0070	166.13

- Vehicle Exhaust & Worker Trips Emission Factors (grams/mile)

	VOC	SO_x	NO_x	CO	PM 10	PM 2.5	Pb	NH_3	CO_2e
LDGV	000.114	000.003	000.084	000.992	000.047	000.020		000.023	00298.845
LDGT	000.288	000.004	000.178	001.871	000.048	000.021		000.024	00379.038
HDGV	000.600	000.011	001.339	008.875	000.183	000.078		000.045	01128.468
LDDV	000.026	000.003	000.125	000.281	000.060	000.032		000.008	00271.718
LDDT	000.094	000.003	000.533	000.594	000.112	000.082		000.008	00364.857
HDDV	000.194	000.014	004.796	001.133	000.211	000.117		000.028	01514.699
MC	004.452	000.002	001.252	023.791	000.019	000.009		000.054	00187.891

3.1.4 Site Grading Phase Formula(s)

- Fugitive Dust Emissions per Phase

$PM10_{FD} = (20 * ACRE * WD) / 2000$

$PM10_{FD}$: Fugitive Dust PM 10 Emissions (TONs)
20: Conversion Factor Acre Day to pounds (20 lb / 1 Acre Day)
ACRE: Total acres (acres)

WD: Number of Total Work Days (days)
2000: Conversion Factor pounds to tons

- Construction Exhaust Emissions per Phase

$CEE_{POL} = (NE * WD * H * EF_{POL}) / 2000$

CEE_{POL}: Construction Exhaust Emissions (TONs)
NE: Number of Equipment
WD: Number of Total Work Days (days)
H: Hours Worked per Day (hours)
EF_{POL}: Emission Factor for Pollutant (lb/hour)
2000: Conversion Factor pounds to tons

- Vehicle Exhaust Emissions per Phase

$VMT_{VE} = (HA_{OnSite} + HA_{OffSite}) * (1 / HC) * HT$

VMT_{VE}: Vehicle Exhaust Vehicle Miles Travel (miles)
HA_{OnSite}: Amount of Material to be Hauled On-Site (yd^3)
$HA_{OffSite}$: Amount of Material to be Hauled Off-Site (yd^3)
HC: Average Hauling Truck Capacity (yd^3)
(1 / HC): Conversion Factor cubic yards to trips (1 trip / HC yd^3)
HT: Average Hauling Truck Round Trip Commute (mile/trip)

$V_{POL} = (VMT_{VE} * 0.002205 * EF_{POL} * VM) / 2000$

V_{POL}: Vehicle Emissions (TONs)
VMT_{VE}: Vehicle Exhaust Vehicle Miles Travel (miles)
0.002205: Conversion Factor grams to pounds
EF_{POL}: Emission Factor for Pollutant (grams/mile)
VM: Vehicle Exhaust On Road Vehicle Mixture (%)
2000: Conversion Factor pounds to tons

- Worker Trips Emissions per Phase

$VMT_{WT} = WD * WT * 1.25 * NE$

VMT_{WT}: Worker Trips Vehicle Miles Travel (miles)
WD: Number of Total Work Days (days)
WT: Average Worker Round Trip Commute (mile)
1.25: Conversion Factor Number of Construction Equipment to Number of Works
NE: Number of Construction Equipment

$V_{POL} = (VMT_{WT} * 0.002205 * EF_{POL} * VM) / 2000$

V_{POL}: Vehicle Emissions (TONs)
VMT_{WT}: Worker Trips Vehicle Miles Travel (miles)
0.002205: Conversion Factor grams to pounds
EF_{POL}: Emission Factor for Pollutant (grams/mile)
VM: Worker Trips On Road Vehicle Mixture (%)
2000: Conversion Factor pounds to tons

3.2 Paving Phase

3.2.1 Paving Phase Timeline Assumptions

- Phase Start Date

DETAIL AIR CONFORMITY APPLICABILITY MODEL REPORT

Start Month: 10
Start Quarter: 1
Start Year: 2021

- Phase Duration
Number of Month: 8
Number of Days: 22

3.2.2 Paving Phase Assumptions

- General Paving Information
Paving Area (ft^2): 97901

- Paving Default Settings
Default Settings Used: No
Average Day(s) worked per week: 5

- Construction Exhaust

Equipment Name	Number Of Equipment	Hours Per Day
Rubber Tired Dozers Composite	1	8

- Vehicle Exhaust
Average Hauling Truck Round Trip Commute (mile): 40

- Vehicle Exhaust Vehicle Mixture (%)

	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC
POVs	0	0	0	0	0	100.00	0

- Worker Trips
Average Worker Round Trip Commute (mile): 40

- Worker Trips Vehicle Mixture (%)

	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC
POVs	50.00	50.00	0	0	0	0	0

3.2.3 Paving Phase Emission Factor(s)

- Construction Exhaust Emission Factors (lb/hour)

Bore/Drill Rigs Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0460	0.0017	0.3219	0.5007	0.0053	0.0053	0.0041	164.99
Cement and Mortar Mixers Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0085	0.0001	0.0535	0.0414	0.0021	0.0021	0.0007	7.2674
Cranes Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0845	0.0013	0.6033	0.3865	0.0228	0.0228	0.0076	128.82
Graders Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.0860	0.0014	0.5212	0.5747	0.0247	0.0247	0.0077	132.93
Off-Highway Trucks Composite								
	VOC	**SO_x**	**NO_x**	**CO**	**PM 10**	**PM 2.5**	**CH_4**	**CO_2e**
Emission Factors	0.1369	0.0026	0.7382	0.5475	0.0246	0.0246	0.0123	260.39

Rubber Tired Dozers Composite								
	VOC	SO_x	NO_x	CO	PM 10	PM 2.5	CH_4	CO_2e
Emission Factors	0.2015	0.0024	1.4660	0.7661	0.0581	0.0581	0.0181	239.53
Surfacing Equipment Composite								
	VOC	SO_x	NO_x	CO	PM 10	PM 2.5	CH_4	CO_2e
Emission Factors	0.0779	0.0016	0.5953	0.3859	0.0216	0.0216	0.0070	166.13

- Vehicle Exhaust & Worker Trips Emission Factors (grams/mile)

	VOC	SO_x	NO_x	CO	PM 10	PM 2.5	Pb	NH_3	CO_2e
LDGV	000.114	000.003	000.084	000.992	000.047	000.020		000.023	00298.845
LDGT	000.288	000.004	000.178	001.871	000.048	000.021		000.024	00379.038
HDGV	000.600	000.011	001.339	008.875	000.183	000.078		000.045	01128.468
LDDV	000.026	000.003	000.125	000.281	000.060	000.032		000.008	00271.718
LDDT	000.094	000.003	000.533	000.594	000.112	000.082		000.008	00364.857
HDDV	000.194	000.014	004.796	001.133	000.211	000.117		000.028	01514.699
MC	004.452	000.002	001.252	023.791	000.019	000.009		000.054	00187.891

3.2.4 Paving Phase Formula(s)

- Construction Exhaust Emissions per Phase

$CEE_{POL} = (NE * WD * H * EF_{POL}) / 2000$

CEE_{POL}: Construction Exhaust Emissions (TONs)
NE: Number of Equipment
WD: Number of Total Work Days (days)
H: Hours Worked per Day (hours)
EF_{POL}: Emission Factor for Pollutant (lb/hour)
2000: Conversion Factor pounds to tons

- Vehicle Exhaust Emissions per Phase

$VMT_{VE} = PA * 0.25 * (1 / 27) * (1 / HC) * HT$

VMT_{VE}: Vehicle Exhaust Vehicle Miles Travel (miles)
PA: Paving Area (ft^2)
0.25: Thickness of Paving Area (ft)
(1 / 27): Conversion Factor cubic feet to cubic yards (1 yd^3 / 27 ft^3)
HC: Average Hauling Truck Capacity (yd^3)
(1 / HC): Conversion Factor cubic yards to trips (1 trip / HC yd^3)
HT: Average Hauling Truck Round Trip Commute (mile/trip)

$V_{POL} = (VMT_{VE} * 0.002205 * EF_{POL} * VM) / 2000$

V_{POL}: Vehicle Emissions (TONs)
VMT_{VE}: Vehicle Exhaust Vehicle Miles Travel (miles)
0.002205: Conversion Factor grams to pounds
EF_{POL}: Emission Factor for Pollutant (grams/mile)
VM: Vehicle Exhaust On Road Vehicle Mixture (%)
2000: Conversion Factor pounds to tons

- Worker Trips Emissions per Phase

$VMT_{WT} = WD * WT * 1.25 * NE$

VMT_{WT}: Worker Trips Vehicle Miles Travel (miles)
WD: Number of Total Work Days (days)
WT: Average Worker Round Trip Commute (mile)

1.25: Conversion Factor Number of Construction Equipment to Number of Works
NE: Number of Construction Equipment

$V_{POL} = (VMT_{WT} * 0.002205 * EF_{POL} * VM) / 2000$

V_{POL}: Vehicle Emissions (TONs)
VMT_{VE}: Worker Trips Vehicle Miles Travel (miles)
0.002205: Conversion Factor grams to pounds
EF_{POL}: Emission Factor for Pollutant (grams/mile)
VM: Worker Trips On Road Vehicle Mixture (%)
2000: Conversion Factor pounds to tons

- Off-Gassing Emissions per Phase
$VOC_P = (2.62 * PA) / 43560$

VOC_P: Paving VOC Emissions (TONs)
2.62: Emission Factor (lb/acre)
PA: Paving Area (ft^2)
43560: Conversion Factor square feet to acre (43560 ft2 / $acre)^2$ / acre)

1 - **Paved Roads in AP-42 13.2.1**, PM (lb/VMT) = $k(sL)^{0.91}*(W)^{1.02}*(1-P/4N)$, where sL=silt loading on road g/m^2 (0.015 g/m2 for limited access roads, 0.6 for < 500 vehicles, 0.2 for 500 - 5000 vehicles), W=average weight of all vehicles (2.4 tons), P = number of precipation days (36 for Kern County), N = number of days (365 for year); k=0.011 for PM, k=0.0022 for PM10, k=0.00054 for PM2.5

2- Unpaved Public Roads in AP-42 13.2.2, PM (lb/VMT) = $[k(s/12)^a(S/30)^d/(M/0.5)^c - C]*(1-P/365)$, where a=1, s=silt % (8.5 for construction site), S=speed, M=moisture, P = number precipation days (36 for Kern County); k=6.0, c=0.3, d=0.3, C=0.00047 for PM; k=1.8, c=0.2,d=0.5, C=0.00047 for PM10; k=0.18, c=0.2, d=0.5, C=0.00036 for PM2.5

Moisture %	Weight of vehicles (tons)	Silt %	Water twice/day	Precipitation (days / yr)	Number of Vehicles	Speed Offroad	% Offroad	Miles / day	HRS / Day	HRS / Year	Days / Yr	Unpaved road PM lb/mi	Unpaved road PM10 lb/mi	Unpaved road PM2.5 lb/mi	Unpaved road PM lb/day	Unpaved road PM10 lb/day	Unpaved road PM2.5 lb/day	Unpaved road PM ton/yr	Unpaved road PM10 ton/yr	Unpaved road PM2.5 ton/yr	Mitigated unpaved road PM lb/mi	Mitigated unpaved road PM10 lb/mi	Mitigated unpaved road PM2.5 lb/mi	Mitigated unpaved road PM lb/day	Mitigated unpaved road PM10 lb/day	Mitigated unpaved road PM2.5 lb/day	Mitigated unpaved road PM ton/yr	Mitigated unpaved road PM10 ton/yr	Mitigated unpaved road PM2.5 ton/yr
0.50	2.40	4.30	30%	24.00	7	15	100%	13.0	11.00	1,892.0	172.0	1.631	0.426	0.042	1.5E+02	3.9E+01	3.8E+00	12.76	3.33	0.33	1.1E+00	3.7E-01	3.6E-02	1.0E+02	3.3E+01	3.3E+00	8.9E+00	2.9E+00	2.9E-01

		Adjustment of PM10		Adjustment of PM2.5	
	% of Area	2021	2022	2021	2022
EKAPCD	0.25	0.32	0.51	0.03	0.05
MDAQMD	0.75	0.96	1.54	0.10	0.15

Appendix D. Cultural Resources Technical Report

Generation Tie Line Corridor for the Aratina Solar Farm Project

Cultural Resources Technical Report

prepared for

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July 2020

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Executive Summary

Rincon Consultants, Inc. (Rincon) was retained by 8minute Solar Energy, to conduct a Phase I cultural resources study for the Generation Tie (Gen-Tie) Line Corridor of the Aratina Solar Farm Project on Edwards Air Force Base in Kern County, California. The project proposes the installation of Gen-Tie lines connecting Southern California Edison (SCE) Holgate Substation to Aratina Substation, through Edwards Air Force Base (EAFB). The project involves construction along the Gen-Tie route totaling 6.5 miles in length. This cultural resources study includes a cultural resources records search, a pedestrian survey of the project area, and the preparation of this technical report. The project must comply with the requirements of Section 106 of the National Historic Preservation Act (NHPA) as the project occurs on federally-owned lands administered by EAFB. Rincon understands that the United States Department of the Air Force is the federal lead agency.

The cultural resource records search and survey identified 14 previously recorded cultural resources within the project Area of Potential Effect (APE) (EAFB 0802, EAFB 1330, EAFB 2721/P-15-006596, EAFB 2724, EAFB 2734, EAFB 2735, EAFB 3219, EAFB 3737, EAFB 3738, EAFB 3817, EAFB 3852, EAFB 3853, EAFB 3854, and EAFB 3893) and one newly recorded resource (ARA-S-003). Of the previously recorded resources, eight were relocated during the current survey effort (EAFB 0802, EAFB 2721, EAFB 2734, EAFB 2735, EAFB 3219, EAFB 3737, EAFB 3738, and EAFB 3852). The remaining six previously recorded resources were not relocated during the survey (EAFB 1330, EAFB 2724, EAFB 3817, EAFB 3853, EAFB 3854, and EAFB 3893).

Each of the previously recorded resources relocated by Rincon and ARA-S-003 have been recommended ineligible for listing in the NRHP and therefore do not qualify as historic properties under Section 106 of the NHPA. Rincon is not able to provide a recommendation of eligibility for the six sites that were not relocated. However, each site is presumed to have been destroyed by military activities and/or construction of the existing utility corridor. As the resources are no longer extant, they require no further management consideration under Section 106 of the NHPA.

Rincon recommends a finding of ***no effect to historic properties*** under Section 106 of NHPA. The archaeological sensitivity of the APE has been identified as low based on the project description; however, there is always a possibility of encountering unanticipated archaeological resources during ground disturbing activities. Standard conditions for the treatment of unanticipated discoveries are recommended. Archaeological and Native American monitoring may further reduce the likelihood of disturbing unknown cultural resources.

Unanticipated Discovery of Cultural Resources

If any prehistoric or historic artifacts, or other indications of archaeological resources such as unusual deposits of stone, bone or shell, stone artifacts, or historic trash deposits or foundations are discovered once ground-disturbing activities are underway, work in the immediate area should halt until the find can be evaluated by a qualified archaeologist. If the find is determined to qualify as a historic property, efforts to avoid or mitigate any potential adverse effects should be developed by the qualified archaeologist in consultation with EAFB environmental staff. The appropriate treatment (e.g., avoidance, data recovery) should be determined on a case-by-case basis depending on the nature of the find.

Unanticipated Discovery of Human Remains

The discovery of human remains is always a possibility during ground disturbing activities. If human remains are found the base archaeologist or designated representative shall be notified immediately. The base archaeologist, or designated representative, shall notify the County Coroner to determine the nature of the remains (e.g., modern vs. prehistoric). Should the remains be determined to be prehistoric in nature, EAFB shall comply with all appropriate federal laws and regulations (e.g., Native American Graves Protection and Repatriation Act).

1 Introduction

Rincon Consultants, Inc. (Rincon) was retained by 8minute Solar Energy, to conduct a Phase I cultural resources study for the Generation Tie (Gen-Tie) Line Corridor of the Aratina Solar Farm Project on Edwards Air Force Base (EAFB) in Kern County, California. The project consists of construction along the Gen-Tie Line Corridor totaling 6.5 miles in length. This cultural resources study includes a cultural resources records search, a pedestrian survey, and the preparation of this technical report according to the Archaeological Resources Management Report (ARMR) guidelines. The project must comply with the requirements of Section 106 of the National Historic Preservation Act (NHPA). Rincon understands that the United States Department of the Air Force is the federal lead agency.

1.1 Project Description

Power generated by the proposed Aratina Solar Farm would be delivered from the Aratina project site, located entirely on private land, via an up to 230 kV electrical transmission line originating from an on-site substation and terminating at the existing SCE Kramer Substation. The proposed line would be located entirely within an existing Edwards Air Force Base utility corridor (Corridor 5) and would utilize single- or double-circuit monopole and/or H-frame structures, typically spaced 500 to 700 feet apart.

1.2 Area of Potential Effects

The project consists of a 6.5-mile corridor through the northern extend of EAFB south of highway 58 between the City of Boron and Kramer Junction. The project lies within portions of Kern County and San Bernardino County.

36 Code of Federal Regulations (CFR) 800.16(d) defines the APE of a project as the "geographic area or areas within which a project may directly or indirectly cause changes in the character or use of historic properties if any such property exists." The APE includes all areas expected to be affected by the proposed undertaking, including staging and construction areas. The direct APE footprint for the project includes 150-foot-wide, 6.5-mile Gen-Tie alignment. Because the project will be constructed entirely within an existing utility corridor, Rincon assumes that no indirect APE is required as the project will not alter the existing setting of the APE. The APE is depicted in Figure 1a through Figure 1c.

Figure 1a *Confidential information removed from public review*

Figure 1b *Confidential information removed from public review*

Figure 1c *Confidential information removed from public review*

1.3 Regulatory Setting

Federal

Cultural resources are considered during federal undertakings chiefly under Section 106 of the NHPA of 1966 (as amended) through one of its implementing regulations, 36 CFR 800 (Protection of Historic Properties), and the National Environmental Policy Act. Properties of traditional religious and cultural importance to Native Americans are considered under Section 101(d)(6)(A) of NHPA. Other federal laws include the Archaeological and Historic Preservation Act of 1974, the American Indian Religious Freedom Act of 1978, the Archaeological Resources Protection Act of 1979, and the Native American Graves Protection and Repatriation Act of 1989, among others.

Section 106 of the NHPA (16 United States Code 470f) requires federal agencies to take into account the effects of their undertakings on any district, site, building, structure, or object included in or eligible for inclusion in the NRHP, and to afford the Advisory Council on Historic Preservation a reasonable opportunity to comment on such undertakings (36 CFR 800.1). Under Section 106, the significance of any adversely affected cultural resource is assessed and mitigation measures are proposed to reduce any impacts to an acceptable level. Significant cultural resources are those resources listed in or are eligible for listing in the NRHP per the criteria listed below (36 CFR 60.4).

According to Section 106, the quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and meet one or more of the following criteria:

A. Are associated with events that have made a significant contribution to the broad patterns of our history
B. Are associated with the lives of persons significant in our past
C. Embody the distinctive characteristics of a type, period, or method of installation, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction
D. Have yielded, or may be likely to yield, information important in prehistory or history

Personnel

Rincon Cultural Resources Principal Investigator Hannah Haas, M.A., Registered Professional Archaeologist (RPA), served as principal investigator for the study and co-authored this report. Ms. Haas meets the Secretary of the Interior's Professional Qualifications Standards for prehistoric and historic archaeology (NPS 1983). Ms. Haas conducted the cultural resources records search and is the primary author of this report. Rincon archaeologists Dustin Merrick, B.A. and Courtney Montgomery, B.A. conducted the pedestrian field survey of the APE. GIS Analysts Allysen Valencia prepared the figures found in this report. Rincon Principal and Archaeologist Christopher Duran, M.A., RPA, reviewed this report for quality control.

2 Natural and Cultural Setting

2.1 Natural Setting

The APE is located in the Mojave Desert within Edwards Air Force Base near the intersection of U.S. Highway 395 and Barstow Bakersfield Highway. The APE is situated at an average elevation of 780 meters (m) (2560 feet [ft]) above mean sea level (AMSL). Native plants within the APE would have included yuccas, Joshua trees, and cholla, with various other species of plant located in the Mojave Desert depending on elevation (National Park Service 2020). The APE consists generally of cholla, Joshua trees, creosote brush scrub, allscale scrub, and fourwing brush scrub.

2.2 Cultural Setting

Prehistoric Context

Table 1 Cultural Chronology for the Mojave Desert

Approximate Date Range	Temporal Period	Cultural Complex	Previously Known As
Pre-12,000 cal BP*	Late Pleistocene	Pre-Clovis	Early Man Pre-Projectile Point
12,000-10,000 cal BP	Terminal Pleistocene	Paleoindian	Clovis Big Game Hunting Tradition
10,000-8,000 cal BP.	Early Holocene	Lake Mojave	Western Pluvial Lakes Tradition
		Pinto	San Dieguito Complex
9,000-5,000 cal BP	Middle Holocene		Little Lake
		Deadman Lake	N/A
4,000-1,600 cal BP	Late Holocene	Gypsum	Newberry
1,600-850 cal BP		Rose Spring	Saratoga Springs I Haiwee
850 cal BP – Historic		Late Prehistoric	Shoshonean Marana Protohistoric

*cal BP refers to Before Present (BP) dates derived by radiocarbon dating, "calibrated" to the year 1950, which is used as the "modern carbon" reference point.

Source: Sutton et al. 2007:236

Pleistocene Period (12,000 to 10,000 cal BP)

The climate of the Pleistocene Period in the Mojave Desert is generally characterized as cool and wet (Sutton et al. 2007: 231). During this time, the Mojave Desert featured several pluvial lakes. The presence of lakes generally indicates an environment with plentiful food and water resources suitable for early human habitation, especially compared to the harsher desert environment now present. However, claims of pre-Clovis (ca. before 11,500 BP) archaeological sites in the Mojave Desert remain controversial and are not accepted by most professional archaeologists. Nonetheless,

it is possible that such occupation occurred and sites with reliable early dates may yet be found, as has happened elsewhere in the Americas.

The Clovis Complex is the earliest and only Paleo-Indian cultural complex widely accepted in the Mojave Desert (Sutton et al. 2007:233-234). Dating to approximately 11,500 BP, this complex is defined predominantly by large lanceolate-shaped bifaces with fluting, prepared to thin and flatten the base of the artifact for hafting. Other tools associated with the Clovis Complex include large side scrapers, blades derived from prepared cores, and a mixture of expedient flaked tools (Justice 2002:73). Paleo-Indian populations associated with fluted point technology consisted of small, mobile groups who hunted and gathered near permanent sources of water such as pluvial lakes. The tools associated with these populations are found most commonly in the drainage basins of the pluvial lakes (Sutton et al. 2007:234).

Fluted points have been interpreted traditionally as tools used for hunting Pleistocene megafauna due to their clear association with megafaunal remains in the Great Plains and Southwest, but most fluted points found in California have lacked corroborating Pleistocene radiocarbon dates (Arnold et al., 2004). One exception was found during excavations at China Lake in the early 1970s, where fluted points associated with burned remains of extinct megafauna were uncovered (Davis 1975). As Davis and Panlaqui (1978:31) noted, the sites at China Lake demonstrate that Paleo-Indians exploited many available resources, not just megafauna.

Evidence of terminal Pleistocene and early Holocene habitation in the Mojave Desert has remained sparse until recently. Evidence of late Pleistocene occupation was identified on the southern slopes of the Tehachapi Mountains near Cottonwood Creek in the form of a basal fragment of a fluted Clovis projectile point (Glennan, 1971, 1987). Basgall and Overly (2004) have found evidence of occupation near Pleistocene China Lake and Fort Irwin yielding radiocarbon dates from 9,500-8,000 cal BP.

Early Holocene (10,000 to 8,000 cal BP)

Warmer temperatures, reduced precipitation, and the eventual drying up of the Pleistocene pluvial lakes mark the onset of the Early Holocene. These changes are believed to have caused an irregular distribution of resources available to the Early Holocene inhabitants (Sutton et al. 2007:237). The shallow lakes and marshes of the Mojave Desert during this period were biologically productive, but surrounded by desert vegetation typical of later periods, initially dominated by white bursage and later, by creosote bush (Grayson 1993:199-200). The Lake Mojave Complex is the only clear complex in the region during this time and reflects an increasingly diversified subsistence strategy that was necessary for successful adaptation to climatic changes.

The Lake Mojave Complex is identified primarily by heavy, stemmed projectile points attributable to the Great Basin Stemmed series, such as Lake Mojave and Silver Lake. Other Lake Mojave Complex tools include bifaces, steep-edged unifaces, crescents, the occasional cobble-core tool, and, infrequently, ground stone implements (Justice 2002:91). Settlement organization components include extensive residential accumulations, workshops, and small camps containing a handful of formed tools (Sutton et al. 2007: 237).

While earlier research presumed a dependence on lacustrine subsistence strategies, recent studies have found Lake Mojave Complex sites in other contexts (e.g., Basgall 2005, Basgall and Jurich 2006, Giambastiani and Berg 2008:14). Sutton et al. (2007:237) stated that the Lake Mojave assemblages included tools that are “consistent with long-term curation and transport.” The presence of exotic

lithic materials and marine shell beads in Lake Mojave Complex assemblages further supports the assertion that these people were highly mobile and possibly traded with groups over long distances.

Middle Holocene (9,000 to 5,000 cal BP)

The middle Holocene climate was generally more arid than periods before and after, but experienced multiple oscillations between wetter and drier conditions throughout the middle Holocene. The desiccation of the lakes and marshes of the Pleistocene and early Holocene required the region's inhabitants to rely on streams and springs for water, resulting in lower occupational densities (Aikens 1978, Basgall 2000, Cleland and Spaulding 1992, Sutton 1996, Warren 1984). Average temperatures and aridity increased, peaking between 8000 and 6000 cal BP. Settlement patterns adapted, including a shift to upland settings where sources of water still existed and changes in tool assemblage content and diversity marking the emergence of the Pinto Complex (Sutton 1996).

Campbell and Campbell defined the Pinto Complex in 1935 based on their work at the Pinto Basin site, but the complex has a wider distribution throughout the Mojave Desert than previous ones. During the latter part of the Early Holocene, archaeological data indicate that the Pinto Complex overlaps the Lake Mojave Complex (Sutton et al., 2007:237). The Pinto Complex reflects shifts in subsistence patterns and adaptation to the shrinking of the Pleistocene lakes, including a greater emphasis on the exploitation of plants, with the continued pursuit of artiodactyls and smaller game. The broad distribution of this complex implies a high degree of residential mobility. The hallmarks of the Pinto Complex tool assemblage include concave base and bifurcate base projectile points with strong basal ears and more gradual shoulders (Justice 2002:126, Zyniecki 2003:12). Other diagnostic artifacts of this complex include domed and keeled scrapers, large and small leaf-shaped bifaces, core/cobble tools, large metates and milling slabs, and shaped and unshaped handstones.

Near the end of the middle Holocene the climate became increasingly hotter and more arid. Very few sites date to this period, falling between 5000 and 4000 cal BP. This suggests that populations were very low. It is possible that some areas were abandoned during this hot period (Sutton et al. 2007:241).

Late Holocene (4,000 cal BP to European Contact)

The climate of the late Holocene was similar to current conditions: cooler and moister than the middle Holocene, but not as cool and moist as the early Holocene. The climate remained highly variable with periods that included the Mojave lakes refilling to levels of earlier high stands, contrasted with at least two major droughts, circa 1124 to 904 BP, and circa 807 to 660 BP (Stine 1994). A cooler and wetter period occurred between 550 and 100 cal BP (Cleland and Spaulding 1992:4). These climatic changes at the onset of the late Holocene once again resulted in modified subsistence strategies and correlating tool kits of three progressive cultural complexes: Gypsum Complex, Rose Spring Complex, and Late Prehistoric Complex (or period).

Dart-point size projectile points including notched or eared (Elko), concave base (Humboldt), and small-stemmed (Gypsum) types characterized the projectile points of the Gypsum Complex. In addition to these diagnostic points, Gypsum Complex sites included leaf-shaped points, rectangular-based knives, flake scrapers, drills, and occasionally, large scraper planes, choppers, and hammerstones (Warren 1984:416). Manos and milling stones were common, and the mortar and pestle were also introduced during this period. Other artifacts found at Gypsum Complex sites include split-twig animal figurines, *Olivella* shell beads, and *Haliotis* beads and ornaments, which are indicative of trade with people from the southern California coast and southern Great Basin. The

inhabitants of the Mojave Desert exported high-quality locally available CCS tool stone such as obsidian, chalcedony, and chert in exchange for exotic materials.

By 1750 cal BP, a slightly cooler climate appears to have provided for increased population, based on a higher frequency of archaeological sites. The Rose Spring Complex was present from approximately 1815 to 915 cal BP, with regional temporal variations known as the Saratoga Springs, Haiwee, or Amargosa periods (Sutton 1996, Sutton et al. 2007:236). The smaller Rose Spring projectile points replaced the dart-size points of previous complexes and heralded the introduction of the bow and arrow (Yohe 1998). The bow and arrow provided its user a way to rapidly fire multiple projectiles during hunting or warfare and from a position of relative security compared to the atl-atl or spear. This technological innovation appears to correspond with the onset of the Numic expansion westward to the coast, which some researchers believe started from southeastern California (Bettinger and Baumhoff 1982, Grayson 1993). Bedrock milling features supplement portable milling stones in villages and ancillary sites within the California deserts.

The Late Prehistoric period (circa 900–250 cal BP) corresponds to the introduction of ceramic artifacts in the Mojave Desert region as well as replacement of Rose Spring projectile points with even smaller Desert Side-notched points and Cottonwood series points. Use of mortar and pestle became more widespread during this period and evidence of food storage facilities becomes increasingly common in the archaeological record. In the central Mojave Desert, the Mojave River became a primary focus of occupation, and trade networks increased along the Mojave River and over the San Gabriel Mountains (Sutton 1996).

Archeological evidence left by highly mobile hunter-gatherers in the Mojave Desert during the Late Prehistoric period is typified by sparse scatters of flaked stone, ground stone, and ceramic artifacts and features such as hearths, rock rings, and trails

2.3 Ethnographic Context

The APE is within a transitional zone that was occupied by multiple cultural groups including the Serrano, Kitanemuk and Tataviam (cf., Bean and Smith 1978; Blackburn and Bean 1978; Kroeber 1925; Sutton 1988). All of these groups are better associated with portions of the surrounding mountains – Serrano to the northeast, Kitanemuk to the northwest, Tataviam to the southwest – but all of them likely visited the Antelope Valley floor as part of their resource exploitation strategies. Ethnographic boundaries in the Mojave Desert are loosely defined, owing to the highly mobile nature of desert settlement and resource extraction strategies, as well as the variety of interpretations presented by previous researchers. The following sections provide brief overviews of the three groups within the APE likely to have ethnographically used the area.

Serrano

The Serrano occupied an area in and around the San Bernardino Mountains between approximately 450 and 3,350 meters (1,500-11,000 feet) above mean sea level. Their territory extended west of the Cajon Pass, east past Twentynine Palms, north of Victorville, and south to Yucaipa Valley. The Serrano language is part of the Serran division of a branch of the Takic family of the Uto-Aztecan linguistic stock (Mithun 2001:539, 543). The two Serran languages, Kitanemuk and Serrano, are closely related. Kitanemuk lands were northwest of Serrano lands. Serrano was spoken originally by a relatively small group located within the San Bernardino and Sierra Madre mountains, and the term “Serrano” has come to be ethnically defined as the name of the people in the San Bernardino Mountains (Kroeber 1925:611). The Vanyume, who lived along the Mojave River and associated

Mojave Desert areas and are also referred to as the Desert Serrano, spoke either a dialect of Serrano or a closely related language (Mithun 2001:543). Year-round habitation tended to be located on the desert floor, at the base of the mountains, and up into the foothills, with all habitation areas requiring year-round water sources (Bean and Smith 1978).

Most Serrano lived in small villages located near water sources (Bean and Smith 1978:571). Houses measuring 12 to 14 feet in diameter were domed and constructed of willow branches and tule thatching; they were occupied by a single extended family. Many of the villages had a ceremonial house, used both as a religious center and the residence of the lineage leaders. Additional structures within a village might include granaries and a large circular subterranean sweathouse. The sweathouses were typically built along streams or pools. A village was usually composed of at least two lineages. The Serrano were organized loosely along patrilineal lines and associated themselves with one of two exogamous moieties or "clans"—the Wahiyam (coyote) or the Tukum (wildcat) moiety.

The subsistence economy of the Serrano was one of hunting and collecting plant goods, with occasional fishing (Bean and Smith 1978:571). They hunted large and small animals, including mountain sheep, deer, antelope, rabbits, small rodents, and various birds, particularly quail. Plant staples consisted of seeds; acorn nuts of the black oak; piñon nuts; bulbs and tubers; and shoots, blooms, and roots of various plants, including yucca, berries, barrel cacti, and mesquite. The Serrano used fire as a management tool to increase yields of specific plants, particularly chía.

Trade and exchange were important aspects of the Serrano economy. Those living in the lower-elevation, desert floor villages traded foodstuffs with people living in the foothill villages who had access to a different variety of edible resources. In addition to inter-village trade, ritualized communal food procurement events, such as rabbit and deer hunts and piñon, acorn, and mesquite nut-gathering events, integrated the economy and helped distribute resources that were available in different ecozones.

Contact between Serrano and Europeans was relatively minimal prior to the early 1800s. As early as 1790, however, Serrano began to be drawn into mission life (Bean and Vane 2002). More Serrano were relocated to Mission San Gabriel in 1811 after a failed indigenous attack on that mission. Most of the remaining western Serrano were moved to an asistencia built near Redlands in 1819 (Bean and Smith 1978:573).

A smallpox epidemic in the 1860s killed many indigenous southern Californians, including many Serrano (Bean and Vane 2002). Oral history accounts of a massacre in the 1860s at Twentynine Palms may have been part of a larger American military campaign that lasted 32 days (Bean and Vane 2002:10). Surviving Serrano sought shelter at Morongo with their Cahuilla neighbors; Morongo later became a reservation (Bean and Vane 2002). Other survivors followed the Serrano leader, Santos Manuel, down from the mountains and toward the valley floors and eventually settled what later became the San Manuel Band of Mission Indians Reservation, formally established in 1891.

Both the San Manuel Band of Mission Indians and the Morongo Band of Mission Indians are federally recognized tribes and include Serrano. People of both tribes participate in cultural programs to revitalize traditional languages, knowledge, and practices.

Kitanemuk

The Kitanemuk are one of the least-understood ethnographic groups in California, despite being considered by researchers as the primary aboriginal inhabitants of Antelope Valley (Sutton 1979, 1987, 1988). Kitanemuk territory extended from the Tehachapi Mountains at the northwestern edge

of the Antelope Valley southeast to beyond Rosamond Lake, although their populations were most dense in the mountains at the southern end of the San Joaquin Valley (Blackburn and Bean 1978:564; Kroeber 1925:611). The Kitanemuk were primarily mountain dwellers who lived in semi-permanent village sites that functioned as year-round base camps; during the late winter and early spring, expeditions ventured onto the desert floor in pursuit of available seasonal resources (Earle 1997).

Kroeber (1925:611) noted that the Kitanemuk were a subdivision of the Serrano, and thus spoke a language of the Takic family that was similar to dialects spoken by groups living as far south and east as Yucca Valley and Twentynine Palms. Although some aspects of Kitanemuk social organization are similar to those of other Takic speaking groups, Blackburn and Bean (1978:564) argue that Kitanemuk ritual, mythology, and shamanism were most strongly shaped by their neighbors to the north (Kawaiisu and Tubatulabal) and west (Chumash). The Kitanemuk appear to have enjoyed particularly strong trade ties with coastal and inland Chumash groups (Blackburn and Bean 1978:564; Kroeber 1925:613). Modern-day descendants of the Kitanemuk live at the Tule River Reservation, Porterville, and Tejon Ranch (Four Directions Institute 2007).

Tataviam

Like the Kitenamuk, the Tataviam were not well documented by early ethnographers. However, researchers today generally agree that the Tataviam spoke a Uto-Aztecan language, most likely a Takic language (Hudson 1982). Tataviam territory included the upper Santa Clara River from Piru Creek eastward, extending over the Sawmill Mountains to the southwest edge of the Antelope Valley (King and Blackburn 1978). Their territory was bounded on the west and north by various Chumash groups; on the south by the Tongva (Gabrielino and Fernandeño, though some Tataviam were also identified as Fernandeño because of their association with Mission San Fernando); and to the east by the Kitanemuk and Serrano.

Exogamous marriage was common, with Tataviam intermarrying with Tongva, Chumash, and Kitanemuk neighbors (King and Blackburn 1978). King and Blackburn (1978) hypothesize that the Tataviam relied on yucca as a food source more than their neighbors because of the predominance of large south-facing slopes within their territory. Additional food resources included acorns, sage seeds, berries, small mammals, and deer. Settlement size ranged from 10 to 200 persons, with small settlements often ancillary to large villages. Archaeological evidence from Bower's Cave – located between Newhall and Piru – combined with ethnographic evidence suggest their ritual organization was similar to both the Chumash and Gabrielino, whose lifestyles were distinct from one another. By 1810, the Tataviam were almost completely "missionized" through baptism at Mission San Fernando.

2.4 Historic Setting

Post-European contact history for the state of California is divided generally into three periods: the Spanish Period (1769 to 1822), the Mexican Period (1822 to 1848), and the American Period (1848 to present). The following provides a general discussion of the history of California following European contact.

Spanish Period (1769 to 1822)

In 1542, Juan Rodriguez Cabrillo led the first European expedition to observe what is now called southern California. For more than 200 years, Cabrillo and other Spanish, Portuguese, British, and

Russian explorers sailed the Alta (upper) California coast and made limited inland expeditions, but they did not establish permanent settlements (Bean 1968, Rolle 2003).

Gaspar de Portolá and Franciscan Father Junípero Serra established the first Spanish settlement in Alta California at Mission San Diego de Alcalá in 1769. This was the first of 21 missions erected by the Spanish between 1769 and 1823. While Spanish missions were established in San Bernardino County, Native Americans in the region were influenced by other Native Americans migrating to the area, driven from their homelands by encroachment of the Spanish.

During this period, Spain also deeded ranchos to prominent citizens and soldiers, though very few in comparison to the following Mexican Period. To manage and expand herds of cattle on these large ranchos, colonists enlisted the labor of the surrounding Native American population (Engelhardt 1927a). The missions were responsible for administrating the local people as well as converting the population to Christianity (Engelhardt 1927b). Inevitably, this increased local population density and contact with diseases brought by Europeans greatly reduced the Native American population (McCawley 1996).

The first known Spanish explorers to enter the Mojave Desert were a group of soldiers led by Pedro Fages in 1772. In 1776, Friar Francisco Garcés, traveled through the area coming from the Colorado River (Hoover et al. 2002:321). Friar Garcés traveled as far as the Pacific coast along an ancient trade route, known as the Mojave Trail, and he named the Mojave River Arroyo de los Mártires (Stream of the Martyrs). The river was later named Rio de las Animas (River of Souls) by Fr. Joaquín Pasqual Nuez, who accompanied the 1819 expedition of Lt. Gabriel Moraga.

Mexican Period (1822 to 1848)

The Mexican period commenced when news of the success of the Mexican Revolution (1810-1821) against the Spanish crown reached California in 1822. This period saw extensive interior land grant development as well as exploration west of the Sierra Nevada Mountains by American fur trappers. The California missions declined in power and were ultimately secularized in 1834. The hallmark of the Mexican period was large ranchos deeded to prominent Mexican citizens, frequently soldiers, by the governor. These ranchos became important economic and social centers. However, no ranchos were claimed in the arid Mojave Desert. Rancho La Liebre, situated on the southern border of Kern County and northern border of Los Angeles County, was the closest land grant to the current APE, located approximately 80 kilometers (50 miles) to the west. Governor Pío Pico and his predecessors made more than 600 rancho grants between 1833 and 1846, putting most of the state's lands into private ownership for the first time (Gumprecht 1999). During the Mexican period, trappers and explorers from the eastern United States repeatedly journeyed westward. Jedidiah Strong Smith, one of these early American adventurers, traveled through the Mojave Desert in 1826 and 1827 and nicknamed the Mojave River the "Inconstant River" because of its frequent disappearance beneath the ground surface.

American Period (1848 – Present)

The American Period officially began with the signing of the Treaty of Guadalupe Hidalgo in 1848, in which the United States agreed to pay Mexico $15 million for the conquered territory, including California, Nevada, Utah, and parts of Colorado, Arizona, New Mexico, and Wyoming. In 1850, California was admitted to the Union as the 31st state.

The discovery of gold in northern California in 1848 led to the California Gold Rush and subsequent farming and city/town development in the northern/central portions of California. Southern

California remained dominated by cattle ranches in the early American Period, though droughts and increasing population resulted in ranching being increasingly supplanted by farming and more urban professions through the late nineteenth century. By 1853, the population of California exceeded 300,000. Thousands of settlers and immigrants continued to immigrate into the state, particularly after the completion of the transcontinental railroad in 1869.

During the Gold Rush, thousands of people traveled the Mojave River Trail from points east, attempting to reach the fabled goldfields of California. Captain John C. Frémont called the Mojave River Trail the Old Spanish Trail until he met a group of Native Americans northeast of Victorville who told Frémont they had lived along the Mojave River and the mountains to the north and traded with other indigenous peoples in the region along the Mojave River Trail (Frémont 1845:260).

Boron

Boron is a census-designated place in the County of Kern, California, and is most famous for its extensive colemanite (a borax ore) deposits used in the production of boron and boric acid. In 1925, one of the largest deposits of borax was discovered and led to the establishment of the world's largest boron mine (Shumway et al. 1980). This mine is still in existence today and employs nearly 800 people in Boron, supplying nearly half the world's boron.

Edwards Air Force Base

Edwards Air Force Base is situated within the northwestern portion of the Mojave Desert. The area was primarily inhabited by miners until 1876 when the Southern Pacific Railroad built a rail line from Barstow to Mojave, California. In 1910, the Corum family settled in the area, farming alfalfa and raising turkeys. In addition, the Corum's opened a post office and general store, and obtained water well drilling and land clearing contracts, later requesting to name the town Muroc. Over the next 20 years, isolated homesteads started to line the area and eventually, in 1933, Lt. Col. H. H. Arnold transformed the desert wasteland into a gunnery range. Building on Lt. Col. Arnold's idea and the events of World War II, The Muroc Army Air Base was established by 1942 (Edwards' History 2009).

The Muroc Army Air Base was used as a training center and later housing pilot testing for the first fighter jet planes in America. The Muroc Army Air Base then became a proving ground for Navy and Air Force jets produced as a result of the Cold War arms race with the Soviet Union. Several famous pilts began filtering through the Muroc Army Air Base including Chuck Yaeger who would break the sound barrier in 1947. The base was renamed Edwards Air Force Base in 1949 following the death of Capt. Glen Edwards who died during a test flight at the base. As the research grew, the U. S. Air Force moved the test pilot school to Edwards and designated the base as the U. S. Air Force Flight Test Center, growing into a 300,000-acre base. Over the course of the 1950's testing continued on the base, new Mach levels were reached, and the century series fighter jets were born (Edwards' History 2009).

By the 1960s the space race was in full swing and the testing school temporarily transitioned the goal from pilot testing to aerospace research and astronaut training. Additionally, during this time the first stealth aircraft was developed. By the 1970's the test school transitioned their efforts back to pilot training and integrated aerospace advancements. These advancements brought the development of new aircrafts. Making further strides, in 1981, the Columbia Space Shuttle landed at Edwards Air Force Base after maintaining a two day orbit. Not only did the 1980's bring the landing of the Columbia Space Shuttle, it also brought the development of the B-2 Spirit Bomber and the F-117. By the turn of the decade aircraft research, development, testing, and evaluation continued to

grow and new aircraft series took to the skies. This progress continued into the new millennia and continues to today (Edwards' History 2009).

3 Background Research

3.1 EAFB Cultural Resources Records

8minute Solar Energy provided Rincon with locational data and resource numbers for all cultural resources on file with EAFB within the APE. Based on this information, Rincon requested copies of site records for all cultural resources within the APE from the EAFB Environmental Management Office. Rincon received EAFB records on June 29, 2020. All resources recorded within the APE by EAFB are listed in Table 2 and discussed further below.

Table 2 EAFB Previously Recorded Resources within the APE

Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	NRHP Status
EAFB 0802	CA-SBR-7431H	Historic Road	Remnants of historic wagon road	1993 (M. Macko, Macko Archaeological Consulting); 2004 (K. Davis, JT3/CH2M HILL); 2005 (J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo, Tetra Tech, Inc.)	Not eligible
EAFB 1330		Historic Site	Refuse deposit	1993 (K.E. Buescher); 2001 (S. Ashkar, C. Fish, Jones & Stokes Associates, Inc.); 2005 (J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo, Tetra Tech, Inc.)	Not evaluated
EAFB 2721/ P-15-006596	CA-KER-0053330H	Historic Site	Refuse deposit	1998 (G. Greene, M. Ronning, Computer Sciences Corporation); 2005 (J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo, Tetra Tech, Inc.)	Not evaluated
EAFB 2724/ P-15-007160	CA-KER-005510H	Historic Site	Refuse deposit	1998 (G. Greene, M. Ronning, Computer Sciences Corporation); 2004 (K. Davis, JT3/CH2M HILL); 2005 (J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo, Tetra Tech, Inc.)	Not evaluated
EAFB 2734/ P-36-009483	CA-SRB-9483H	Historic Site	Refuse deposit	1997 (S. Uchitel, H. Switalski, S. Gilardi); 2002 (H. Puckett, J. Keasling, K. Guardardo, Earth Tech);	Found ineligible for NRHP through survey evaluation

Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	NRHP Status
EAFB 2735/ P-36-009484	CA-SBR-9484H	Historic Site	Refuse deposit	1997 (M. Walsh, B. Gothar, H. Switalsk, Ancient Enterprises, Inc.); 2005 (J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo, Tetra Tech, Inc.)	Not evaluated
EAFB 3219	CA-SBR-10727H	Historic Site	Refuse deposit	2000 (A. Gueyger, G.Alcock, C. Havelaar, Jones & Stokes); 2005 (J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo, Tetra Tech, Inc.)	Not evaluated
EAFB 3737	CA-SBR-12450H	Historic Site	Refuse deposit	2005 (J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo, Tetra Tech, Inc.)	Not eligible
EAFB 3738	CA-SBR-12451H	Historic Site	Refuse deposit	2005 (J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo, Tetra Tech, Inc.)	Not evaluated
EAFB 3817		Historic Road	Expedition Route 1868	2004 (Tetra Tech, Inc.)	Not evaluated
EAFB 3852		Historic Road	Unnamed dirt road	2004 (Tetra Tech, Inc.)	Not evaluated
EAFB 3853		Historic Road	Pacific Coast Borax Road	2004 (Tetra Tech, Inc.)	Not evaluated
EAFB 3854		Historic Road	Rich-Kramer Road	2004 (Tetra Tech, Inc.)	Not evaluated
EAFB 3893		Historic Road	Unnamed dirt road	2004 (Tetra Tech, Inc.)	Not evaluated

EAFB 0802

M. Macko originally recorded resource EAFB 0802 as a remnant of an old two-track wagon road in 1993. Macko reported that the road extended from Randsburg to Kramer Hill and Red Buttes, as well as other points further south. In 2004, K. Davis conducted a site update and noted modern use of the road. As part of an Archaeological Evaluation, J. Fogerty Jet al. updated the site in 2005, and noted that the findings were consistent with the original record and update. EAFB 0802 was evaluated for eligibility for listing on the NRHP and it was recommended ineligible for listing.

EAFB 1330

First recorded by K. E. Buescher in 1993, resource EAFB 1330 is recorded as a scatter of sanitary cans and matchstick filler cans. In 2001, S. Ashkar and C. Fish conducted a survey of 1000 square meters around the site boundary and were unable to relocate the resource. Later, in 2005, J. Fogerty et al. were also unable to relocate the refuse deposit. The site was not evaluated for listing on the NRHP.

EAFB 2721

G. Greene and M. Ronning originally recorded resource EAFB 2721 in 1998 as a historic-period civilian refuse deposit of various glass, cans, earthenware, concrete, and milled lumber. J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, and M. Zizzo updated the record for resource EAFB 2721 in 2005 as a historic period refuse deposit in similar condition as the original record, noting seven discrete concentrations with ephemeral scatter. The resource was not evaluated for NRHP listing when it was recorded in 1998 nor in the 2005 update.

EAFB 2724

Resource EAFB 2724 was initially recorded in 1998 by G. Green and M. Ronning as a refuse deposit consisting of sanitary cans, matchstick filler fans, and clear glass jar fragments. Green and Ronning determined that the site dates to post 1935 based on the can types observed. K. Davis conducted a site update in 2004 and found the site to be in the same condition as the original record. Additionally, J. Fogerty et al. conducted a site update in 2005 and determined the site to be consistent with the 1998 record. The site has not been evaluated for eligibility in the NRHP.

EAFB 2734

S. Uchitel, H. Switalski, and S. Gilardi recorded resource EAFB 2734 as a historic-aged refuse deposit consisting of glass fragments, sanitary cans, tobacco tins, beer cans, white ware ceramics, and medicine bottles in 1997. In 2002, H. Puckett, Keasling, and K. Guardardo updated the site and identified four separate concentrations consisting of the materials described in the 1998 original record. During their efforts, Puckett, Keasing, and Guardardo found EAFB 2734 to be ineligible for listing on the NRHP. Later in 2004, K. Davis noted site disturbances due to wind erosion and vehicle activity but determined the site record to be accurate. J. Fogerty et al. provided an update in 2005 stating that the 2002 field form by Puckett, Keasling and Guardardo was accurate and the site conditions were consistent with the previous findings, recommending that the site remain ineligible for listing in the NRHP.

EAFB 2735

Originally recorded in 1997 by M. Walsh, B. Gothar, and H. Switalski, resource EAFB 2735 consists of hole-in-top cans, sanitary cans, motor oil cans, wire, various glass condiment jars, tobacco tins, white porcelain fragments, and a California License plate. Walsh, Gothar, and Switalski dated the site to the 1920s based on the cultural constituents. J. Fogerty et al. revisited the site in 2005, identifying more refuse approximately 50 meters from the original site boundaries, finding 200 cans, 40 glass fragments, and various kitchen items. Additionally, Fogerty et al. noted disturbance to site due to the transmission line access road. The site was not evaluated for eligibility for listing on the NRHP during the original in 1997 nor the 2005 update by Fogerty et al.

EAFB 3219

In 2000, A. Gueyger, G. Alock, and C. Havelaar recorded resource EAFB 3219 as a historic-aged refuse deposit consisting of glass fragments, pipe, ceramics, corrugated sheet metal, cans, lumber, structural debris, and wire fencing. Along with historic-era materials, they noted modern items such as a coffee pot with a plastic rim and a fluorescent lightbulb. Later in 2005, J. Fogerty conducted a site update, finding conditions consistent with the original record. Neither record includes an evaluation of resource EAFB 3219 for eligibility for listing on the NRHP.

EAFB 3737

Resource EAFB 3737 was recorded by J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo in 2005. They recorded EAFB 3737 as a large, historic-aged civilian refuse deposit consisting of over 300 items. According to Fogerty et al., the site consists of glass and ceramic fragments, cans, and domestic debris in a single dump location with a light scatter in all directions, parallel to the east/west orientated transmission line and access road. In addition to the surface survey, Fogerty et al. conducted metal probe penetration tests with minimal findings. Fogerty et al. recommended that EAFB 3737 is ineligible for listing on the NRHP.

EAFB 3738

J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo recorded resource EAFB 3738 in 2005. EAFB 3738 is recorded as a historic-aged refuse deposit consisting of approximately 50 cans, glass fragments, miscellaneous metal, telephone fire, and milled lumber with nails. Fogerty et al. identified that the cans were consistent with historic-aged beer, oil, meat, vegetable, fruit, and coffee cans. Resource EAFB 3738 was not evaluated for listing on the NRHP.

EAFB 3817

Tetra Tech identified resource EAFB 3817 via historic research in 2004. Tetra Tech identified the resource as a historic Expedition Route 1868 along the northern boundary of the EAFB. The route was utilized by the William Jackson Palmer surveying party for the eastern portion of the Union Pacific Railroad in 1868. The record does not indicate that any field survey was conducted to identify potential remains of the route. The resource has not been evaluated for eligibility on the NRHP.

EAFB 3852

During their research in 2004, Tetra Tech identified resource EAFB 3852 as a historic road oriented southwest through EAFB and intersecting with Flowing Well-Helendale Road. The record does not indicate that any field survey was conducted to identify potential remains of the route. The resource has not been evaluated for eligibility on the NRHP.

EAFB 3853

Resource EAFB 3853 was recorded by Tetra Tech in 2004 through historic research. Tetra Tech identified EAFB 3853 as Pacific Coast Borax Road, extending to Boron and then to the Pacific Coast Borax Company and the Gephart School. The record does not indicate that any field survey was conducted to identify potential remains of the route. The resource has not been evaluated for eligibility on the NRHP.

EAFB 3854

Recorded as Rich-Kramer Road, resource EAFB 3854 was identified by Tetra Tech through historic research in 2004. The road extends from Rich Siding and intersects with EAFB 3853. The record does not indicate that any field survey was conducted to identify potential remains of the route. The resource has not been evaluated for eligibility on the NRHP.

EAFB 3893

In 2004, Tetra Tech recorded resource EAFB 3893, a historic aged road, through historical research. Tetra Tech identified the road as extending beyond EAFB in a southward orientation. The record does not indicate that any field survey was conducted to identify potential remains of the route. The resource has not been evaluated for eligibility on the NRHP.

3.2 California Historical Resource Information System

Rincon archaeologist Hannah Haas, M.A., RPA requested a search of cultural resource records housed at the California Historical Resources Information System (CHRIS), Southern San Joaquin Valley Information Center (SSJVIC) at California State University Bakersfield for the Aratina Solar Farm Project on February 14, 2019. On February 21, 2019, SSJVIC staff conducted a search of their records in relation to the project site of the Aratina Solar Farm Project, which included a portion of the section of Gen-Tie within EAFB. The search was conducted to identify all previously recorded cultural resources within a 0.5-mile radius of the APE. The CHRIS search included a review of the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), the California Points of Historical Interest list, the California Historical Landmarks list, the Archaeological Determinations of Eligibility list, and the California State Historic Resources Inventory list.

The SSJVIC records search identified a total of 6 cultural resources within the search radius, one of which is within the APE (P-15-006596), and one of which is adjacent to the north of the APE (P-15-007160) as seen in

Table 3. The resource located in the APE is discussed in further detail below.

Table 3 Previously Recorded Resources within a 0.5-Mile Radius of the APE

Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	NRHP Status	Relationship to APE
P-15-006596/ EAFB 2721	CA-KER-0053330H	Historic Site	Refuse deposit	1998 (G. Greene, M. Ronning, Computer Sciences Corporation); 2005 (J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo, Tetra Tech, Inc.)	Not evaluated	**Within**
P-15-007160/ EAFB 2724	CA-KER-005510	Historic Site	Refuse deposit	1998 (G. Greene, M. Ronning, Computer Sciences Corporation)	Not evaluated	**Within**
P-15-0124444		Historic Other	Metal isolate	2005 (J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo, Tetra Tech EC, Inc.)	Not evaluated	Outside
P-15-012762		Historic Other	Metal isolate	2005 (J. Fogerty, J. Farrell, B. Ludwig, S. Batchelor, C. Speckman, M. Mavety, D. Brietkreutz, M. Zizzo, Tetra Tech EC, Inc.)	Not evaluated	Outside

Primary Number	Trinomial	Resource Type	Description	Recorder(s) and Year(s)	NRHP Status	Relationship to APE
P-15-013475	CA-KER-007580H	Historic Site	Refuse deposit	2005 (B. Boyer, M. Basham, J. Johannesmeyer, E. Maier, L. McGetick, JT3/CH2M Hill)	Not evaluated	Outside
P-15-017321		Historic Structure	Road section	2013 (D. Martinez, D. Mike, Far Western)	Not evaluated	Outside

Source: SSJVIC 2019

P-15-006596

See above description for EAFB 2721.

P-15-007160

See description above for EAFB 2724.

4 Fieldwork

4.1 Pedestrian Survey Methods

Rincon archaeologists Dustin Merrick, B.A. and Courtney Montgomery B.A. conducted the pedestrian survey of the APE between May 27, 2020 and May 29, 2020. Mr. Merrick and Ms. Montgomery walked a series of pedestrian transects oriented generally east-west and spaced no more than 15 meters apart across the entirety of the APE. The archaeologists examined all exposed ground surfaces for artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock [FAR]), ecofacts (marine shell and bone), soil discoloration that might indicate the presence of a cultural midden, soil depressions, and features indicative of the former presence of structures or buildings (e.g., standing exterior walls, postholes, foundations) or historic debris (e.g., metal, glass, ceramics). Ground disturbances such as burrows and drainages were visually inspected. Survey notes were prepared by the surveyor and are available upon request.

4.2 Results

The APE is located on a flat, sandy, alluvial plain with low to moderate density vegetation consisting primarily of creosote, saltbush, and scattered patches of low ground cover. Ground visibility within the APE was 70-90% with soil consisting of a light brown, poorly sorted medium to fine grained sand.

During the field effort, Rincon identified and recorded one previously unrecorded site (ARA-S-003) and updated 14 previously recorded sites (EAFB 0802, EAFB 1330, EAFB 2721/P-15-006596, EAFB 2724/P-15-007160, EAFB 2734, EAFB 2735, EAFB 3219, EAFB 3737, EAFB 3738, EAFB 3817, EAFB 3852, EAFB 3853, EAFB 3854, EAFB 3893). Each of these resources is discussed in further detail below.

ARA-S-003

ARA-S-003 is a historic refuse scatter dating to the mid-20th century. The deposit consists of milled lumber, glass fragments, ceramic fragments, metal cans and other metal such as car parts, a tobacco tin, nails, rings, and a jean button. None of the identified artifacts had distinctive maker's marks or date stamps. Based on the types of cans and bottles present, the site appears to date to the early to mid-twentieth century.

EAFB 0802

In 1993, M. Macko recorded resource EAFB 0802/CA-SBR-7431H is recorded as a remnant of an old two-track wagon road (Figure 2) extending from Randsberg south to Kramer Hill and Red Buttes. The wagon road appears on numerous mining and automotive maps starting in the 1890s through the 1940s. Rincon relocated the resource during the current survey and observed a 10-foot, 5-inch-wide unpaved, unmaintained road with 1.5-foot banks on either side. No other cultural materials were observed in relation to the road within the current APE.

Figure 2 *Confidential information removed from public review*

EAFB 1330

Resource EAFB 1330 is recorded as a historic period refuse deposit consisting of sanitary and matchstick filler cans. During the current survey, the resource was not relocated, and no other cultural materials or features were observed within or near the site boundaries. Rincon surveyed a 20 meter area around the project boundaries and within the project boundaries, finding no cultural resources. These findings are consistent with previous surveys reported in the site record by Davis (2004) and Fogerty (2005).

EAFB 2721/P-15-006596

Resource EAFB 2721/P-15-006596 was relocated during the current survey. Rincon's observations are consistent with the most recent site update prepared in 2005. Materials within the site consist of metal cans, glass and earthenware fragments, and milled lumber (Figure 3). The site extends to the north, outside of the current APE.

Figure 3 *Confidential information removed from public review*

EAFB 2724/P-15-007160

Resource EAFB 2724 was originally recorded as a cluster of church key opened beer cans. During the current survey, a solitary crushed rectangular can was observed within the site boundary (Figure 4).

Figure 4 Solitary Can Found within Resource EAFB 2724/P-15-007160 Boundaries

EAFB 2734

Resource EAFB 2734 was recorded as a historic period refuse deposit consisting of domestic expendable and non-expendable items dating from 1914 to 1945 such as cans, ceramics, and glass. Rincon relocated the resource in a state consistent with the site record; however, the site currently appears smaller than the original data suggest (Figure 5). The observed site consisted of a plank of milled lumber, church key opened beer cans, crushed cans, and glass fragments that were green, brown, clear, and cobalt.

Figure 5 *Confidential information removed from public review*

EAFB 2735

Resource EAFB 2735 was previously recorded as a historic period refuse deposit (Figure 6). Rincon relocated the resource in a state consistent with the site record. The portion of the site that falls within the current APE consists of a light scatter of cans, glass and ceramic fragments, milled lumber, and other construction and maintenance items.

Figure 6 *Confidential information removed from public review*

EAFB 3219

Resource EAFB 3219 is a historic-aged refuse scatter consisting of construction and domestic expendable items such as tin cans, glass fragments, ceramics, corrugated sheet metal, lumber, and wire fencing. Rincon relocated the resource in a state consistent with the site record (Figure 7). During the current survey, the observed site consisted of a centralized dump pit containing various metal cans, construction materials, glass and ceramic fragments with an ephemeral scatter around the main concentration.

Figure 7 *Confidential information removed from public review*

EAFB 3737

Resource EAFB 3737 is recorded as a historic-aged refuse scatter. Rincon relocated the resource in a state consistent with the site record, documenting cans, ceramic and glass fragments, as well as domestic debris. The observed site consisted of cans of varying sizes (Figure 8), automotive materials, metal electric conduit and wire, clear and green bottle glass, and white ware ceramics.

Figure 8 View of EAFB 3737, Overview Of Cans

EAFB 3738

Resource EAFB 3738 is a historic refuse scatter. Rincon relocated the resource in a state consistent with tin cans, glass fragments, milled lumber, and various glass jars as described in the site record; however, the site currently appears smaller than the original data suggest. The observed site consisted of milled lumber, metal cans, and other metal objects (Figure 9).

Figure 9 *Confidential information removed from public review*

EAFB 3817

Resource EAFB 3817 was recorded as a historic road. During the current survey, Rincon was unable to locate any evidence of the resource indicated by the historic maps reviewed by Tetra Tech, Inc. in 2004. No other cultural materials or features were observed within or near the previously recorded site boundary. Rincon surveyed the project boundaries, as well as 20 meters around the project boundaries within the current survey corridor, finding no cultural resources.

EAFB 3852

Resource EAFB 3852 is recorded as a historic road. Rincon relocated the resource initially recorded by Tetra Tech Inc. in 2004 solely through historical map research and no field survey. The observed

resource is a two-track unmaintained, unimproved dirt road measuring 9 feet, 3 inches wide (Figure 10). The road is in poor condition to due bioturbation, wind erosion, and lack of use.

Figure 10 *Confidential information removed from public review*

EAFB 3853

Resource EAFB 3853 was recorded as a historic road. During the current survey, Rincon was unable to locate any evidence of the resource indicated by the historic maps reviewed by Tetra Tech, Inc. in 2004. No other cultural materials or features were observed within or near the previously recorded site boundary. Rincon surveyed the site boundaries, as well as 20 meters around the site boundaries within the current survey corridor, finding no cultural resources.

EAFB 3854

Resource EAFB 3854 was recorded as a historic road. During the current survey, Rincon was unable to locate any evidence of the resource indicated by the historic maps reviewed by Tetra Tech, Inc. in 2004. No other cultural materials or features were observed within or near the previously recorded site boundary. Rincon surveyed the site boundaries, as well as 20 meters around the site boundaries within the current survey corridor, finding no cultural resources.

EAFB 3893

Resource EAFB 3893 was recorded as a historic road. During the current survey, Rincon was unable to locate any evidence of the resource indicated by the historic maps reviewed by Tetra Tech, Inc. in 2004. No other cultural materials or features were observed within or near the previously recorded site boundary. Rincon surveyed the site boundaries, as well as 20 meters around the site boundaries within the current survey corridor, finding no cultural resources.

5 Significance Evaluations

Resources recorded and/or updated as part of the current study were evaluated for NRHP eligibility.

As detailed in the Regulatory Setting (Section 1.4), a resource is considered a historic property under 36 CFR 800 if the quality of significance in American history, architecture, archaeology, engineering, or culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and that:

A. Are associated with events that have made a significant contribution to the broad patterns of our history; or
B. Are associated with the lives of persons significant in our past; or
C. Embody the distinctive characteristics of a type, period, or method of installation, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
D. Have yielded, or may be likely to yield, information important in prehistory or history

Although many sites may provide pertinent information to the research questions listed above, a site must also maintain integrity of location, design, setting, materials, workmanship, feeling, and association. Integrity is a property's ability to "convey its significance." Should a resource meet any of the NRHP criteria, but that resource lacks sufficient integrity, the resource may not qualify for listing. The integrity of each resource is considered during NRHP evaluations.

5.1 ARA-S-003

ARA-S-003 is a historic-period refuse deposit consisting of various metal objects, glass fragments, ceramic pieces, milled lumber, and concrete chunks. As a nondescript refuse scatter, the site cannot be linked to any significant events or movements in history (Criteria A). Refuse scatters often lack the provenience and diagnostic materials required to associate it with a notable person in history (Criteria B). According to Bureau of Land Management (BLM) General Land Office (GLO) records, the area was homesteaded by Henderson Litterell in 1920. Rincon was unable to find information on Litterell that would suggest he is a notable person in history. Historic refuse scatter sites like this do not display unique craftsmanship because the constituents are commonly machine made, mass produced, and do not reflect individual style or embody characteristics of a type, period, or method of construction (Criteria C). Sites like this are ubiquitous throughout the region, therefore ARA-S-003 cannot add any new information to our knowledge of the area's history. Additionally, the site consists of a surface scatter with no apparent subsurface deposit and all data was exhausted by the current survey (Criteria D). Thus, the resource is not considered eligible for listing in the NRHP under all four criteria (A-D).

5.2 EAFB 0802

Resource EAFB 0802 consists of remnants of a historic-period two-track wagon road extending from Randsburg south to Kramer Hills and Red Buttes. The road is depicted on *Kramer Quadrangle* topographic maps from 1937 to 2012. Rincon concurs with the previous recommendation that EAFB 0802 is not eligible for listing on the NRHP under all four criteria (A-D).

5.3 EAFB1330

Resource EAFB 1330 is recorded as a historic-period refuse deposit consisting of sanitary and matchstick filler cans. As the resource was not relocated during the current survey or previous surveys reported in the site record, the resource cannot be evaluated for the NRHP and is presumed destroyed due to military activities or construction associated with the existing utility corridor.

5.4 EAFB 2721

Resource EAFB 2721 is a historic-period refuse deposit consisting of household refuse including cans, glass, wood, and ceramics. As a nondescript refuse scatter, the site cannot be linked to any significant events or movements in history (Criteria A). Refuse scatters often lack the provenience and diagnostic materials required to associate it with a notable person in history (Criteria B). Historic refuse scatter sites like this do not display unique craftsmanship because the constituents are commonly machine made, mass produced, and do not reflect individual style or embody characteristics of a type, period, or method of construction (Criteria C). Sites like this are ubiquitous throughout the region, therefore EAFB 2721 cannot add any new information to our knowledge of the area's history. Additionally, the site consists of a surface scatter with no apparent subsurface deposit and all data was exhausted by the current survey (Criteria D). Thus, the resource is not considered eligible for listing in the NRHP under all four criteria (A-D).

5.5 EAFB 2724

Resource EAFB 2724 is recorded as a historic-period refuse deposit by Greene and Ronning in 1998 and updated by Davis in 2004 and Fogerty et al. in 2005. Fogerty et al. found the resource to be consistent with the original record; however, the current survey efforts were unable to relocate the resource within the current survey boundaries. As the resource was not relocated during the current survey, the resource cannot be evaluated for the NRHP and was likely destroyed due to military activities or the construction associated with the existing utility corridor.

5.6 EAFB 2734

Resource EAFB 2734 is a historic period refuse deposit consisting of cans, glass, and milled lumber with no diagnostic markers. Rincon observed features consistent with the original findings, of glass, milled lumber, and cans. Rincon concurs with the previous recommendation that EAFB 0802 is not eligible for listing on the NRHP under all four criteria (A-D).

5.7 EAFB 2735

Resource EAFB 2735 is a historic-period refuse deposit containing construction material, domestic expendable items, domestic non-expendable items, transportation items, and personal items, such as tin cans, glass and ceramic fragments, and miscellaneous metals. As a nondescript refuse scatter, the site cannot be linked to any significant events or movements in history (Criteria A). Refuse scatters often lack the provenience and diagnostic materials required to associate it with a notable person in history and BLM GLO records do not indicate any homesteads that encompassed this area (Criteria B). Historic refuse scatter sites like this do not display unique craftsmanship because the

constituents are commonly machine made, mass produced, and do not reflect individual style or embody characteristics of a type, period, or method of construction (Criteria C). Sites like this are ubiquitous throughout the region, therefore EAFB 2735 cannot add any new information to our knowledge of the area's history. Additionally, the site consists of a surface scatter with no apparent subsurface deposit and all data was exhausted by the current survey (Criteria D). Thus, Rincon recommends site EAFB 2735 as ineligible for listing in the NRHP under all four criteria (A-D).

5.8 EAFB 3219

Resource EAFB 3219 is a historic-period refuse scatter consisting of construction materials and expendable domestic items, such as tin cans, glass fragments, ceramics, corrugated sheet metal, lumber, and wire fencing. As a nondescript refuse scatter, the site cannot be linked to any significant events or movements in history (Criteria A). Refuse scatters often lack the provenience and diagnostic materials required to associate it with a notable person in history and BLM GLO records do not indicate any homesteads that encompassed this area (Criteria B). Historic refuse scatter sites like this do not display unique craftsmanship because the constituents are commonly machine made, mass produced, and do not reflect individual style or embody characteristics of a type, period, or method of construction (Criteria C). Sites like this are ubiquitous throughout the region, therefore EAFB 3219 cannot add any new information to our knowledge of the area's history. Additionally, the site consists of a surface scatter with no apparent subsurface deposit and all data was exhausted by the current survey (Criteria D). Thus, the resource is not considered eligible for listing in the NRHP under all four criteria (A-D).

5.9 EAFB 3737

Resource EAFB 3737 consists of a historic-period refuse scatter consisting of automotive and expendable domestic materials. As a nondescript refuse scatter, the site cannot be linked to any significant events or movements in history (Criteria A). Refuse scatters often lack the provenience and diagnostic materials required to associate it with a notable person in history and BLM GLO records do not indicate any homesteads that encompassed this area (Criteria B). Historic refuse scatter sites like this do not display unique craftsmanship because the constituents are commonly machine made, mass produced, and do not reflect individual style or embody characteristics of a type, period, or method of construction (Criteria C). Sites like this are ubiquitous throughout the region, therefore EAFB 3737 cannot add any new information to our knowledge of the area's history. Additionally, the site consists of a surface scatter with no apparent subsurface deposit and all data was exhausted by the current survey (Criteria D). Thus, the resource is not considered eligible for listing in the NRHP under all four criteria (A-D).

5.10 EAFB 3738

Resource EAFB 3738 is a historic-period refuse scatter. As a nondescript refuse scatter, the site cannot be linked to any significant events or movements in history (Criteria A). Refuse scatters often lack the provenience and diagnostic materials required to associate it with a notable person in history (Criteria B). Historic refuse scatter sites like this do not display unique craftsmanship because the constituents are commonly machine made, mass produced, and do not reflect individual style or embody characteristics of a type, period, or method of construction (Criteria C). Sites like this are ubiquitous throughout the region, therefore EAFB 3738 cannot add any new information to our

knowledge of the area's history. Additionally, the site consists of a surface scatter with no apparent subsurface deposit and all data was exhausted by the current survey (Criteria D). Thus, the resource is not considered eligible for listing in the NRHP under all four criteria (A-D).

5.11 EAFB 3817

Resource EAFB 3817 was recorded as a historic-period road, recorded solely through historical map research without any field survey to determine the physical presence of the resource. No cultural materials or features were observed within or near the previously recorded resource boundaries. As the resource was not relocated during the current survey, the resource cannot be evaluated for the NRHP and is presumed destroyed due to military activities or the construction associated with the existing utility corridor.

5.12 EAFB 3852

Resource EAFB 3852 is a historic-period road. The road was recorded on the *Kramer* Quadrangle topographic maps from 1937 to 1956 and then again on the 1966 *San Bernardino* Quadrangle topographic map (USGS 2020). Starting on the 1973 *Kramer* Quadrangle topographic map, the road was not recorded; however, there is a water body recorded following the general orientation of the road on the 1982 *Victorville* Quadrangle topographic map. The water body and the road are not recorded after the 1982 *Victorville* Quadrangle topographic map recording. As an unnamed dirt road, the resource cannot be identified to be associated with events that have made a significant contribution to broad patterns of history (Criteria A) and or with the lives of significant persons in the past (Criteria B). The road is an unimproved, unmaintained dirt road, which are ubiquitous throughout the area and thus does not reflect individual style or embody characteristics of a type, period, or method of construction (Criteria C). As a nondescript, unnamed dirt road with no associated artifacts or features, the resource is not likely to yield any important information to the history of the area as no other cultural materials remained (Criteria D). Thus, the resource is not considered eligible for listing in the NRHP under all four criteria (A-D).

5.13 EAFB 3853

The current survey efforts were unable to relocate resource EAFB 3853. EAFB 3853 was recorded solely through historical map research without any field survey to determine the physical presence of the resource. No cultural materials were observed within or near the previously recorded resource boundaries. As the resource was not relocated during the current survey, the resource cannot be evaluated for the NRHP and is presumed destroyed due to military activities or the construction associated with the existing utility corridor.

5.14 EAFB 3854

Resource EAFB 3854 was recorded as a historic-period road, recorded solely through historical map research without any field survey to determine the physical presence of the resource. No cultural materials were observed within or near the previously recorded resource boundaries. As the resource was not relocated during the current survey, the resource cannot be evaluated for the NRHP and is presumed destroyed due to military activities or the construction associated with the existing utility corridor.

5.15 EAFB 3893

Resource EAFB 3893 was recorded as a historic-period road, recorded solely through historical map research without any field survey to determine the physical presence of the resource. No cultural materials were observed within or near the previously recorded resource boundaries. As the resource was not relocated during the current survey, the resource cannot be evaluated for the NRHP and is presumed destroyed due to military activities or the construction associated with the existing utility corridor.

6 Management Recommendations

The cultural resource records search and survey identified 14 previously recorded cultural resources within the project APE (EAFB 0802, EAFB 1330, EAFB 2721/P-15-006596, EAFB 2724/P-15-007160, EAFB 2734, EAFB 2735, EAFB 3219, EAFB 3737, EAFB 3738, EAFB 3817, EAFB 3852, EAFB 3853, EAFB 3854, and EAFB 3893) and one newly recorded resource (ARA-S-003). Of the previously recorded resources, eight were relocated during the current survey effort (EAFB 0802, EAFB 2721, EAFB 2734, EAFB 2735, EAFB 3219, EAFB 3737, EAFB 3738, and EAFB 3852). The remaining six previously recorded resources were not relocated during the survey (EAFB 1330, EAFB 2724, EAFB 3817, EAFB 3853, EAFB 3854, and EAFB 3893).

Each of the previously recorded resources relocated by Rincon (EAFB 0802, EAFB 2721, EAFB 2734, EAFB 2735, EAFB 3219, EAFB 3737, EAFB 3738, and EAFB 3852) and ARA-S-003 have been recommended as ineligible for listing in the NRHP and therefore do not qualify as historic properties under Section 106 of the NHPA.

Rincon is not able to provide a recommendation of eligibility for the six sites that were not relocated (EAFB 1330, EAFB 2724/P-15-007160, EAFB 3781, EAFB 3853, EAFB 3854, and EAFB 3893). However, each site is presumed to have been destroyed by military activities and/or construction of the exiting utility corridor. As the resources are no longer extant, they require no further management consideration under Section 106 of the NHPA.

Based on the current study, Rincon recommends a finding of ***no effect to historic properties*** under Section 106 of NHPA. The archaeological sensitivity of the APE has been identified as low based on the project description; however, there is always a possibility of encountering unanticipated archaeological resources during ground disturbing activities. Standard conditions for the treatment of unanticipated discoveries are recommended. Archaeological and Native American monitoring may further reduce the likelihood of disturbing unknown cultural resources.

6.1 Unanticipated Discovery of Cultural Resources

If any prehistoric or historic artifacts, or other indications of archaeological resources such as unusual deposits of stone, bone or shell, stone artifacts, or historic trash deposits or foundations are discovered once ground-disturbing activities are underway, work in the immediate area should halt until the find can be evaluated by a qualified archaeologist. If the find is determined to qualify as a historic property, efforts to avoid or mitigate any potential adverse effects should be developed by the qualified archaeologist in consultation with EAFB environmental staff. The appropriate treatment (e.g., avoidance, data recovery) should be determined on a case-by-case basis depending on the nature of the find.

6.2 Unanticipated Discovery of Human Remains

The discovery of human remains is always a possibility during ground disturbing activities. If human remains are found the base archaeologist or designated representative shall be notified immediately. The base archaeologist, or designated representative, shall notify the County Coroner to determine the nature of the remains (e.g., modern vs. prehistoric). Should the remains be

determined to be prehistoric in nature, EAFB shall comply with all appropriate federal laws and regulations (e.g., Native American Graves Protection and Repatriation Act).

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Appendix A

Confidential information removed from public review - Records Search Results

Appendix B

Confidential information removed from public review - DPR 523 Series Forms

Appendix E. Phase I Environmental Site Assessment

Phase I Environmental Site Assessment - Aratina Solar Gen-Tie Easement

July 20, 2020

Prepared for:

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Prepared by:

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Project No.: 185804366

Sign-off Sheet and Signatures of Environmental Professionals

This document entitled Phase I Environmental Site Assessment - Aratina Solar Gen-Tie Easement 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 for a proposed gen-tie line easement through Edward Air Force Base (EAFB) from approximately 375 feet east of the Boron Road Gate and extending easterly to the Kramer Substation (the "Property"), on behalf of 64NB 8me, LLC (the "Client"). The work was performed according to Stantec's proposal and terms and conditions dated May 6, 2020 and accepted by the Client on May 8, 2020. 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) on approximately 2,667 acres to the north of the Property. Power generated by Aratina will be delivered from the Property to the Southern California Edison (SCE) Kramer Substation by way of a 6.5-mile-long proposed gen-tie line that passes through land owned by EAFB (Figure 1). The proposed gen-tie line easement is the subject of this Phase I ESA.

The Property spans a corridor through ten parcels of land located in San Bernardino and Kern Counties in California (Figure 1). All ten of the parcels are owned by the United States Government and operated by EAFB as part of their Precision Impact Range Area (PIRA). The PIRA contains targets, gunnery ranges, and drop zones for pilots and engineers to test aircraft and weapon systems using primarily infrared laser imaging. The parcels that the proposed gen-tie passes through are contiguous and include the following: 24401012, 049226203, 049226204, 049222114, 049222113, 049222109, 049222108, 049222107, 049222106, and 049220101. Also located within the PIRA is an existing SCE overhead transmission line that crosses over and runs adjacent to the north of Property (i.e. the proposed gen-tie line).

Surrounding properties consist of vacant desert land to the north and south, a water agency building to the west, and a Caltrans maintenance yard and SCE Kramer Substation to the east/northeast. 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 7. 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 the proposed gen-tie easement through EAFB land to the south of the communities of Boron and Kramer Junction, in Kern and San Bernardino Counties, 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:

- **Precision Impact Bombing Area (PIRA) and Target Site PB-9 Overshoot Area.** The Property is owned by the United States Government and operated by EAFB as part of their PIRA. The PIRA contains targets, gunnery ranges, and drop zones for pilots and engineers to test aircraft and weapon systems using primarily infrared laser imaging. However, in the past live fire training activities took place within the PIRA. Based on historical reports indicate that a former Precision Bombing target 9 (PB-9) was located partially outside of EAFB property resulting in an off-base overshoot area designated at AL505-2. The AL505-2 overshoot area is not located on the Property. However, the west end of the Property would presumable fall within a portion of the base that would be part of an overshoot area related to the same PB-9 target.

  Given that the Property is located within the boundaries of EAFB, an active military installation. Moreover, the Property passes through the EAFB PIRA and is near a known munitions response site (AL505-2) resulted in the potential for unexploded ordnance (UXO) or munitions debris to be present at the Property. The potential presence for UXO and/or munitions debris is considered a REC and Stantec recommends that any construction planning and eventual ground disturbance work should proceed under the consultation and guidance of EAFB. Stantec is not recommending any further assessment of UXO and/or munitions debris, at this time apart from what would be required by EAFB.

In addition, Stantec identified the following items of note that should be considered during construction planning:

- **Underground Natural Gas Pipelines.** At least one underground natural gas pipeline runs through the Property (in the northeast. It is understood that this infrastructure will remain in-place during the Property development. Various leak-identification systems are in-place for such pipelines and it is unlikely that any leakage has occurred. 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.

- **Water Wells.** One monitoring well was observed within the western portion of the Property, as illustrated in Figure 3. The specific use of the monitoring well is unknown but is likely a part of the EAFB Operable Unit 3, Basewide Monitoring Wells. Stantec recommends that this well be preserved during construction activities and not disturbed unless permission is provided by EAFB that the well can be destroyed/abandoned. Any destruction/abandonment would also require the appropriate permitting from Kern County.

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 May 6, 2020 and accepted by the Client on May 8, 2020. 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 spans a corridor through ten parcels of land located in San Bernardino and Kern Counties in California (Figure 1). All ten of the parcels are owned by the United States Government and operated by Edward Air Force Base (EAFB) as part of their Precision Impact Range Area (PIRA). The PIRA contains targets, gunnery ranges, and drop zones for pilots and engineers to test aircraft and weapon systems using primarily infrared laser imaging. The parcels that the proposed gen-tie passes through are contiguous and include the following: 24401012, 049226203, 049226204, 049222114, 049222113, 049222109, 049222108, 049222107, 049222106, and 049220101. Also located within the PIRA is an existing SCE overhead transmission line that crosses over and runs adjacent to the north of Property (i.e. the proposed gen-tie line).

Surrounding properties consist of vacant desert land to the north and south, a water agency building to the west, and a Caltrans maintenance yard and SCE Kramer Substation to the east/northeast. 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 7. 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

Stantec requested information relevant to performance of this ISA with a written questionnaire submitted to the User of this report. Per ASTM E1527-13, the user is responsible for providing known information relevant to the environmental condition of the Property. A copy of the questionnaire was sent to Alexander Sundquist of 8minute Solar Energy. Mr. Sundquist responded to the User Questionnaire inquiry via email, indicating they did not have any additional knowledge regarding the Property. User Questionnaire correspondence is included as 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 ranges from approximately 2,500 to 2,580 feet above mean seal level (amsl). The Property is generally flat, with the highest elevations occurring in the west-central portion of the Property (USGS, 1974).
Soil/Bedrock Data:	The surface lithology is the area of the Property 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 170 feet below ground surface, or deeper, 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 ranges from approximately 2,500 to 2,580 feet above mean seal level (amsl). The Property is generally flat, with the highest elevations occurring in the west-central portion of the Property (USGS, 1974). Base on topography, surface water on the Property infiltrates the ground surface or flows over land to the north down seasonal waterways. Several low-lying areas are also present at the Property, discernable by the accumulation of rainwater and subsequent fine-grained sediment material, creating small playas.

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 western portion of the Property is located within the Antelope Valley groundwater basin (6-044) and the eastern portion is within the Harper Valley groundwater basin (6-047). The Antelope Valley 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. It 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).

The Harper Valley basin is bounded on the east by the non-water bearing formations of Fremont Peak, Black Mountain, the Gravel Hills, and the Mud Hills; to the west by portions of the Harper, Kramer Hills, and Lockhart faults, and nonwatery-bearing rocks of the Kramer Hills and lower lying hills; to the south by nonwatery bearing rocks of Mount General, Iron Mountain, and the Waterman Hills. The basin is boundaed to the north by the Rand Mountains (CDWR, 2004).

Records Review
July 20, 2020

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 170 feet below ground surface, or deeper, 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 Force Base 5 East Popson Ave Bldg 2650 Edwards AFB, CA 93524	DOD; NPL; SEMS; CORRACTS; RCRA-TSDF; RCRA-LQG; US ENG CONTROLS; US INST CONTROLS; ENVIROSTOR; HIST Cal-Sites; DEED; ROD; RAATS; PRP; ICIS; US AIRS; DOCKET HWC; ICE; PFAS	No
Edwards Air Force Base (EAFB) occupies 301,000 acres south of the SR-58, between SR-14 and SR-395 junction. EAFB has been used by the military for practice bombing and as a gunnery range since the late 1920s when it was then called Muroc Army Airfield. The EDR report maps the entire boundary of the EAFB as a Department of Defense (DOD) site and the majority as a Superfund Site/NPL Site. Through the Department of Defense's Installation Restoration Program (IRP), EAFB has identified over 500 potential hazardous waste sites within the boundaries of the base. These sites are known as IRP sites or Environmental Restoration Program (ERP) sites. EAFB has designated these sites numerically (i.e. Site 1, Site 2, etc) and grouped them into Operable Units (OU) 1 through 11. OUs 1, 2, 5, 6, 8 and 10 are located in the main base and south base areas. OU 3 references base-wide water wells, OUs 4 and 9 are located in the eastern portion of EAFB and OUs 7 and 11 are base-wide miscellaneous sites.		

Listed Facility Name/Address	Database Listing	REC? (YES / NO)
No information is indicated in the EDR report that indicates environmental impacts within the boundaries of the Property. However, a review of additional documentation available through geotracker and from EAFB indicate that the Property passes through ERP Site 438. The ERP Site is discussed further 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)
Off Base Adjacent Area 2 (East & West)	UXO	Adjacent north/northwest	No
This listing is for the historical presence of an aerial munitions target PB-9, located along the northern boundary of Edwards Air Force Base, approximately 1.1 miles west of the Property. While the former target is located over one mile away, an overshoot area for the target, known as AL505-2, has been mapped off of EAFB property to the north, east, and west. The eastern extent of AL505-2 is adjacent to the north of the Property for an approximate one-mile long segment at the west end. The AL505-2 area is not actually mapped on EAFB property so the limits of the PB-9 overshoot area on EAFB are unknown but would logically encompass a similar area on base. Further discussion regarding the on-base component of the overshoot area is provided in Section 4.4.6.			
Caltrans Beechers Maintenance Station 40400 Jct US 395 Boron, California	SWF/LF, CERS	Adjacent to the east/northeast	No
The Caltrans maintenance station is located south of Kramer Junction and adjacent to the north-south segment of the proposed gen-tie line at the east end of the Property. This facility is listed as a “limited volume transfer operation” for solid waste which includes mixed municipal waste and tires. This facility is considered unlikely to represent an environmental concern to the Property and no further investigation is recommended.			

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
Edwards Air Force Base Environmental Restoration Program and Explosives Ordnance Disposal Unit	Stantec attempted to contact Ms. Claudia Basura and Mr. Paul Schiff with regard to Environmental Restoration Program (ERP) sites and/or ordnance issues within the Property boundaries. As of the date of this report, a response has not been received. However, Stantec has been informed that a response from Ms. Basura will be required as part of the Form 813 process. If Mr. Basura's response changes the conclusions of this report, an addendum will be issued discussing the changes.

4.3.2 Fire Department

Agency Name Contact Information	Finding
Kern County Fire Department http://www.kerncountyfire.org/	There are no physical addresses tied to the Property parcel numbers. The Kern County Fire Department records are 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
Kern County and San Bernardino Building Departments	Due to the lack of structures within the environmental footprint, a permit search at the San Bernardino County Building Department was not necessary for this section of the study area.
Regional Water Quality Control Board, Lahonton Region 15095 Amargosa Road, Building 2, Suite 210 Victorville, CA 92394	Stantec reviewed nearby facility listings on the State Water Resources Control online database Geotracker (www.geotracker.waterboards.ca.gov). Details pertaining to these nearby facilities are discussed in Section 4.4.6.

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
1953	1:20,000	The Property is vacant desert land with no structures. Several seasonal drainages tun north-south, perpendicular through the Property. A rectangular area measuring approximately 25 acres appears to have been cleared of the native desert vegetation from just west of the proposed transmission pole 40 until transmission pole 42. The reason for the land clearance is unclear. The town of Boron is located approximately 0.9 miles northwest of the west end of the Property, and Twenty Mule Team Road is observable dissecting the town. Kramer Junction is developed with several small structures at the northeast, southeast, and southwest corners.
1972	1:34,000	The Property appears similar to the previous photograph except that an irregular shaped area of disturbed land is visible between transmission poles 34 to 37. There is the potential that the disturbed land is related to aboveground and belowground utility line installations in the area. The Caltrans maintenance yard has been constructed adjacent to the east of Property.
1984	1:58,000	The Property looks similar to the previous photograph. Several dirt roads and power line easements cross the Property or run parallel to the Property. The SCE Kramer substation has been constructed adjacent to the east.
1994-1995	1 meter GSD	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. The gas station at the southwest corner of Kramer Junction has been constructed.
2005	1 meter GSD	The Property remains largely similar to the previous photograph. The nearby water agency building to the west of the Property at the Boron Rd gate, has been constructed.

Year	Scale	Observations, Property and Adjoining Properties
2009	1 meter GSD	The Property and surrounding properties remains similar to the previous photograph.
2012	1 meter GSD	The Property and surrounding properties remains similar to the previous photograph.
2016	6 meter GSD	The Property and surrounding properties remains similar to the previous photograph.

4.4.3 City Directories

Given that the Property is located in a remote, undeveloped area on EAFB property with no signs of surrounding development and no surrounding property addresses, city directories could not be researched.

4.4.4 Historical Topographic Maps

Stantec reviewed historical identify map USGS 7.5-minute Topographic Maps of the Kramer Junction, Leuhman Ridge, Saddleback Mountain, Boron, Johannesburg SW, and Rich, California Quadrangles to help identify past Property usage and areas of potential environmental concern.

No RECs were identified during review of these maps. 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 entire Property from the town of Boron in the west, to an area labeled as “Beecher” (now Kramer Junction). The towns of Kramer and Amargo are illustrated to the north of the Property. The topography is sloping to the north. Seasonal drainages and dirt road are illustrated as passing through the Property. There are no structural illustrations on or near the Property.
1942	1:24,000	The Property appears similar to the 1937 topographic map. The San Bernardino / Kern County boundary is illustrated.
1947	1:24,000	The Property appears similar to the previous maps. The boundary of EAFB is now illustrated and labeled as “Military Reservation (Approximate)”. Boron and Beecher’s Corner/Kramer Junction appear with multiple structures and roads.
1954, 1956	1:24,00	The Property and surrounding properties appear similar to the previous maps but with additional expansion of development in Boron and Kramer Junction. The substation at Kramer Junction is also illustrated. Pipelines and transmission lines run east to west approximately ½ mile to the north of the Property.
1973	1:24,000	The Property and surrounding properties appear similar to the previous maps except that several dirt roads labeled as “restricted” pass through the Property. The high voltage transmission lines that run adjacent to the majority of the Property are depicted. The

Year	Scale	Observations, Property and Adjoining Properties
		Caltrans maintenance yard is not illustrated to the south of the substation at Kramer Junction. A "tracking station" is also depicted near Kramer Junction to the west of the Property.
2012	1:24,000	The Property and surrounding properties are shown but with very little details. Only major roads and towns are named. No structures are illustrated.

Name of maps and source: EDR, 2020.

4.4.5 Other Historical Sources

Stantec obtained the following historical documents and information through EAFB's administrative documents website (adminrec.com) maintained by Labat Environmental and through online sources such as Geotracker and Envirostor. These documents are listed with a summary of the findings provided below.

Earth Tech, Inc, 2002, Installation Restoration Program, Addendum No.2 to the Site Investigation Summary Report, Sites 437 and 438 – Suspected Burial Locations for Mustard (HD) Cans, Picric Acid, and AN-M120 Fuzes, Operable Unit No. 7, Edwards Air Force Base, California. January.

Department of the Air Force, 2001, No Further Investigation (NFI) Status for Chemical Warfare Material at Site 437 (Mustard Cans, Picric Acid [Kramer Junction]) and Site 438 (Mustard Cans, Picric Acid [Kramer Junction]), Chemical Warfare Material Operable Unit No. 7, Edward Air Force Base, California, August 16.

> ERP Sites 437 and 438 were suspected of being disposal sites for mustard cans, picric acid, and live fuzes based on an archived base map from 1953. ERP Site 437, which is mentioned in the same set of documents, is not located on the Property and is east of SR 395. However, ERP Site 438 is located in the northeast portion of EAFB along the segment of the proposed gen-tie easement that extends northerly toward the SCE Kramer substation, as shown on Figure 7. Based on its proximity to Kramer Junction (less than 1 mile) Site 438 was investigated further. The additional investigation was conducted by Earth Tech Inc (ETI) in 2001 on behalf of EAFB and included a review of historic aerial photographs and archived records, a field reconnaissance, and a geophysical survey at the suspected burial site. Historical aerial photographs reviewed from the 1940s and 1950s showed no evidence of disposal sites at the referenced locations. Archived records also suggested that although precision bombing targets were located in the eastern portion of the base, these bombing targets were not used to test chemical weapons such as mustard gas. Chemical weapons were reportedly tested further inside base boundaries in an area located approximately 13 miles from the Property. In combination with a review of archive records, a field reconnaissance conducted by ETI revealed no evidence of burial or surface disposal. Additionally, the geophysical survey that was performed at ERP Site 438 covered an approximate 1,400 feet by 1,400 feet area (~45 acres). The results of the geophysical surveys detected no magnetic anomalies consistent with the signature of burial trenches. The only magnetic anomalies were natural gas pipelines that are located in the northern portion of the search area.
>
> The information obtained during the investigation of Site 438 was summarized in a "No Further Investigation" (NFI) letter submitted by the Department of the Air Force to the RWQCB, DTSC, and

EPA. The NFI letter was signed by each of the agencies indicating their concurrence with the finding that no further investigation was necessary.

United States Army Corps of Engineers (USACE), 2010, Final Comprehensive Site Evaluation (CSE) Phase II, Revision 04, Military Munitions Response Program, Edward Air Force Base, California, August.

Bay West, 2019, Executive Summary Letter Report, Peak Valley Solar Farm Project, Kern County, California, January 28.

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 to the west 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 portions) and AL505-2 (central portion). Of these areas, AL505-2a (east portion) is mapped as being to the north of the west end of the proposed gen-tie easement for approximately 1.5 miles. AL505-2a (east and west portions) were recommend for No Further Action (NFA) and was later removed from the MMRP inventory by the Department of Defense Explosive Safety Board (DDESB) in March 2017. However, it should be noted that the CSE Phase II report only maps the off base portion of the overshoot area and that the overshoot area for PB-9 would have an “on-base component” that can be inferred to encompass the areas east and southeast of PB-9 overlapping with western portions of the Property.

Given that the Property is located within the boundaries of EAFB, an active military installation. Moreover, the Property passes through the EAFB PIRA and is near a known munitions response site (AL505-2) resulted in the potential for UXO or munitions debris to be present at the Property. It is recommended that any construction planning and eventual ground disturbance work should proceed under the consultation and guidance of EAFB.

5.0 SITE RECONNAISSANCE

A visit to the east end of the Property and its vicinity was conducted by Mr. Dion Monge and Mr. Joshua Sargent of Stantec on May 22, 2020. The remainder of the Property, which was located beyond the EAFB fence line, was performed by Mr. Dion Monge on June 4, 2020. Access onto EAFB was coordinated through Mr. Alex Sundquist, Vice President of Land Development for 8minute Solar Energy. Stantec was unaccompanied during the Property visits. 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 7. 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:

- Drive the outer Property boundary.
- Traverse transects across the Property.
- Visually observed areas with indication of features, activities, or disturbance.

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 spans a corridor through ten parcels of land located in San Bernardino and Kern Counties in California (Figure 2). All ten of the parcels are owned by the United States Government and operated by Edward Air Force Base (EAFB) as part of their Precision Impact Range Area (PIRA). The PIRA contains targets, gunnery ranges, and drop zones for pilots and engineers to test aircraft and weapon systems using primarily infrared laser imaging. The parcels that the proposed gen-tie passes through are contiguous and include the following: 24401012, 049226203, 049226204, 049222114, 049222113, 049222109, 049222108, 049222107, 049222106, and 049220101. Also located within the PIRA is an existing SCE overhead transmission line that crosses over and runs adjacent to the north of Property (i.e. the proposed gen-tie line).
Property Operations.	The Property is currently vacant land with no observable uses. However, it is designated by EAFB as the PIRA.
Structures, Roads, Other Improvements:	Dirt roads and high voltage transmission lines run alongside or pass through portions of the Property. No usable buildings were observed within the Property boundaries. One groundwater monitoring well

	was observed in the western portion of the Property (Figure 3, Photograph 4)
Property Size (acres):	Approximately 23 acres (6.5 miles long by 30 feet wide)
Estimated % of Property Covered by Buildings and/or Pavement:	0%
Observed Current Property Use/Operations:	The Property passes through the EAFB PIRA, as indicated by signage.
Observed Evidence of Past Property Use(s):	The PIRA signage in some areas is very old and weather damaged which indicates similar use as the present day.
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):	Signage for underground natural gas pipelines were observed that indicated gas lines pass through the north-south trending segment of the Property near Kramer Junction.
Drums (≥ 5 gallons):	None observed.
Strong, Pungent, or Noxious Odors:	None detected.
Pools of Liquid:	None observed.
Unidentified Substance Containers:	A debris pile containing old and weathered food cans, two 1-gallon gasoline cans, and a 1-gallon container of apparent paint thinner were observed offsite but adjacent to the south of the Property. The location of the debris pile is illustrated on Figure 5 and a photograph is provided in Appendix A, Photograph 11. No further investigation is recommend given that it is offsite and no staining or odors were observed in this area.
PCB-Containing Equipment:	None observed.
Other Observed Evidence of Hazardous Substances or Petroleum Products:	None observed.

5.4 INTERIOR OBSERVATIONS

No buildings are present within the Property boundaries which were enterable or habitable.

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:	None observed.
Stressed Vegetation:	None observed.
Waste Streams and Waste Collection Areas:	None observed.
Solid Waste Disposal:	As mentioned in Section 5.3, a debris pile containing old and weathered food cans, two 1-gallon gasoline cans, and a 1-gallon container of apparent paint thinner were observed offsite but adjacent to the south of the Property. The location of the debris pile is illustrated on Figure 5 and a photograph is provided in Appendix A, Photograph 11. No further investigation is recommend given that it is offsite and no staining or odors were observed in this area
Potential Areas of Fill Placement:	None observed.
Wastewater:	No exterior wastewater discharge was observed.
Stormwater:	No stormwater discharge was observed during the Property visit.
Wells:	One monitoring well was observed within the western portion of the Property, as illustrated in Figure 3. The specific use of the monitoring well is unknown but is likely a part of the EAFB Operable Unit 3, Basewide Monitoring Wells. Stantec recommends that this well be preserved during construction activities and not disturbed unless permission is provided by EAFB that the well can be destroyed/abandoned. Any destruction/abandonment would also require the appropriate permitting from Kern County.
Septic Systems:	No visible evidence of the existence of a septic system was observed.
Other Exterior Observations:	None observed. However, signage was observed indicating that the Property lies within the PIRA, as discussed in previous sections of this report

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:	Signage for underground natural gas pipelines were observed that indicated gas lines pass through the north-south trending segment of the Property near Kramer Junction. Additionally, a sign was observed in the east portion of the Property that indicated that a communications line passes through the Property.

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 desert land
EAST	The Caltrans Beecher's Corner Maintenance Station and SCE substation are adjacent to the east end of the Property, as shown on Figure 7. Vacant desert land owned by Edwards Air Force Base is to the east/southeast.
SOUTH	Vacant desert land owned by Edwards Air Force Base.
WEST	Vacant desert land owned by Edwards Air Force Base.

Refer to Figures 2 through 7.

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 Property and surrounding areas appears flat, however, elevations range from approximately 2,500 to 2,580 feet amsl. Several seasonal drainages trend in a general south to north direction through portions of the Property.

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: **Precision Impact Bombing Area (PIRA) and Target Site PB-9 Overshoot Area.** The Property is owned by the United States Government and operated by EAFB as part of their PIRA. The PIRA contains targets, gunnery ranges, and drop zones for pilots and engineers to test aircraft and weapon systems using primarily infrared laser imaging. However, in the past live fire training activities took place within the PIRA. Based on historical reports indicate that a former Precision Bombing target 9 (PB-9) was located partially outside of EAFB property resulting in an off-base overshoot area designated at AL505-2. The AL505-2 overshoot area is not located on the Property. However, the west end of the Property would presumable fall within a portion of the base that would be part of an overshoot area related to the same PB-9 target.

Opinion 1: Given that the Property is located within the boundaries of EAFB, an active military installation. Moreover, the Property passes through the EAFB PIRA and is near a known munitions response site (AL505-2) resulted in the potential for UXO or munitions debris to be present at the Property. The potential presence for UXO and/or munitions debris is considered a REC and Stantec recommends that any construction planning and eventual ground disturbance work should proceed under the consultation and guidance of EAFB.

Finding 2: **Underground Natural Gas Pipelines.** At least one underground natural gas pipeline runs through the Property (in the northeast. It is understood that this infrastructure will remain in-place during the Property development.

Opinion 2: Various leak-identification systems are in-place for such pipelines and it is unlikely that any leakage has occurred. 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 3: **Site 438.** ERP Site 438 is located in the northeast portion of EAFB along the segment of the proposed gen-tie easement that extends northerly toward the SCE Kramer substation, as shown on Figure 7. Site 438 was suspected of being a disposal site for mustard cans, picric acid, and live fuses based on an archived base map from 1953 Based on its proximity to Kramer Junction (less than 1 mile) Site 438 was investigated

further. The additional investigation was conducted by Earth Tech Inc (ETI) in 2001 on behalf of EAFB and included a review of historic aerial photographs and archived records, a field reconnaissance, and a geophysical survey at the suspected burial site. Historical aerial photographs reviewed from the 1940s and 1950s showed no evidence of a disposal site at this location. Archived records also suggested that although precision bombing targets were located in the eastern portion of the base, these bombing targets were not used to test chemical weapons such as mustard gas. Chemical weapons were reportedly tested further inside base boundaries in an area located approximately 13 miles from the Property. In combination with a review of archive records, a field reconnaissance conducted by ETI revealed no evidence of burial or surface disposal. Additionally, the geophysical survey that was performed at ERP Site 438 covered an approximate 1,400 feet by 1,400 feet area (~45 acres). The results of the geophysical surveys detected no magnetic anomalies consistent with the signature of burial trenches. The only magnetic anomalies were natural gas pipelines that are located in the northern portion of the search area.

Opinion 3: The information obtained during the investigation of Site 438 was summarized in a "No Further Investigation" (NFI) letter submitted by the Department of the Air Force to the RWQCB, DTSC, and EPA. The NFI letter was signed by each of the agencies indicating their concurrence with the finding that no further investigation was necessary. Given the NFI issued by three environmental agencies, Stantec recommends no further investigation of this issue.

Finding 4: **Water Wells.** One monitoring well was observed within the western portion of the Property, as illustrated in Figure 3.

Opinion 4: The specific use of the monitoring well is unknown but is likely a part of the EAFB Operable Unit 3, Basewide Monitoring Wells. Stantec recommends that this well be preserved during construction activities and not disturbed unless permission is provided by EAFB that the well can be destroyed/abandoned. Any destruction/abandonment would also require the appropriate permitting from Kern County.

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

Gap	Discussion
Weather-Related Restrictions to Site Reconnaissance:	None
Facility Access Restrictions to Site Reconnaissance:	None
Other Site Reconnaissance Restrictions:	None
Data Gaps from Environmental Records Review:	None
Data Gaps from Historical Records Review:	None
Data Gaps from Interviews:	Stantec attempted to contact Ms. Claudia Basura and Mr. Paul Schiff with the Environmental Restoration Program (ERP) and Ordnance Disposal Unit, recspectively. As of the date of this report, no response has been received regarding Stantec's inquiry. As a result this is considered a data gap. However, Stantec has been informed that a response from Ms. Basura will be required as part of the Form 813 process. If Mr. Basura's response changes the conclusions of this report, an addendum will be issued discussing the changes.
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 the proposed gen-tie easement through EAFB land to the south of the communities of Boron and Kramer Junction, in Kern and San Bernardino Counties, 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:

- **Precision Impact Bombing Area (PIRA) and Target Site PB-9 Overshoot Area.** The Property is owned by the United States Government and operated by EAFB as part of their PIRA. The PIRA contains targets, gunnery ranges, and drop zones for pilots and engineers to test aircraft and weapon systems using primarily infrared laser imaging. However, in the past live fire training activities took place within the PIRA. Based on historical reports indicate that a former Precision Bombing target 9 (PB-9) was located partially outside of EAFB property resulting in an off-base overshoot area designated at AL505-2. The AL505-2 overshoot area is not located on the Property. However, the west end of the Property would presumable fall within a portion of the base that would be part of an overshoot area related to the same PB-9 target.

  Given that the Property is located within the boundaries of EAFB, an active military installation. Moreover, the Property passes through the EAFB PIRA and is near a known munitions response site (AL505-2) resulted in the potential for unexploded ordnance (UXO) or munitions debris to be

present at the Property. The potential presence for UXO and/or munitions debris is considered a REC and Stantec recommends that any construction planning and eventual ground disturbance work should proceed under the consultation and guidance of EAFB. Stantec is not recommending any further assessment of UXO and/or munitions debris, at this time apart from what would be required by EAFB.

In addition, Stantec identified the following items of note that should be considered during construction planning:

- **Underground Natural Gas Pipelines.** At least one underground natural gas pipeline runs through the Property (in the northeast. It is understood that this infrastructure will remain in-place during the Property development. Various leak-identification systems are in-place for such pipelines and it is unlikely that any leakage has occurred. 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.
- **Water Wells.** One monitoring well was observed within the western portion of the Property, as illustrated in Figure 3. The specific use of the monitoring well is unknown but is likely a part of the EAFB Operable Unit 3, Basewide Monitoring Wells. Stantec recommends that this well be preserved during construction activities and not disturbed unless permission is provided by EAFB that the well can be destroyed/abandoned. Any destruction/abandonment would also require the appropriate permitting from Kern County.

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
N/A	No	There are no painted structures or surfaces at the Property.

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.

There are no buildings structures on the Property, therefore ACM is unlikely. However, Stantec makes no warranty as to the possible existence or absence of inaccessible materials or to their evaluation with respect to asbestos content, especially if underground utilities are present that are coated with, or wrapped with ACM. 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.

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.

California Department of Water Resources (CDWR), 2004, California Groundwater Bulletin 118, South Lahontan Hydrologic Region, Harper Valley Groundwater Basin.

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 6089723.2s, dated June 12, 2019.

_____, EDR Historical Topo Map Report, Inquiry Number 6089723.5, dated June 15, 2020.

_____, EDR Historical Aerial Report, Inquiry number 6089723.6, dated June 19, 2020.

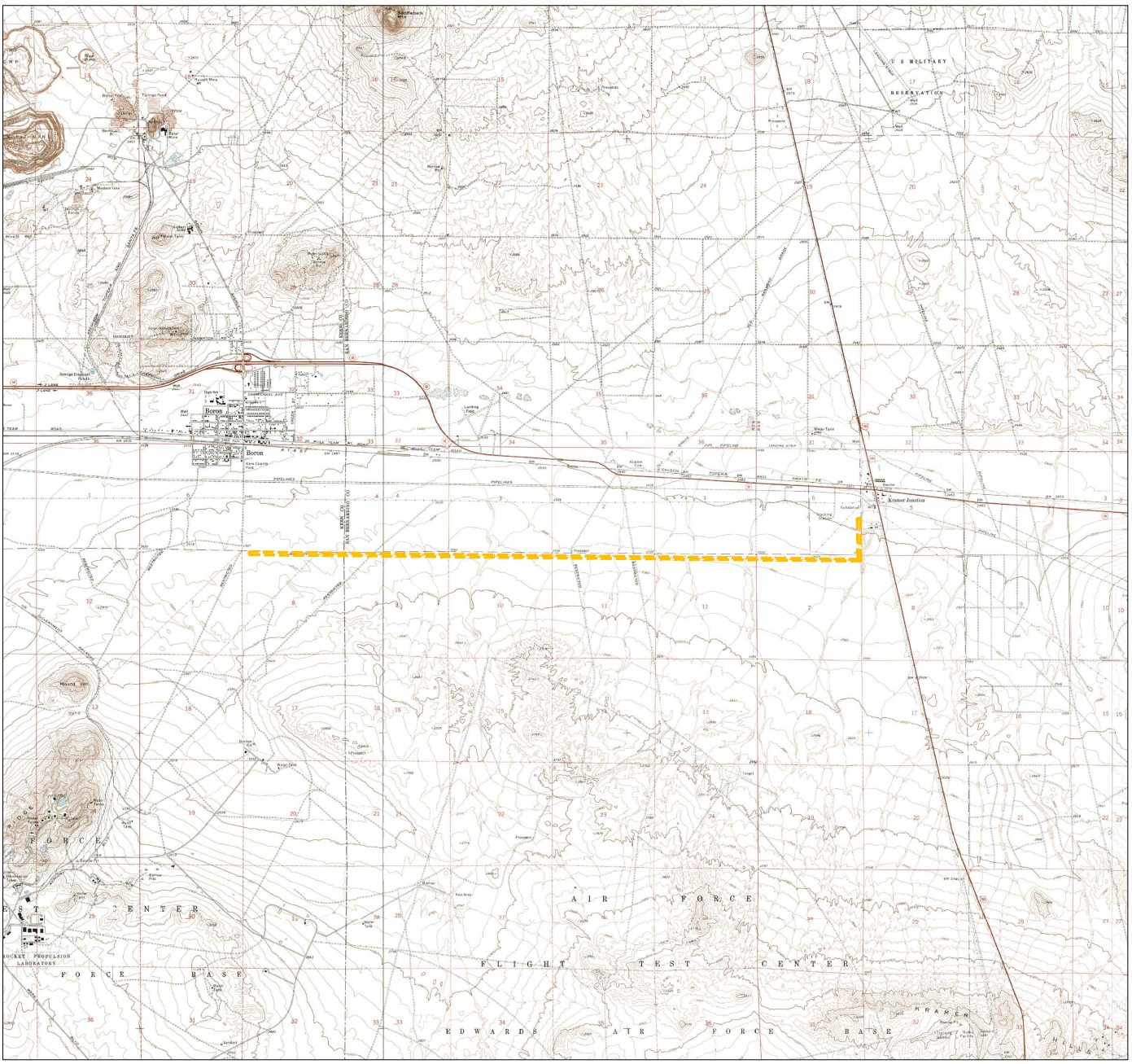
_____, EDR DataMap Well Search Report, Inquiry Number 6089723.2w, dated June 12, 2020.

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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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

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FOR:		FIGURE:
ARATINA GENTIE EASEMENT KERN AND SAN BERNARDINO COUNTIES CALIFORNIA	PROPERTY LOCATION MAP	1

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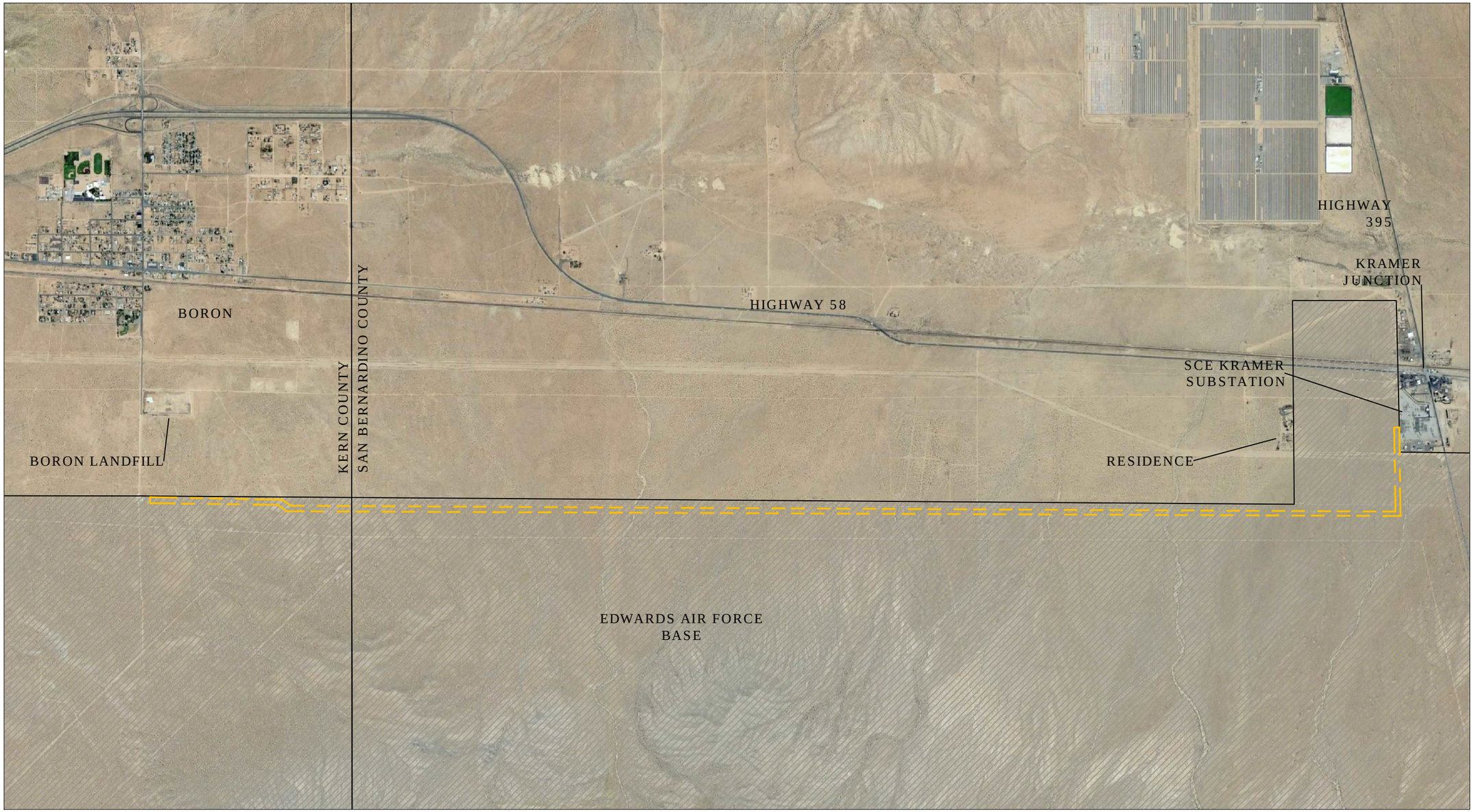

LEGEND

APPROXIMATE LIMITS OF GENTIE EASEMENT

APPROXIMATE EXTENT OF EDWARDS AIR FORCE BASE

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SCALE (MILES)

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FOR:
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KERN AND SAN BERNARDINO COUNTIES
CALIFORNIA

PROPERTY AREA AND VICINITY MAP

FIGURE: 2

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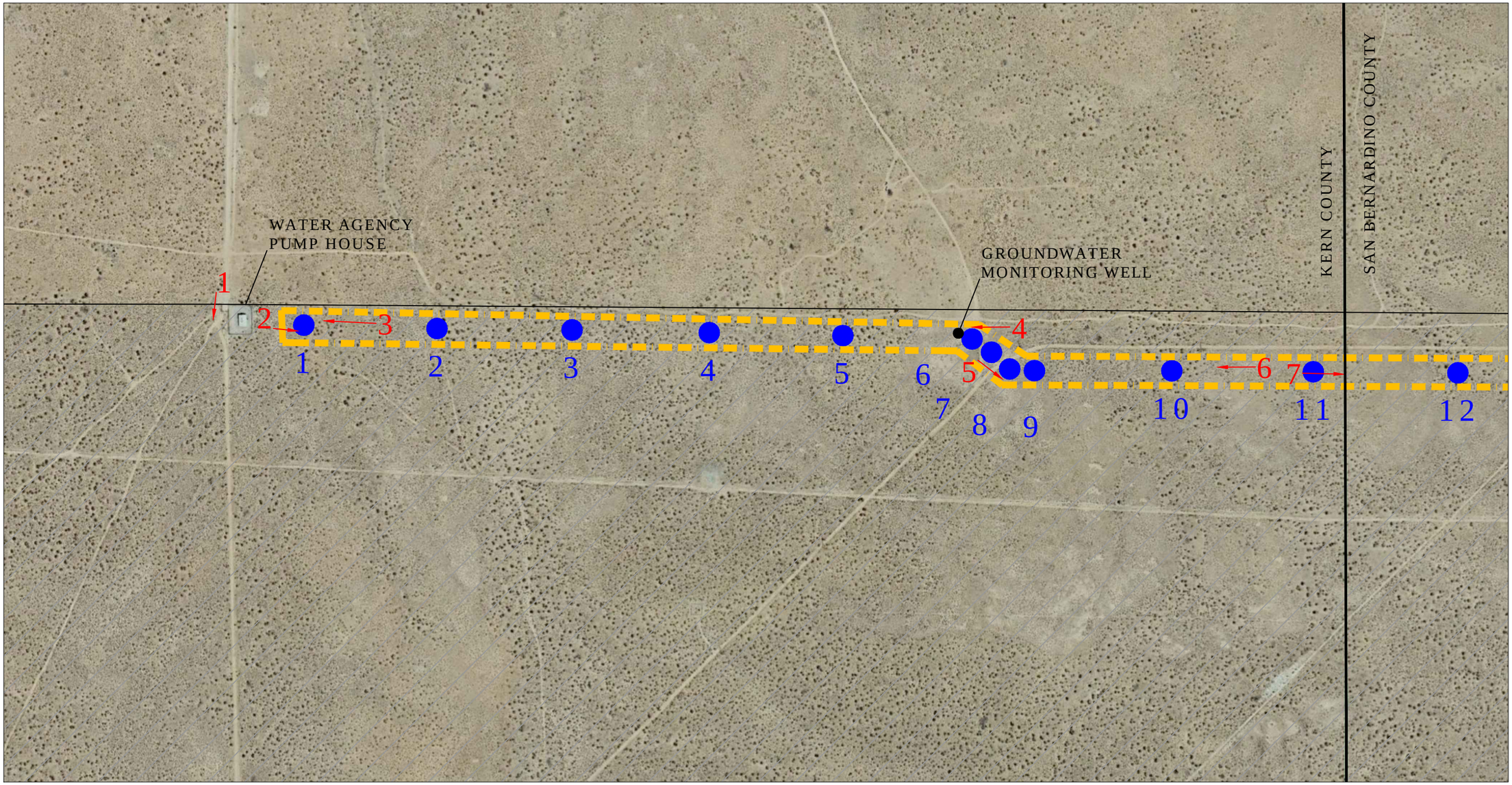

LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- 1 APPROXIMATE LOCATION OF PROPOSED ELECTRICAL TOWER
- 1 APPROXIMATE LOCATION OF PHOTOLOG PICTURE
- APPROXIMATE EXTENT OF EDWARDS AIR FORCE BASE

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FOR:
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CALIFORNIA

PROPERTY DETAIL MAP

FIGURE: 3

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LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- 1 APPROXIMATE LOCATION OF PROPOSED ELECTRICAL TOWER
- 1 APPROXIMATE LOCATION OF PHOTOLOG PICTURE
- APPROXIMATE EXTENT OF EDWARDS AIR FORCE BASE

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PROPERTY DETAIL MAP

FIGURE: 4

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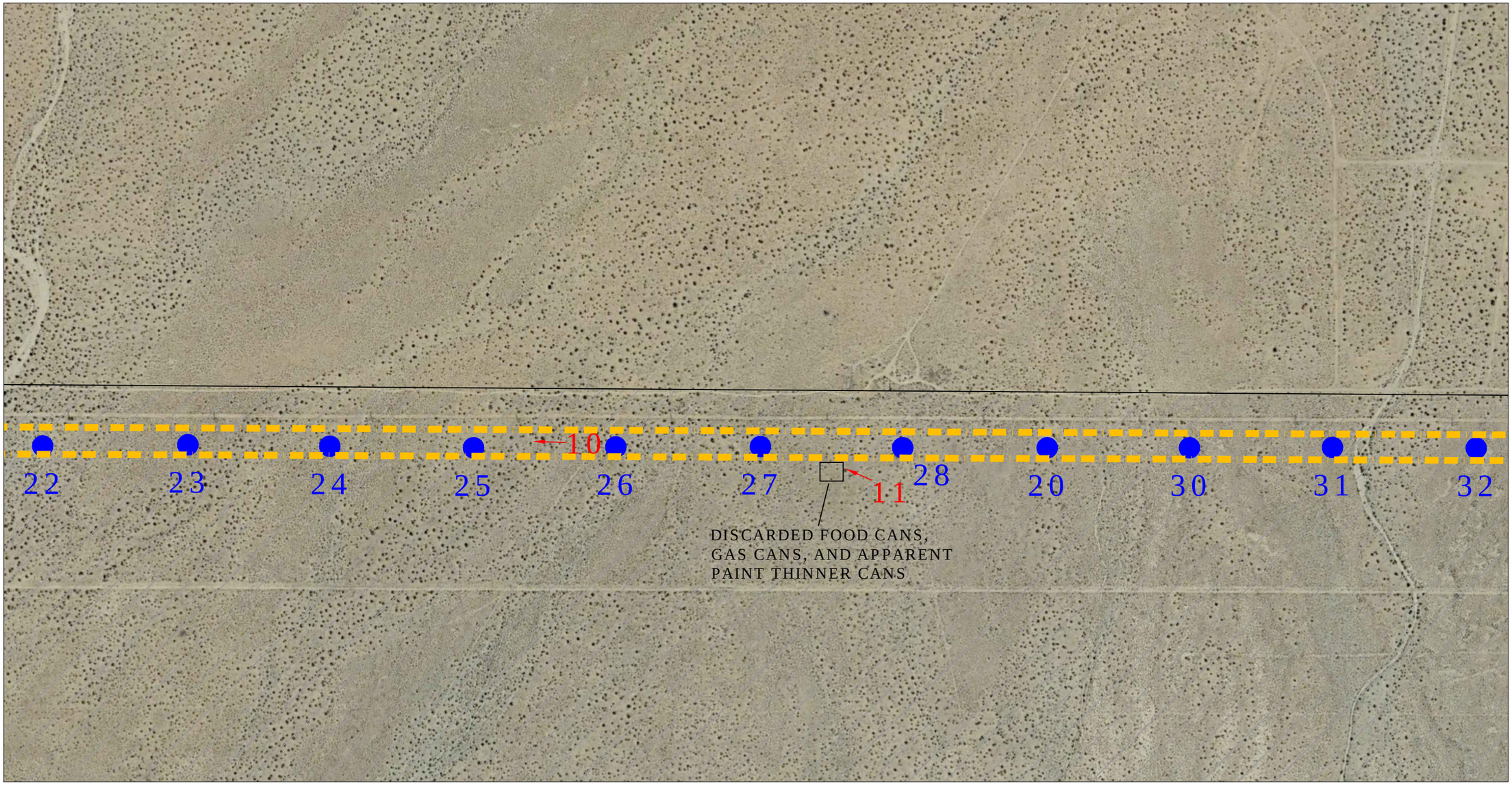

LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- 1 APPROXIMATE LOCATION OF PROPOSED ELECTRICAL TOWER
- 1 APPROXIMATE LOCATION OF PHOTOLOG PICTURE
- APPROXIMATE EXTENT OF EDWARDS AIR FORCE BASE

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FOR: ARATINA GENTIE EASEMENT
KERN COUNTY, CALIFORNIA

PROPERTY DETAIL MAP

FIGURE: 5

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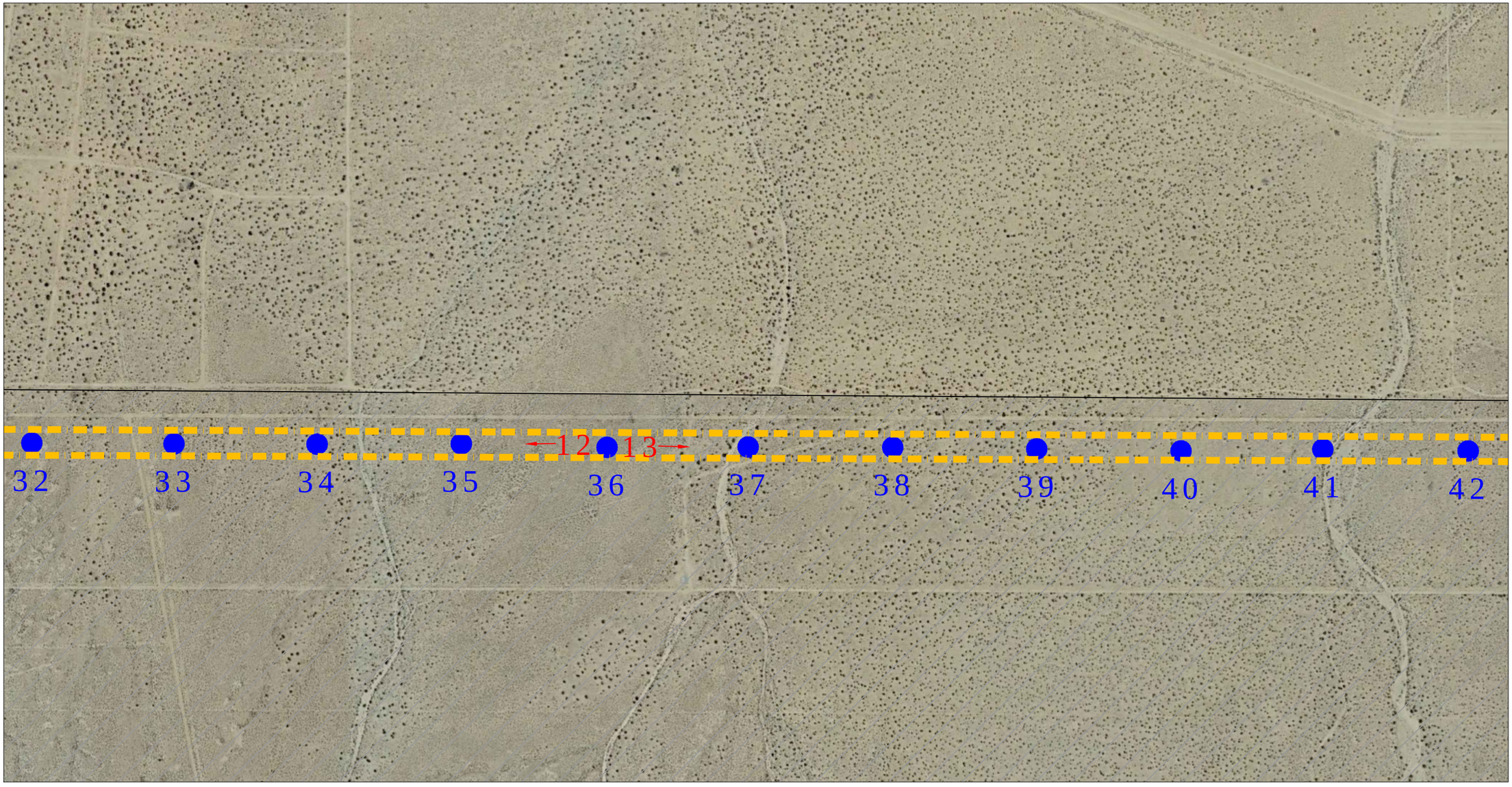

LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- 1 APPROXIMATE LOCATION OF PROPOSED ELECTRICAL TOWER
- 1 APPROXIMATE LOCATION OF PHOTOLOG PICTURE
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PROPERTY DETAIL MAP

FIGURE: 6

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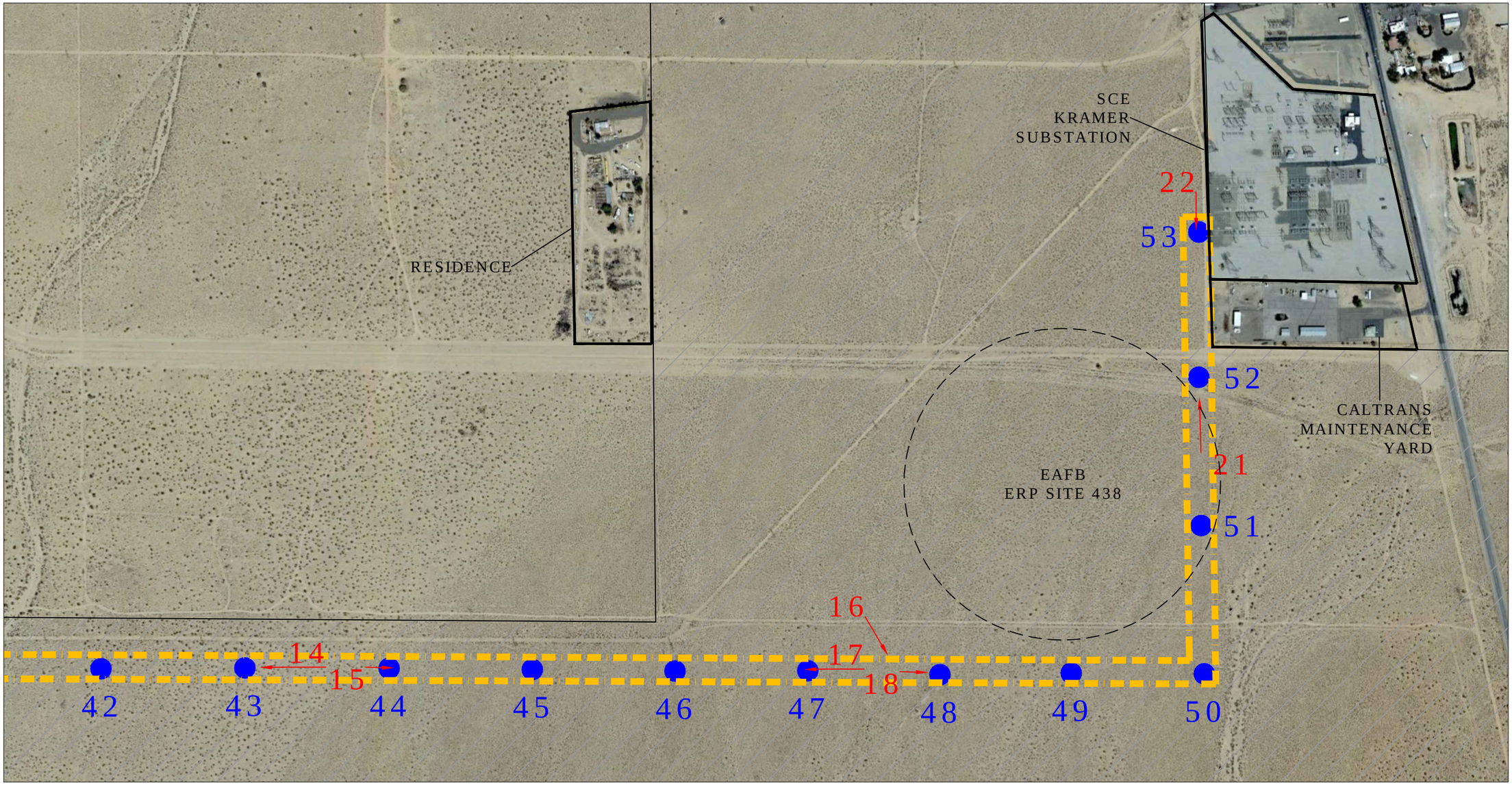

LEGEND

- APPROXIMATE LIMITS OF PROPERTY
- 1 APPROXIMATE LOCATION OF PROPOSED ELECTRICAL TOWER
- 1 APPROXIMATE LOCATION OF PHOTOLOG PICTURE
- APPROXIMATE EXTENT OF EDWARDS AIR FORCE BASE

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PROPERTY DETAIL MAP

FIGURE: 7

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APPENDICES

Appendix A Photographs of the Property and Vicinity

Photo #1 Boron Gate into EAFB off of Boron Road. The gate is located west of the Property.

Photo #2 Facing east from the west end of the Property.

Photo #3 Facing west toward the offsite water agency building that is approximately 250 feet west of the Property.

Photo #4 Facing west at a groundwater monitoring well located in the western portion of the Property (Figure 3).

Photo #5 Facing east along the Property alignment (Figure 3).

Photo #6 Facing west along the Property alignment (Figure 3).

Photo #7 Facing east along the Property alignment (refer to Figure 3).

Photo #8 Facing west along the Property alignment (Figure 4).

Photo #9 Facing east toward the Property alignment (Figure 4).

Photo #10 Facing west toward the Property alignment (Figure 5)

Photo #11 View of old discarded food cans, three gas cans, and an apparent paint thinner can adjacent to the south of the proposed gen-tie easement, i.e. the Property (Figure 5).

Photo #12 Facing west toward the Property alignment (Figure 6).

Photo #13 Facing east toward the Property alignment (Figure 6).

Photo #14 Facing west toward the Property alignment (Figure 7).

Photo #15 Facing east toward the Property alignment (Figure 7).

Photo #16 Sign indicating buried communication line near the east end of the Property (Figure 7)

Photo #17 Facing west toward the Property alignment (Figure 7).

Photo #18 Facing east toward the Property alignment (Figure 7).

Photo #19 Facing west at the point where the proposed gen-tie easement turns north toward the SCE Kramer substation (Figure 7).

Photo #20 Facing north at the point where the proposed gen-tie easement turns north toward the SCE Kramer substation (Figure 7).

Photo #21 Facing north near the SCE Kramer substation (Figure 7).

Photo #22 Facing south near the SCE Kramer substation (Figure 7).

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

From: Alexander Sundquist
To: Monge, Dion
Subject: RE: EAFB question regarding environmental restoration/cleanup sites
Date: Wednesday, July 08, 2020 12:17:05 PM

That sounds good, we can always supplement later. I've reached out to Andrea again re: Claudia, but not worth waiting for that.

Re: the questionnaire: I have no information to provide in response to the user questionnaire. You know more than I do about the site at this point!

ALEXANDER SUNDQUIST | VP, Land Development
8minute Solar Energy
(d) 424.234.6947
(e) asundquist@8minute.com

From: Monge, Dion <Dion.Monge@stantec.com>
Sent: Wednesday, July 8, 2020 12:09
To: Alexander Sundquist <asundquist@8minute.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

I was going to email you on this. I have not heard from either of them. So my plan is to go ahead and finish off the limited amount I have remaining on the report and leave that section highlighted for now so we can get the report through Stantec senior review and the 8me review. Hopefully we will hear back from them by that time and can add it in. Otherwise we can finalize it with language indicating that an addendum will be issued if the conclusions change based on information from Paul or Claudia. Will that work?

Also, can you send back the completed user questionnaire I sent a few weeks ago? If you don't know anything about the property, a simple email will do indicating that you have no information to provide in response to the user questionnaire. I have attached user questionnaire again if you need it.

Dion Monge
Senior Scientist

Mobile: 909 556-6516
Fax: 909 335-6120
Dion.Monge@stantec.com

Stantec
735 East Carnegie Drive Suite 280
San Bernardino CA 92408-3588

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From: Alexander Sundquist <asundquist@8minute.com>
Sent: Wednesday, July 08, 2020 11:26 AM
To: Monge, Dion <Dion.Monge@stantec.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

Any luck on this front? I haven't head back from Andrea or Paul.

ALEXANDER SUNDQUIST | VP, Land Development
8minute Solar Energy
(d) 424.234.6947
(e) asundquist@8minute.com

From: Alexander Sundquist
Sent: Tuesday, June 30, 2020 09:52
To: Monge, Dion <Dion.Monge@stantec.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

Btw if we needed to, could we wrap up a draft of the report without this missing info? Andrea has asked us to submit our application by mid March if possible, and our EA consultant needs time to fold reports in.

ALEXANDER SUNDQUIST | VP, Land Development
8minute Solar Energy
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(e) asundquist@8minute.com

From: Alexander Sundquist
Sent: Tuesday, June 30, 2020 09:46
To: Monge, Dion <Dion.Monge@stantec.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

We've reached out to Paul but haven't received a response. Definitely feel free to try Paul as well. I'll ping Andrea too.

ALEXANDER SUNDQUIST | VP, Land Development
8minute Solar Energy
(d) 424.234.6947
(e) asundquist@8minute.com

From: Monge, Dion <Dion.Monge@stantec.com>
Sent: Tuesday, June 30, 2020 09:01
To: Alexander Sundquist <asundquist@8minute.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

Hi Alex,
I tried the number and it says its "no longer in service or has been disconnected". Should I just reach out to Paul Schiff as a backup?

Dion Monge
Senior Scientist

Mobile: 909 556-6516
Fax: 909 335-6120
Dion.Monge@stantec.com

Stantec

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From: Alexander Sundquist <asundquist@8minute.com>
Sent: Friday, June 26, 2020 10:24 AM
To: Monge, Dion <Dion.Monge@stantec.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

Here's her number: 661-527-1479

ALEXANDER SUNDQUIST | VP, Land Development
8minute Solar Energy
(d) 424.234.6947
(e) asundquist@8minute.com

From: Alexander Sundquist
Sent: Wednesday, June 24, 2020 14:48
To: Monge, Dion <Dion.Monge@stantec.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

I'll see if I can get Claudia's number for you. Is there a backup plan if we can't get a hold of her?

ALEXANDER SUNDQUIST | VP, Land Development
8minute Solar Energy
(d) 424.234.6947
(e) asundquist@8minute.com

From: Monge, Dion <Dion.Monge@stantec.com>
Sent: Wednesday, June 24, 2020 12:12
To: Alexander Sundquist <asundquist@8minute.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

Thanks for the description. I will add it to the report.

I have not heard from Claudia yet so I just sent her a follow up email checking in.

Dion Monge
Senior Scientist

Mobile: 909 556-6516
Fax: 909 335-6120
Dion.Monge@stantec.com

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From: Alexander Sundquist <asundquist@8minute.com>
Sent: Wednesday, June 24, 2020 12:09 PM
To: Monge, Dion <Dion.Monge@stantec.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

Hi Dion any luck with Claudia?

Btw, we yet don't have a specific project description for the gen-tie other than what will be in the EA (currently being drafted). We're working on some high-level language, plus more detailed options. Here's an example (draft) of the former, in case you need it for the report:

Power generated by the Aratina Solar Farm would be delivered from the Aratina project site, located entirely on private land, via an up to 230 kV electrical transmission line originating from an on-site substation and terminating at the existing SCE Kramer Substation. The proposed line would be located entirely within an existing Edwards Air Force Base utility corridor (Corridor 5), and would utilize single- or double-circuit monopole and/or H-frame structures, typically spaced 500 to 700 feet apart.

ALEXANDER SUNDQUIST | VP, Land Development
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(e) asundquist@8minute.com

From: Monge, Dion <Dion.Monge@stantec.com>
Sent: Monday, June 15, 2020 15:15
To: Alexander Sundquist <asundquist@8minute.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

Yes! I remember Claudia's name now that you mention it. Ill reach out to her on the ERPs

thanks

Dion Monge
Senior Scientist

Mobile: 909 556-6516
Fax: 909 335-6120
Dion.Monge@stantec.com

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From: Alexander Sundquist <asundquist@8minute.com>
Sent: Monday, June 15, 2020 3:10 PM
To: Monge, Dion <Dion.Monge@stantec.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

Ah, my team was working with Paul on the UXO issues off-base. Back in April, Paul said that Claudia Basura was the new manager as it sounded like he was in a new role. Perhaps you can try Claudia, and if you don't receive a response I can ping Andrea and Dave about who else to try.

Claudia's email is as follows:
claudia.basura.1@us.af.mil

ALEXANDER SUNDQUIST | VP, Land Development
8minute Solar Energy
(d) 424.234.6947
(e) asundquist@8minute.com

From: Monge, Dion <Dion.Monge@stantec.com>
Sent: Monday, June 15, 2020 14:49
To: Alexander Sundquist <asundquist@8minute.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

His name was
Paul Schiff
Edwards Remedial Project Manager
PM - OU1/8 & MMRP

Dion Monge
Senior Scientist

Mobile: 909 556-6516
Fax: 909 335-6120
Dion.Monge@stantec.com

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From: Alexander Sundquist <asundquist@8minute.com>
Sent: Monday, June 15, 2020 2:21 PM
To: Monge, Dion <Dion.Monge@stantec.com>
Subject: RE: EAFB question regarding environmental restoration/cleanup sites

Will do, can you let me know who your previous contact was, and/or their department? That will

likely help to get an answer.

ALEXANDER SUNDQUIST | VP, Land Development
8minute Solar Energy
(d) 424.234.6947
(e) asundquist@8minute.com

From: Monge, Dion <Dion.Monge@stantec.com>
Sent: Monday, June 15, 2020 14:10
To: Alexander Sundquist <asundquist@8minute.com>
Subject: EAFB question regarding environmental restoration/cleanup sites

Alex,
Can you pass along this question to EAFB?

Are there any known Environmental Restoration Program (ERP) sites, or other environmental cleanup sites, along or within 250 feet of the north fence line of the base from the Boron Gate to Kramer Junction? Based on information we have gathered to date, we are aware of ERP Sites 437, 438, and 469 near Kramer Junction but wanted to check in to see if there are any others.

Dion Monge
Senior Scientist

Mobile: 909 556-6516
Fax: 909 335-6120
Dion.Monge@stantec.com

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Appendix D ENVIRONMENTAL AGENCY DATABASE SEARCH REPORT

64NB 8me, LLC, Aratina Gen-tie
64NB 8me, LLC, Aratina Gen-tie
Boron, CA 93524

Inquiry Number: 6089723.2s
June 12, 2020

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

64NB 8ME, LLC, ARATINA GEN-TIE
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 04/27/2020 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 / 7,6,13,14,9,10,11,12***	***35***

Federal CERCLIS list

SEMS: Superfund Enterprise Management System

A review of the SEMS list, as provided by EDR, and dated 04/27/2020 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 / 7,6,13,14,9,10,11,12***	***35***

EXECUTIVE SUMMARY

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

A review of the CORRACTS list, as provided by EDR, and dated 03/23/2020 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 / 7,6,13,14,9,10,11,12***	***35***

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 03/23/2020 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 / 7,6,13,14,9,10,11,12***	***35***

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

A review of the RCRA-LQG list, as provided by EDR, and dated 03/23/2020 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 / 7,6,13,14,9,10,11,12***	***35***

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 02/13/2020 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 / 7,6,13,14,9,10,11,12***	***35***

US INST CONTROLS: Institutional Controls Sites List

A review of the US INST CONTROLS list, as provided by EDR, and dated 02/13/2020 has revealed that there is 1 US INST CONTROLS 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 / 7,6,13,14,9,10,11,12***	***35***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/27/2020 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 Facility Id: 15970001 Status: Active	***5 EAST POPSON AVE BL***	***Region / 7,6,13,14,9,10,11,12***	***35***

ADDITIONAL ENVIRONMENTAL RECORDS

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 / 7,6,13,14,9,10,11,12***	***35***

PFAS: PFAS Contamination Site Location Listing

A review of the PFAS list, as provided by EDR, and dated 03/09/2020 has revealed that there is 1 PFAS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EDWARDS AIR FORCE BA	***5 EAST POPSON AVE BL***	***Region / 7,6,13,14,9,10,11,12***	***35***

Local Land Records

DEED: Deed Restriction Listing

A review of the DEED list, as provided by EDR, and dated 03/02/2020 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 / 7,6,13,14,9,10,11,12***	***35***

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 / 6,7,2,9,13,14,10,12,11	35

ROD: Records Of Decision

A review of the ROD list, as provided by EDR, and dated 04/27/2020 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 / 7,6,13,14,9,10,11,12***	***35***

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 / 7,6,13,14,9,10,11,12***	***35***

PRP: Potentially Responsible Parties

A review of the PRP list, as provided by EDR, and dated 04/27/2020 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 / 7,6,13,14,9,10,11,12***	***35***

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 / 7,6,13,14,9,10,11,12***	***35***
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 / 7,6,13,14,9,10,11,12***	***35***
Database: US AIRS (AFS), Date of Government Version: 10/12/2016			
EPA plant ID:: 110000908466			

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 / 7,6,13,14,9,10,11,12***	***35***

ICE: ICE

A review of the ICE list, as provided by EDR, and dated 02/18/2020 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 / 7,6,13,14,9,10,11,12***	***35***

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.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/27/2020 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
KRAMER POTASH PLANT Facility Id: 80000882 Status: Inactive - Needs Evaluation		NE 1/2 - 1 (0.504 mi.)	A7 / 7	400

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 are 2 SWF/LF sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
CALTRANS BEECHERS MA Database: SWF/LF (SWIS), Date of Government Version: 02/10/2020 Facility ID: 36-AA-0468 Operational Status: Active Regulation Status: Notification	***40400 JCT US 395***	***NNE 1/4 - 1/2 (0.356 mi.)***	***3 / 7***	***361***
KERN COUNTY PUBLIC W Database: SWF/LF (SWIS), Date of Government Version: 02/10/2020 Facility ID: 15-AA-0045 Operational Status: Active Regulation Status: Permitted	***11400 BORON AVENUE***	***N 1/4 - 1/2 (0.463 mi.)***	***5 / 3***	***394***

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 is 1 LUST site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
FEDERAL PRISON CAMP Database: LUST REG 6V, Date of Government Version: 06/07/2005 Status: Leak being confirmed	***HWY 395***	***NNE 1/4 - 1/2 (0.287 mi.)***	***1 / 7***	***359***

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 CLASS III LAND	***5 MI SO OF BORON***	***N 1/4 - 1/2 (0.456 mi.)***	***4 / 3***	***363***

Other Ascertainable Records

FUDS: Formerly Used Defense Sites

A review of the FUDS list, as provided by EDR, and dated 01/28/2020 has revealed that there is 1 FUDS site within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
KRAMER POTASH PLANT		NE 1/2 - 1 (0.502 mi.)	A6 / 7	400

UXO: Unexploded Ordnance Sites

A review of the UXO list, as provided by EDR, and dated 12/31/2017 has revealed that there are 2 UXO sites within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
OFF BASE ADJACENT AR		NW 1/2 - 1 (0.768 mi.)	B8 / 2	401
OFF BASE ADJACENT AR		NW 1/2 - 1 (0.768 mi.)	B9 / 2	402

Cortese: "Cortese" Hazardous Waste & Substances Sites List

A review of the Cortese list, as provided by EDR, and dated 03/23/2020 has revealed that there is 1 Cortese site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
FEDERAL PRISON CAMP	***HWY 395***	***NNE 1/4 - 1/2 (0.287 mi.)***	***1 / 7***	***359***
Cleanup Status: COMPLETED - CASE CLOSED				

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 2 HIST CORTESE sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
FEDERAL PRISON CAMP	***HWY 395***	***NNE 1/4 - 1/2 (0.287 mi.)***	***1 / 7***	***359***

EXECUTIVE SUMMARY

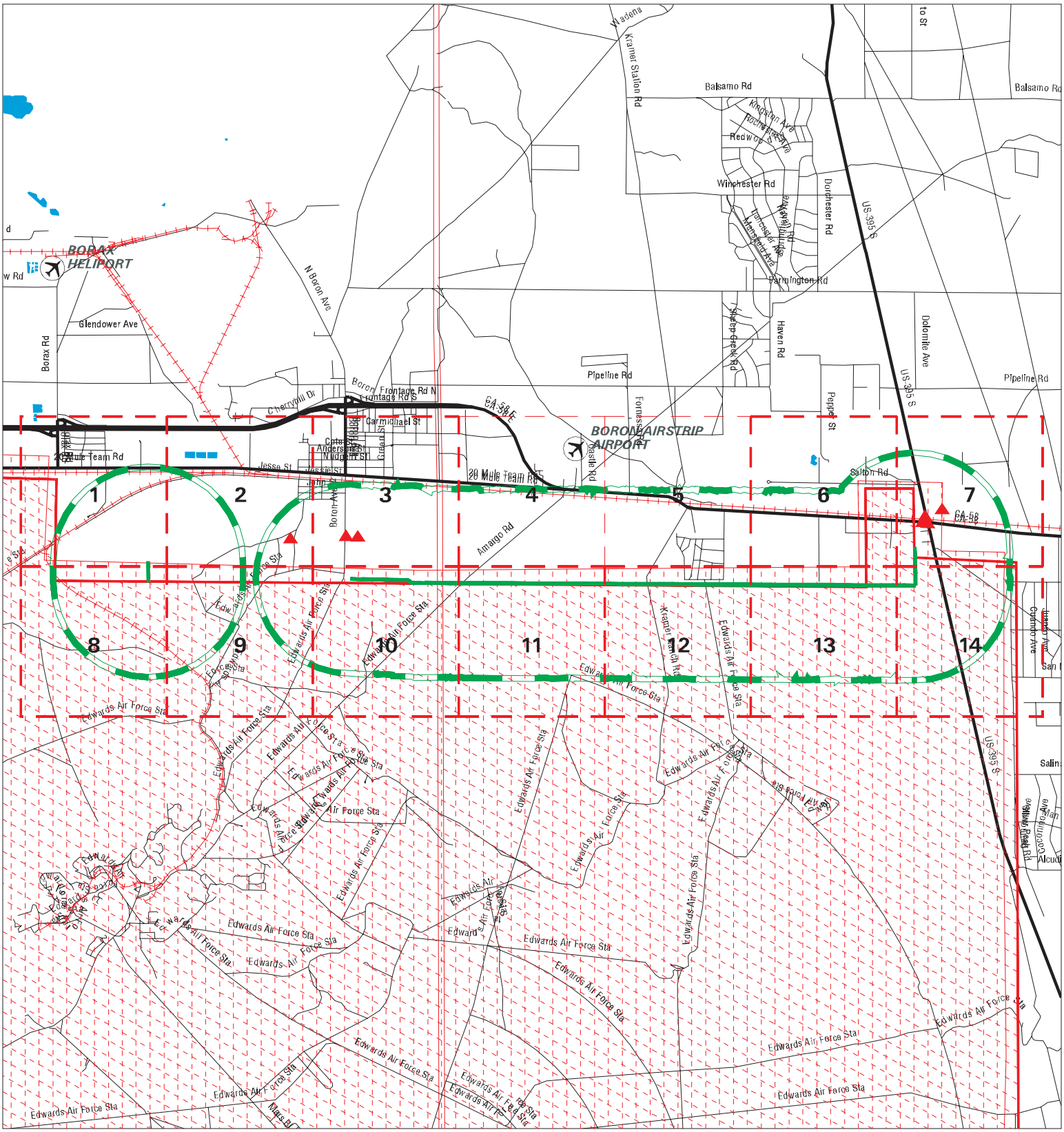
Reg Id: 6B1500139T				
FOUR CORNERS UNOCAL Reg Id: 6B3600205T	HWY 395 & HWY 58	NNE 1/4 - 1/2 (0.298 mi.)	2 / 7	361

MAPPED SITES SUMMARY

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP		
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG...	TP		
1 / 7	FEDERAL PRISON CAMP	HWY 395	LUST, HIST UST, Cortese, HIST CORTESE	1514	0.287	NNE
2 / 7	FOUR CORNERS UNOCAL	HWY 395 & HWY 58	HIST CORTESE	1572	0.298	NNE
3 / 7	CALTRANS BEECHERS MA	40400 JCT US 395	SWF/LF, CERS	1878	0.356	NNE
4 / 3	BORON CLASS III LAND	5 MI SO OF BORON	WMUDS/SWAT, LDS, ENF, WDS, CIWQS, CERS	2408	0.456	North
5 / 3	KERN COUNTY PUBLIC W	11400 BORON AVENUE	SWF/LF, CERS HAZ WASTE, Financial Assura...	2445	0.463	North
A6 / 7	KRAMER POTASH PLANT		FUDS	2648	0.502	NE
A7 / 7	KRAMER POTASH PLANT		ENVIROSTOR	2662	0.504	NE
B8 / 2	OFF BASE ADJACENT AR		UXO	4057	0.768	NW
B9 / 2	OFF BASE ADJACENT AR		UXO	4057	0.768	NW

Key Map - 6089723.2s



SITE NAME: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20 9:42 AM

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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	0	NR	1
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		0	0	NR	NR	NR	0
RCRA-VSQG	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 CONTROLS	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	0	0	0	1	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	2	NR	NR	2
State and tribal leaking storage tank lists								
LUST	0.500		0	0	1	NR	NR	1

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		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
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		0	0	1	NR	NR	1
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
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		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500	1	0	0	0	NR	NR	1
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	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
LIENS 2	TP		NR	NR	NR	NR	NR	0
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		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
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	1	NR	1
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		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	2	NR	2
DOCKET HWC	TP	1	NR	NR	NR	NR	NR	1
ECHO	TP		NR	NR	NR	NR	NR	0
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	1	NR	NR	1
CUPA Listings	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
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP	1	NR	NR	NR	NR	NR	1
HIST CORTESE	0.500		0	0	2	NR	NR	2
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		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
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		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	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
MINES MRDS	TP		NR	NR	NR	NR	NR	0
HWTS	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		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		19	0	0	7	4	0	30

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

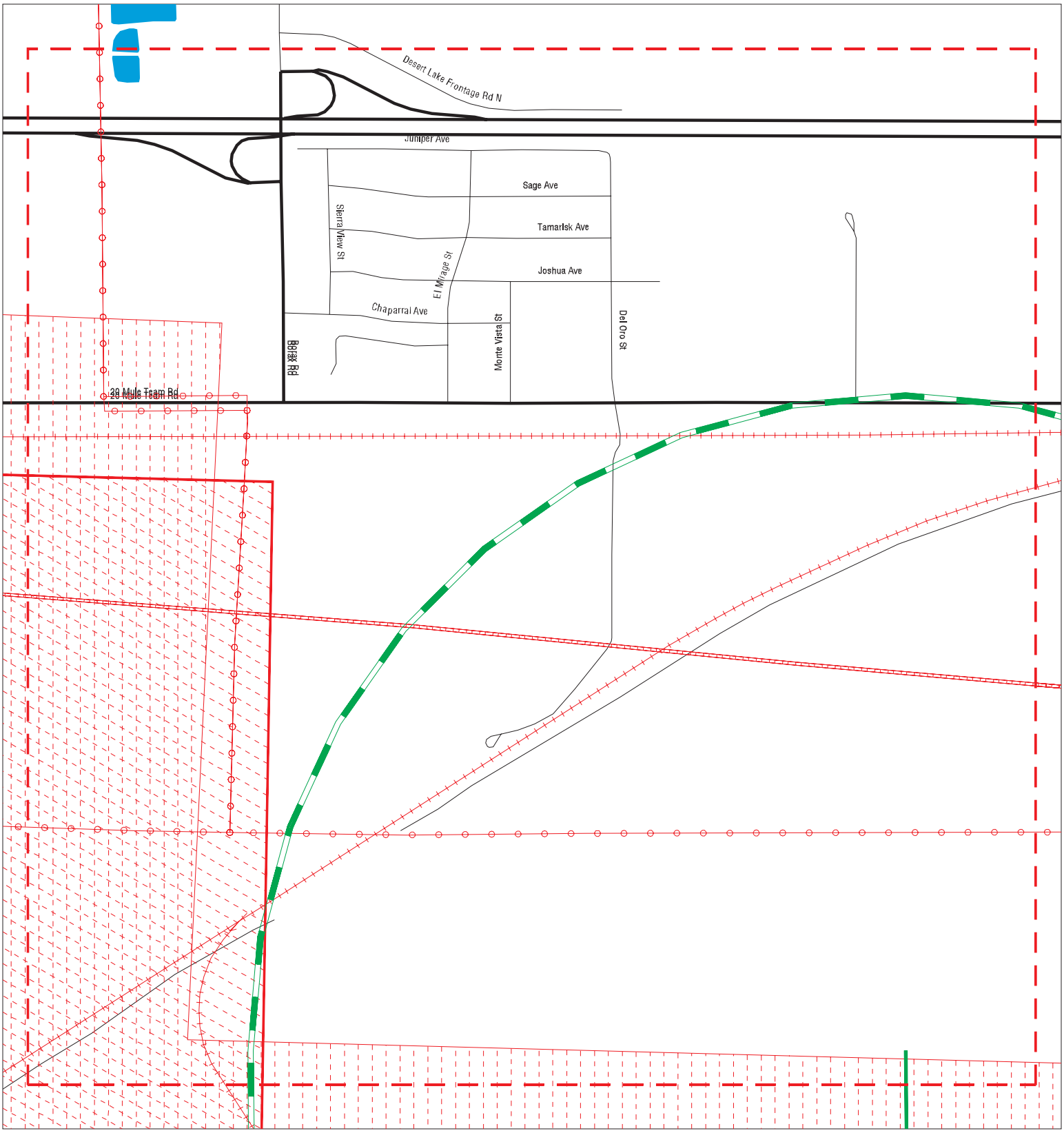
NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 6089723.2s



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: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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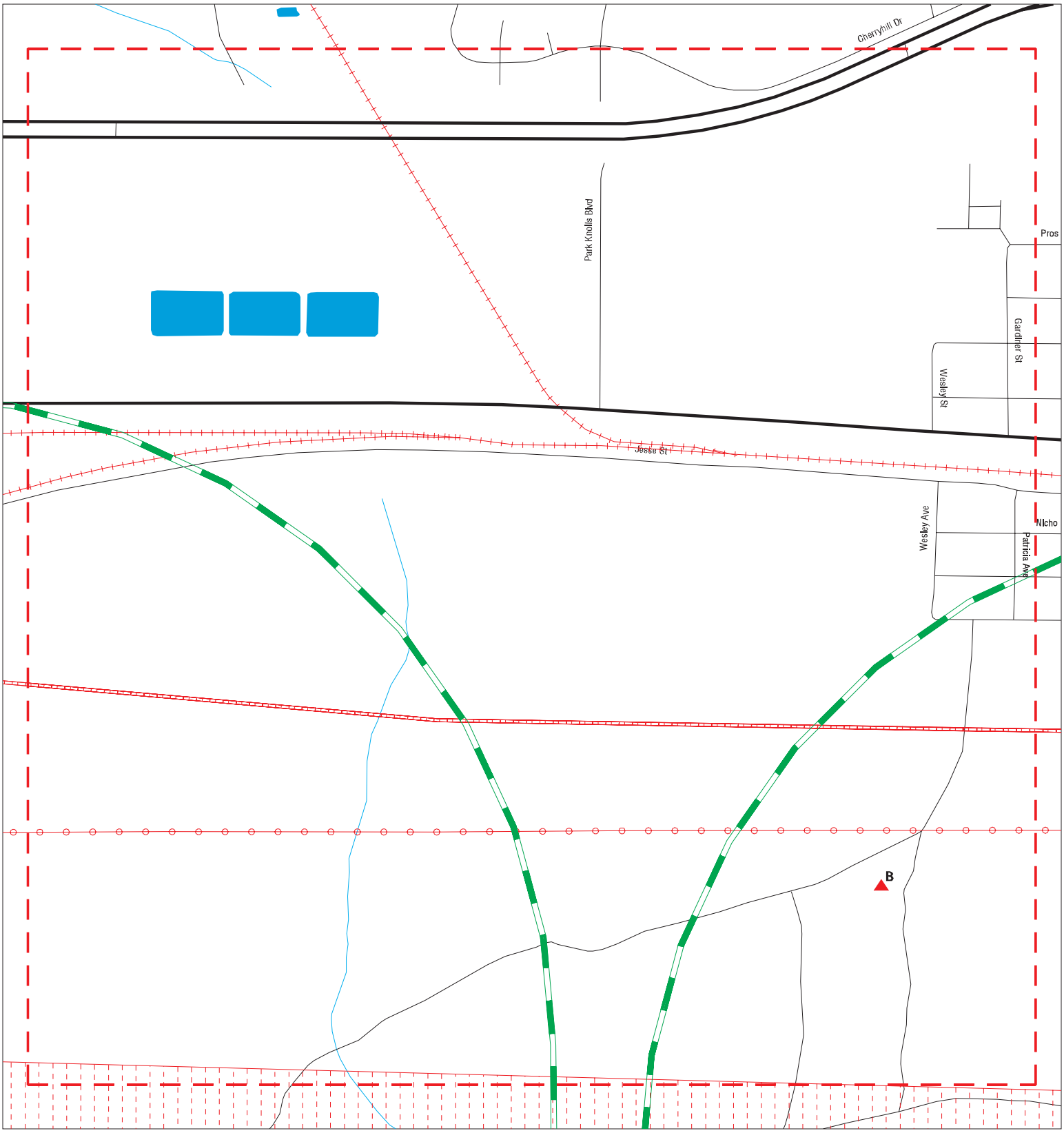
MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

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

NO MAPPED SITES FOUND

Focus Map - 2 - 6089723.2s



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: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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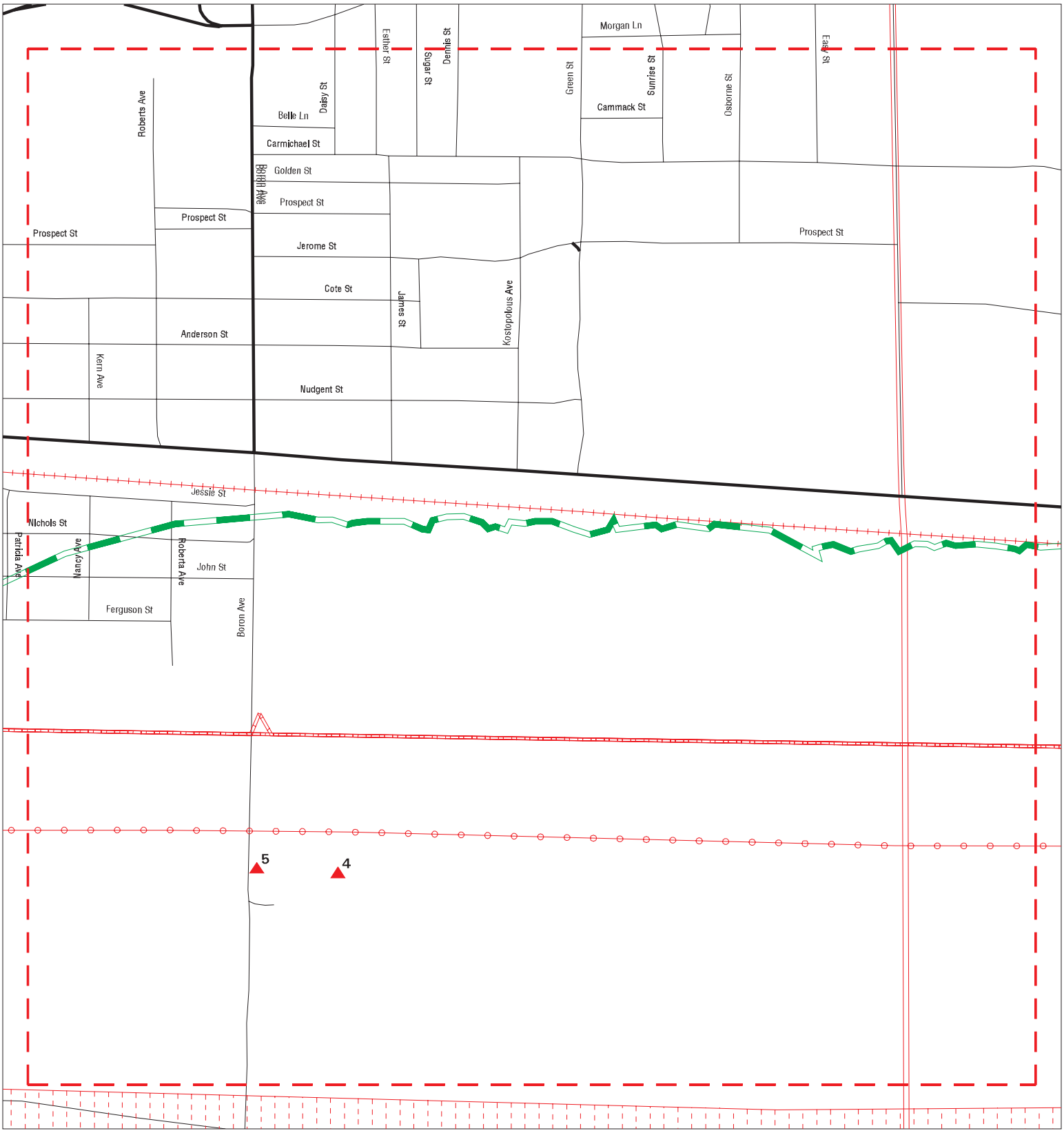
MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP
B8 / 2	OFF BASE ADJACENT AR		UXO	4057 0.768 NW
B9 / 2	OFF BASE ADJACENT AR		UXO	4057 0.768 NW

Focus Map - 3 - 6089723.2s



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: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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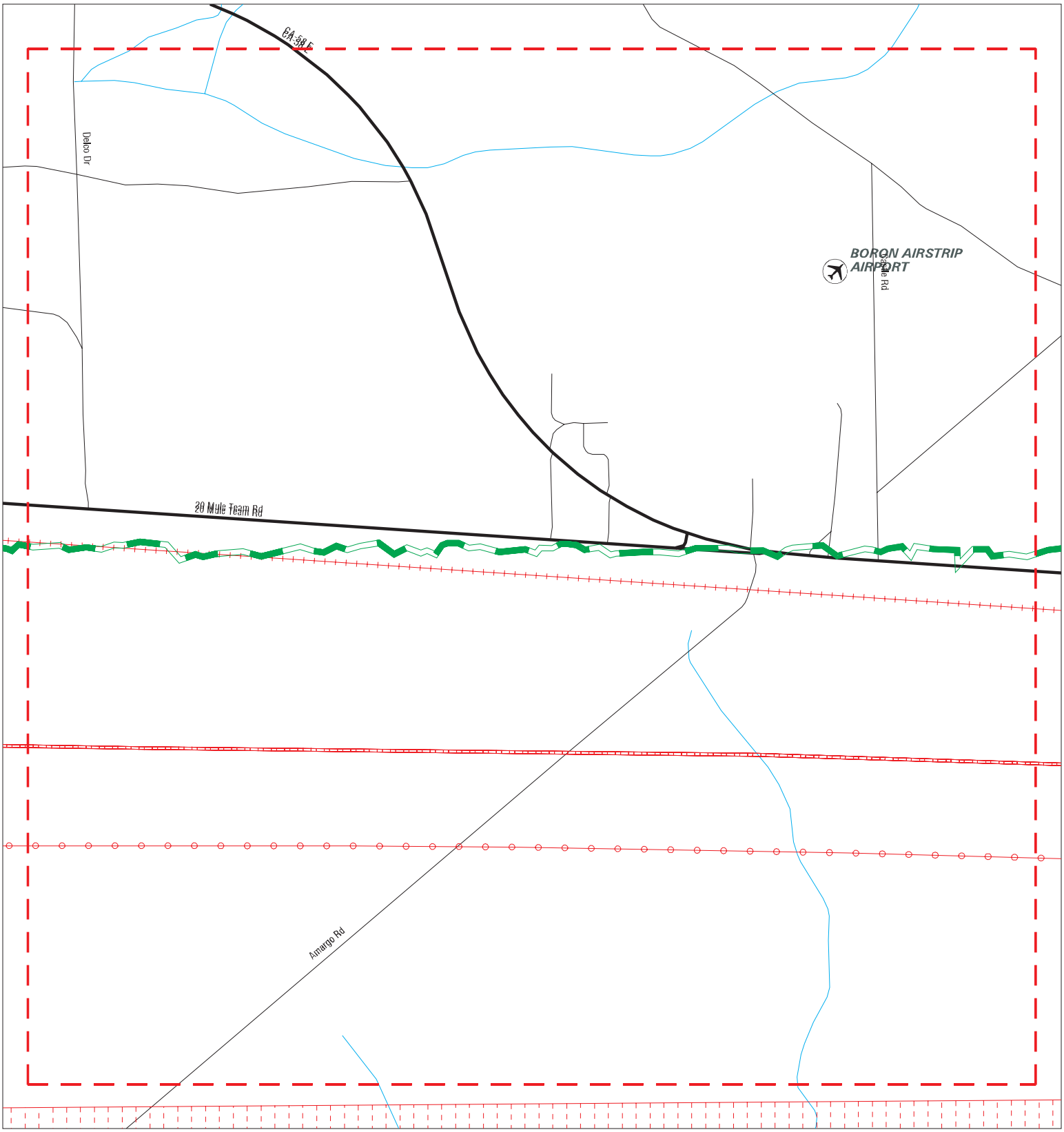
MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
4 / 3	BORON CLASS III LAND	5 MI SO OF BORON	WMUDS/SWAT, LDS, ENF, WDS, CIWQS, CERS	2408	0.456	North
5 / 3	KERN COUNTY PUBLIC W	11400 BORON AVENUE	SWF/LF, CERS HAZ WASTE, Financial Assura...	2445	0.463	North

Focus Map - 4 - 6089723.2s



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: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

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

NO MAPPED SITES FOUND

Focus Map - 5 - 6089723.2s

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: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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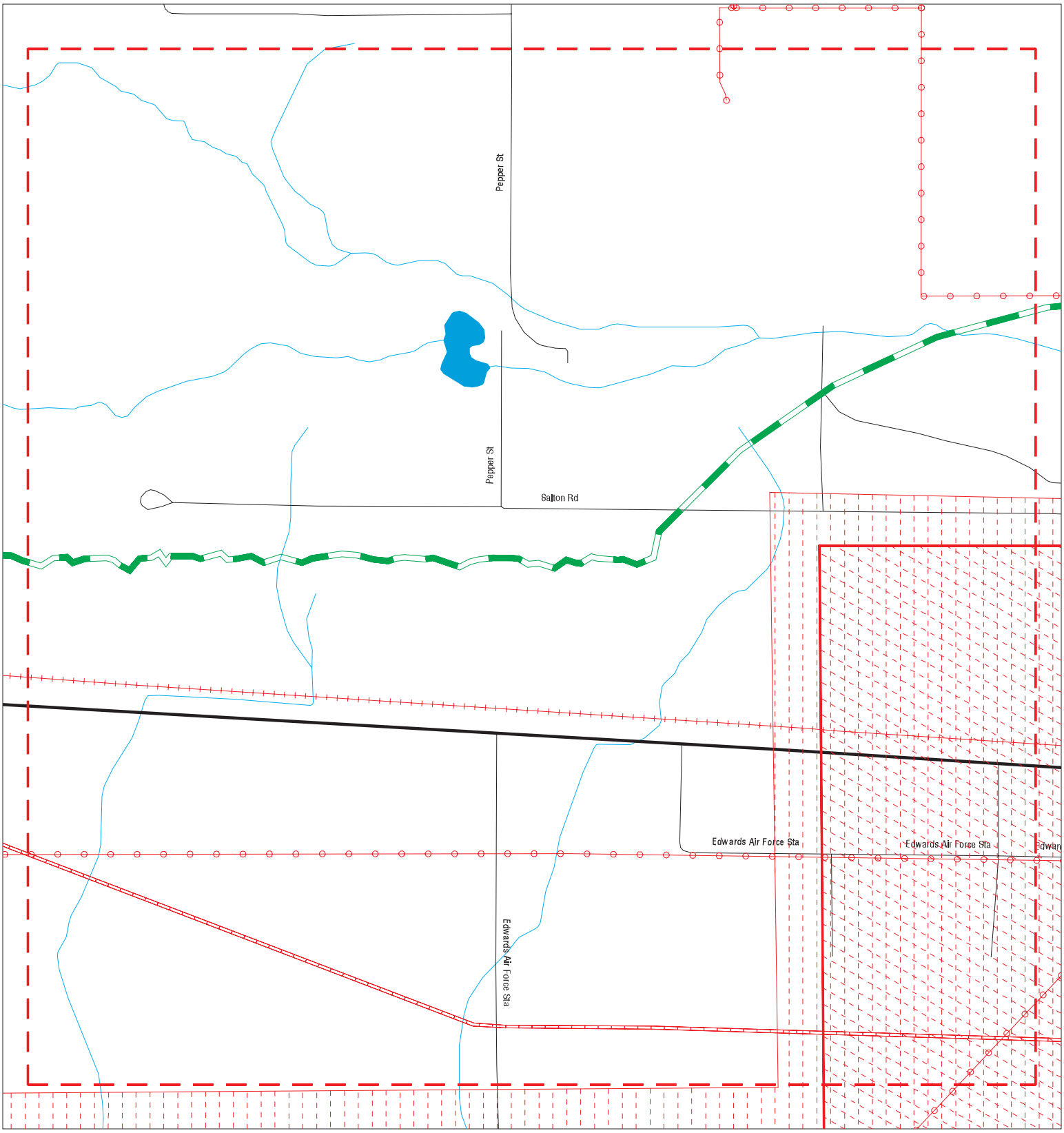
MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

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

NO MAPPED SITES FOUND

Focus Map - 6 - 6089723.2s



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

SITE NAME: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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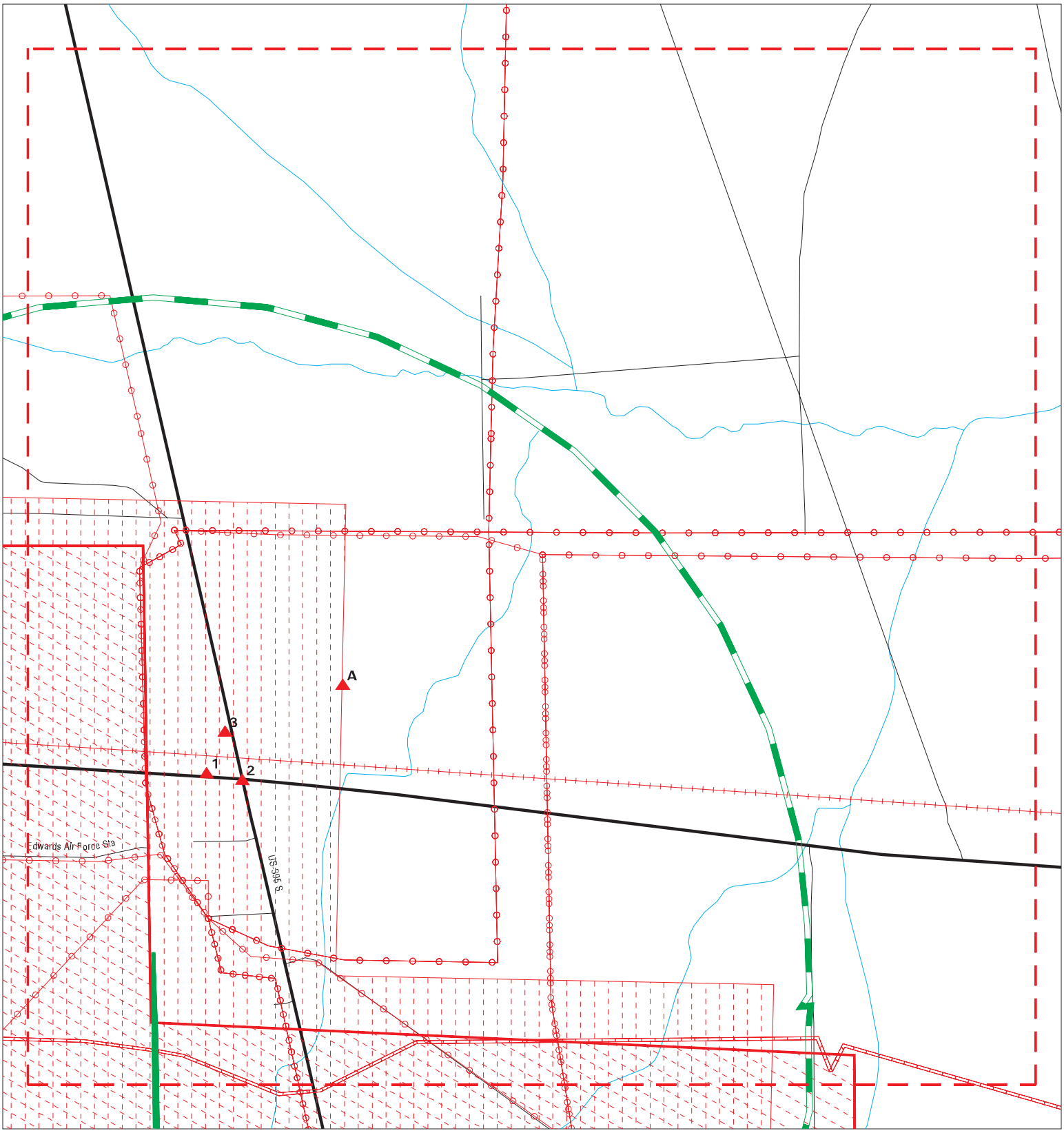
MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

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

Focus Map - 7 - 6089723.2s



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: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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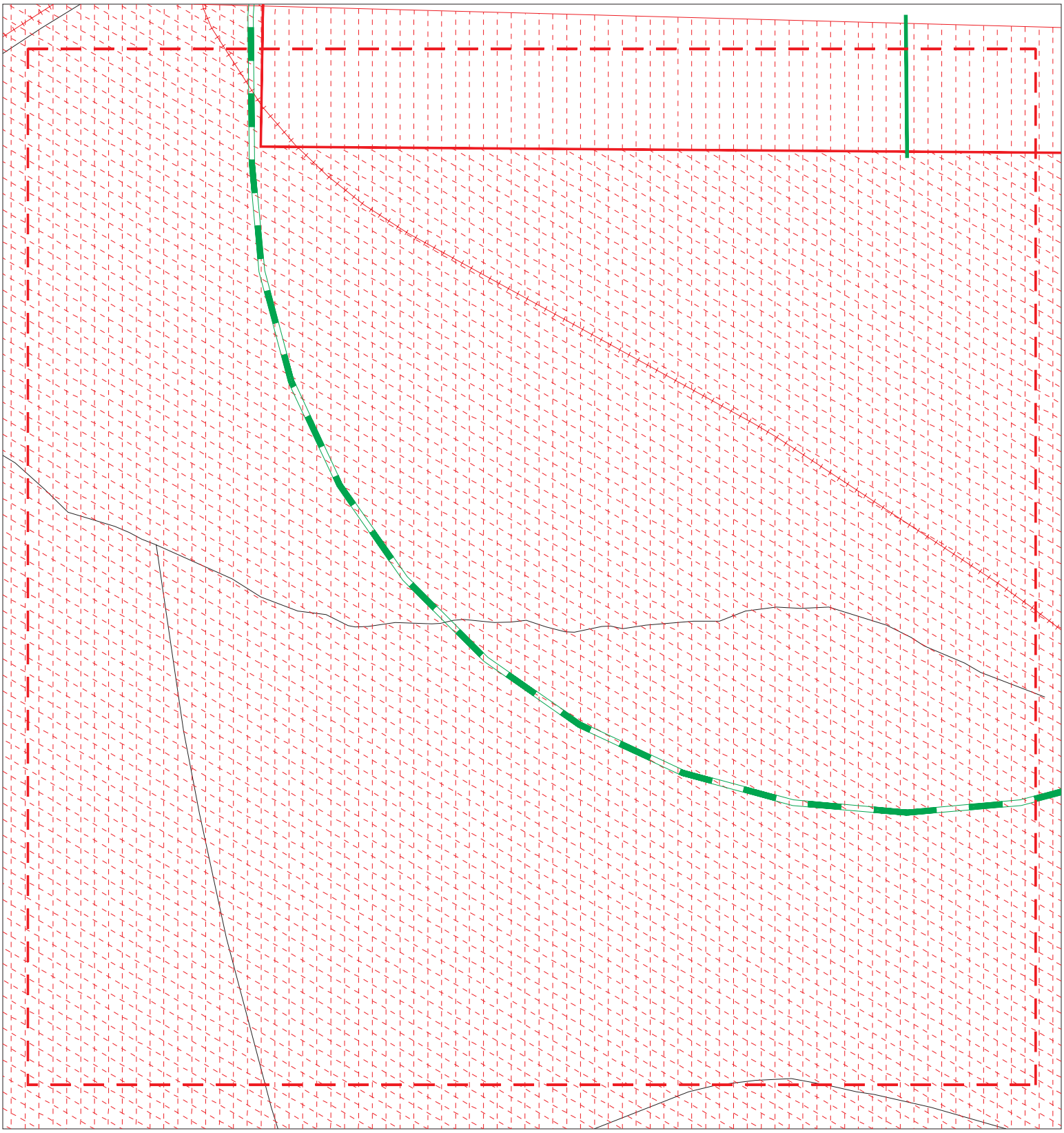
MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
Reg / Multiple	EDWARDS AIR FORCE BA		DOD	TP		
Reg / Multiple	EDWARDS AIR FORCE BA	5 EAST POPSON AVE BL	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-LQG,	TP		
1 / 7	FEDERAL PRISON CAMP	HWY 395	LUST, HIST UST, Cortese, HIST CORTESE	1514	0.287	NNE
2 / 7	FOUR CORNERS UNOCAL	HWY 395 & HWY 58	HIST CORTESE	1572	0.298	NNE
3 / 7	CALTRANS BEECHERS MA	40400 JCT US 395	SWF/LF, CERS	1878	0.356	NNE
A6 / 7	KRAMER POTASH PLANT		FUDS	2648	0.502	NE
A7 / 7	KRAMER POTASH PLANT		ENVIROSTOR	2662	0.504	NE

Focus Map - 8 - 6089723.2s



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:	64NB 8me, LLC, Aratina Gen-tie	CLIENT:	Stantec
ADDRESS:	64NB 8me, LLC, Aratina Gen-tie	CONTACT:	Dion Monge
CITY/STATE:	Boron CA	INQUIRY #:	6089723.2s
ZIP:	93516	DATE:	06/12/20

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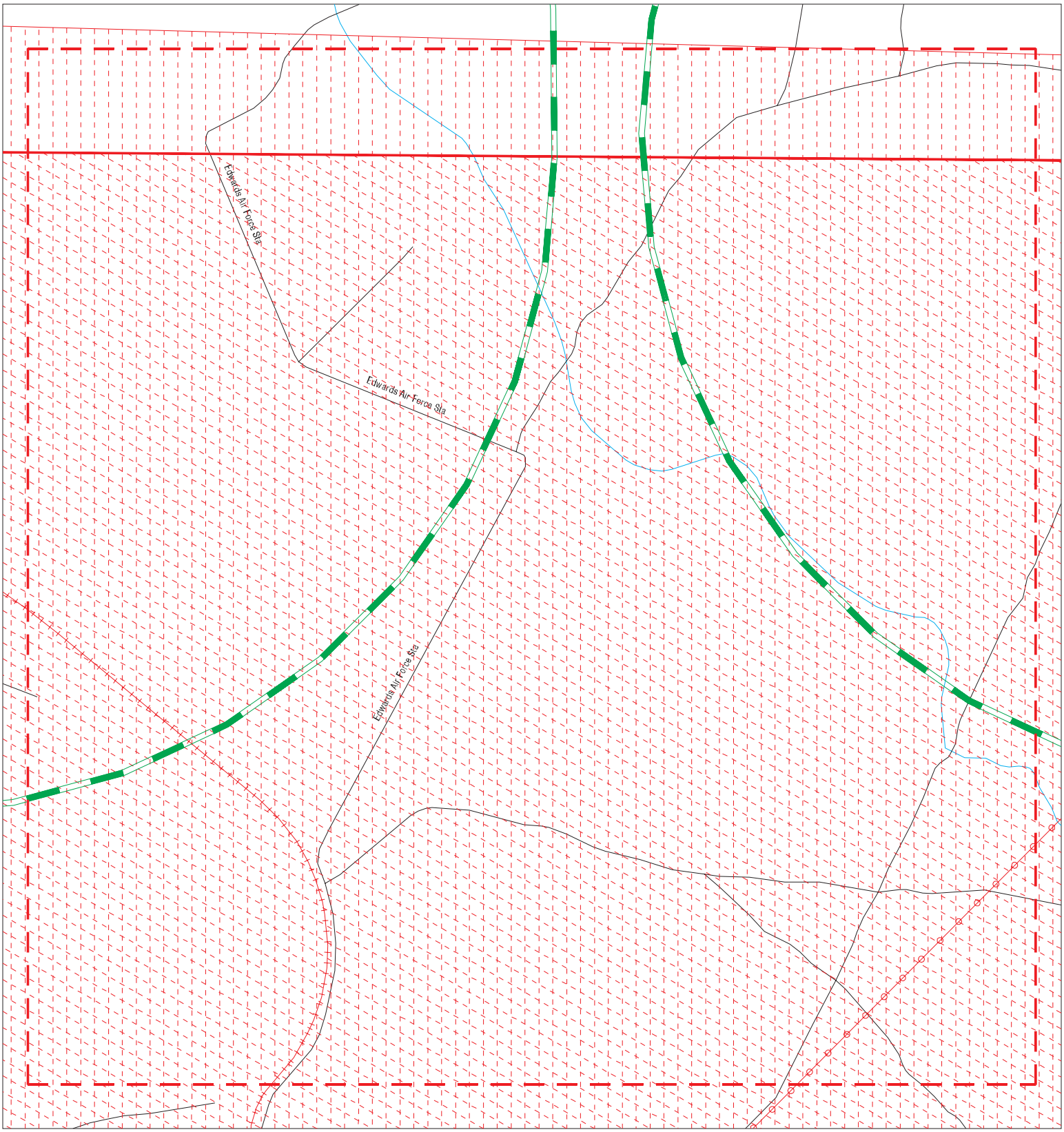
MAPPED SITES SUMMARY - FOCUS MAP 8

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

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

NO MAPPED SITES FOUND

Focus Map - 9 - 6089723.2s



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: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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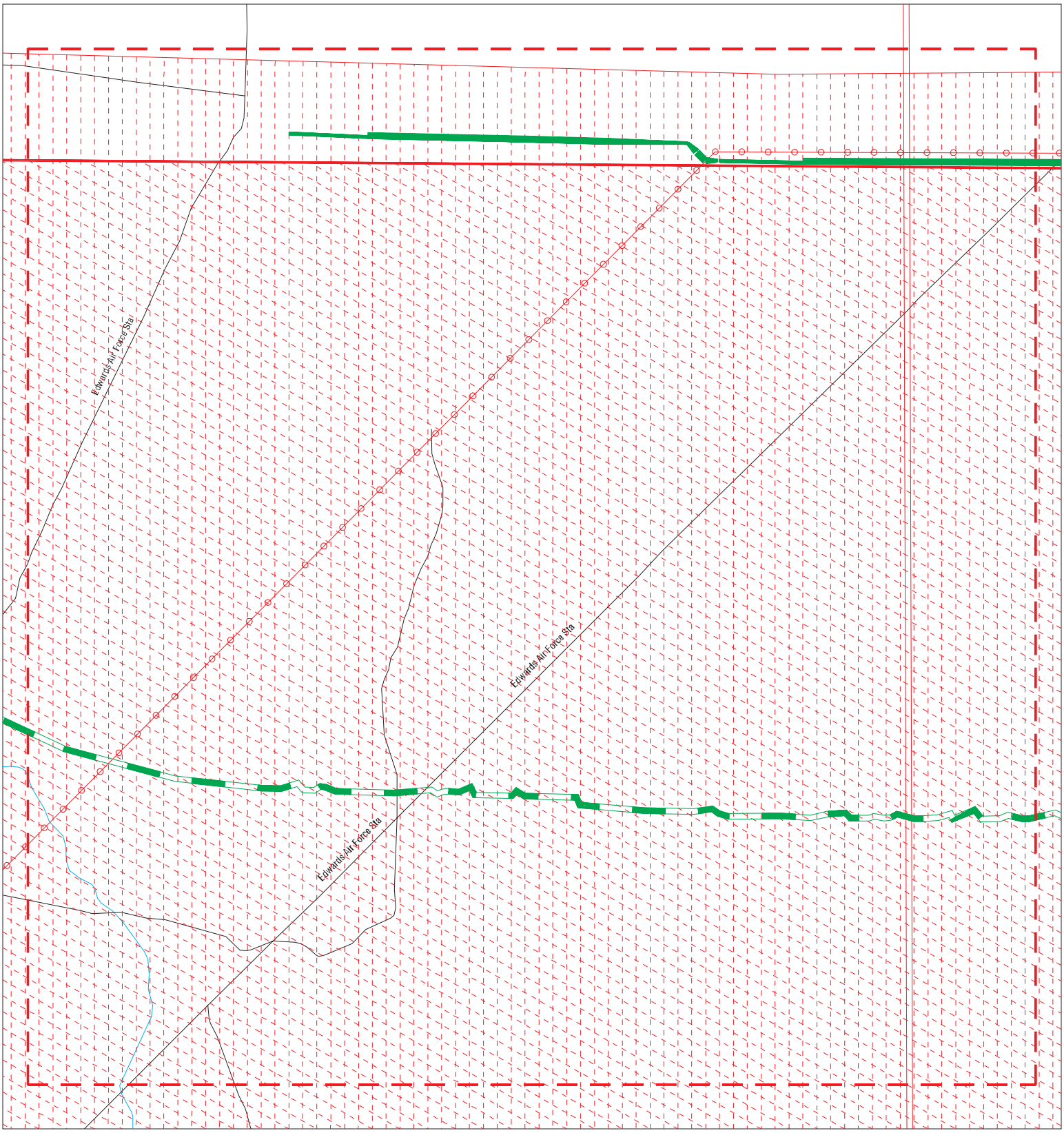
MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

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

Focus Map - 10 - 6089723.2s



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: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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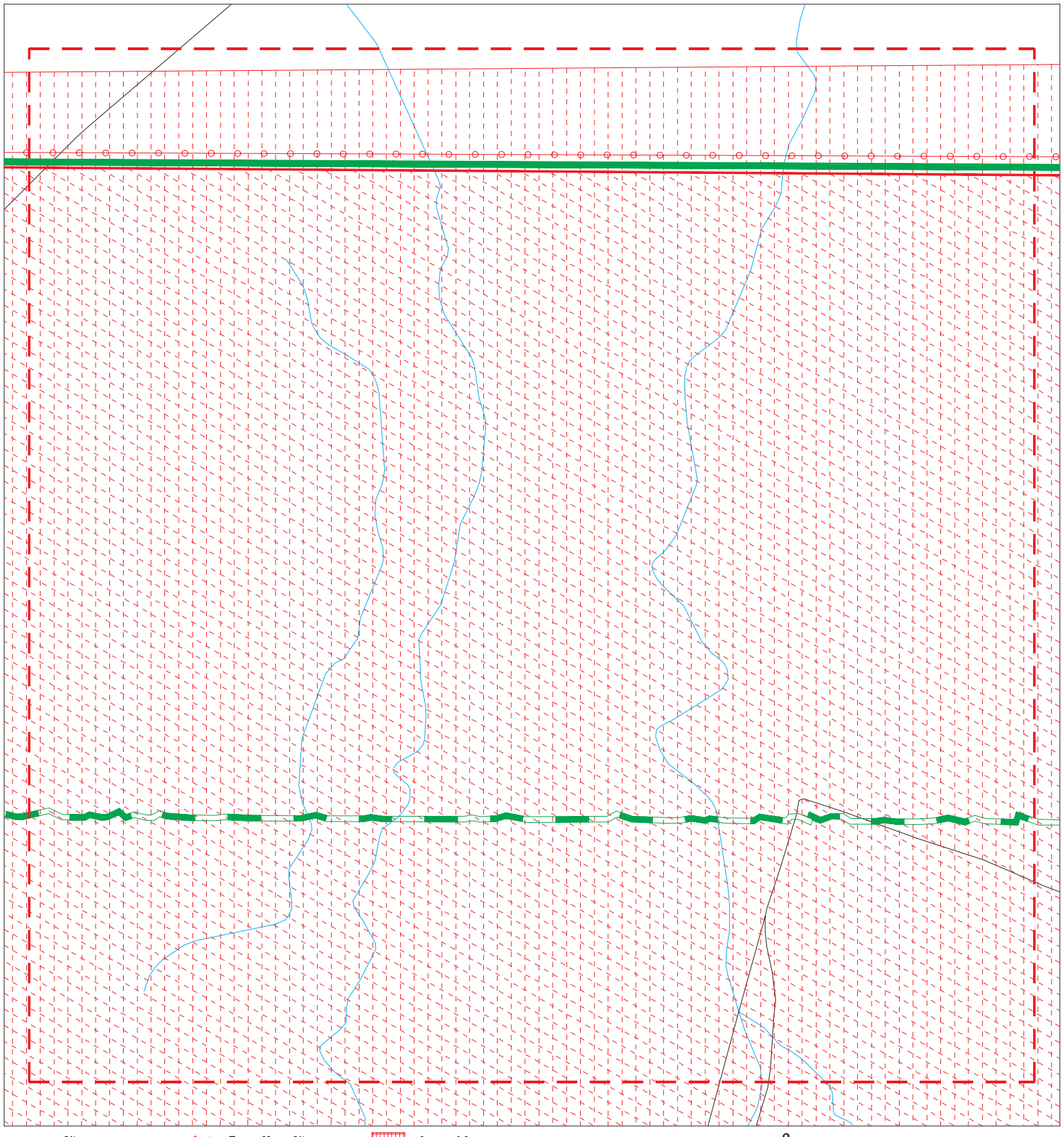
MAPPED SITES SUMMARY - FOCUS MAP 10

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

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

Focus Map - 11 - 6089723.2s



SITE NAME: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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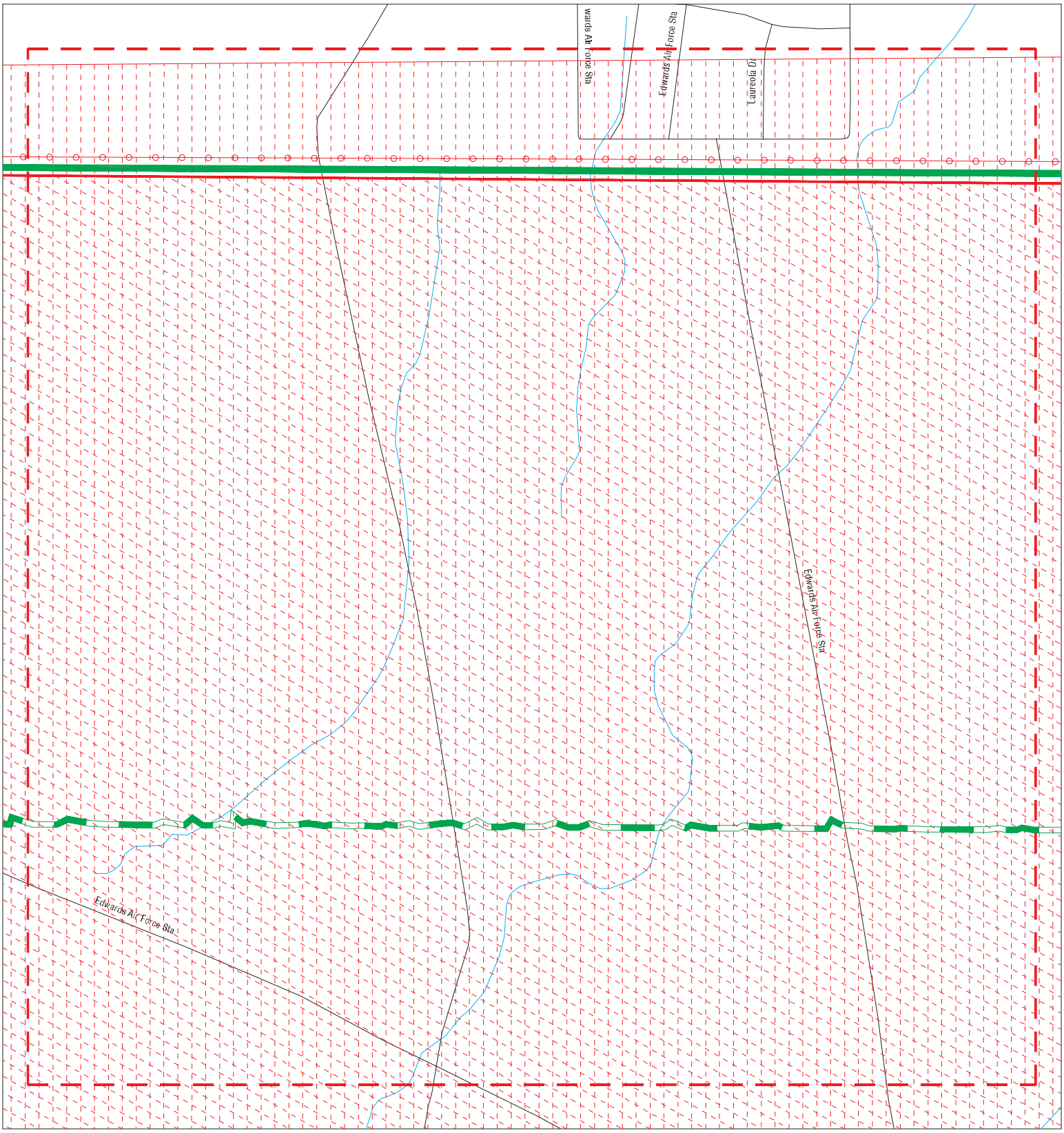
MAPPED SITES SUMMARY - FOCUS MAP 11

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

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

Focus Map - 12 - 6089723.2s



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: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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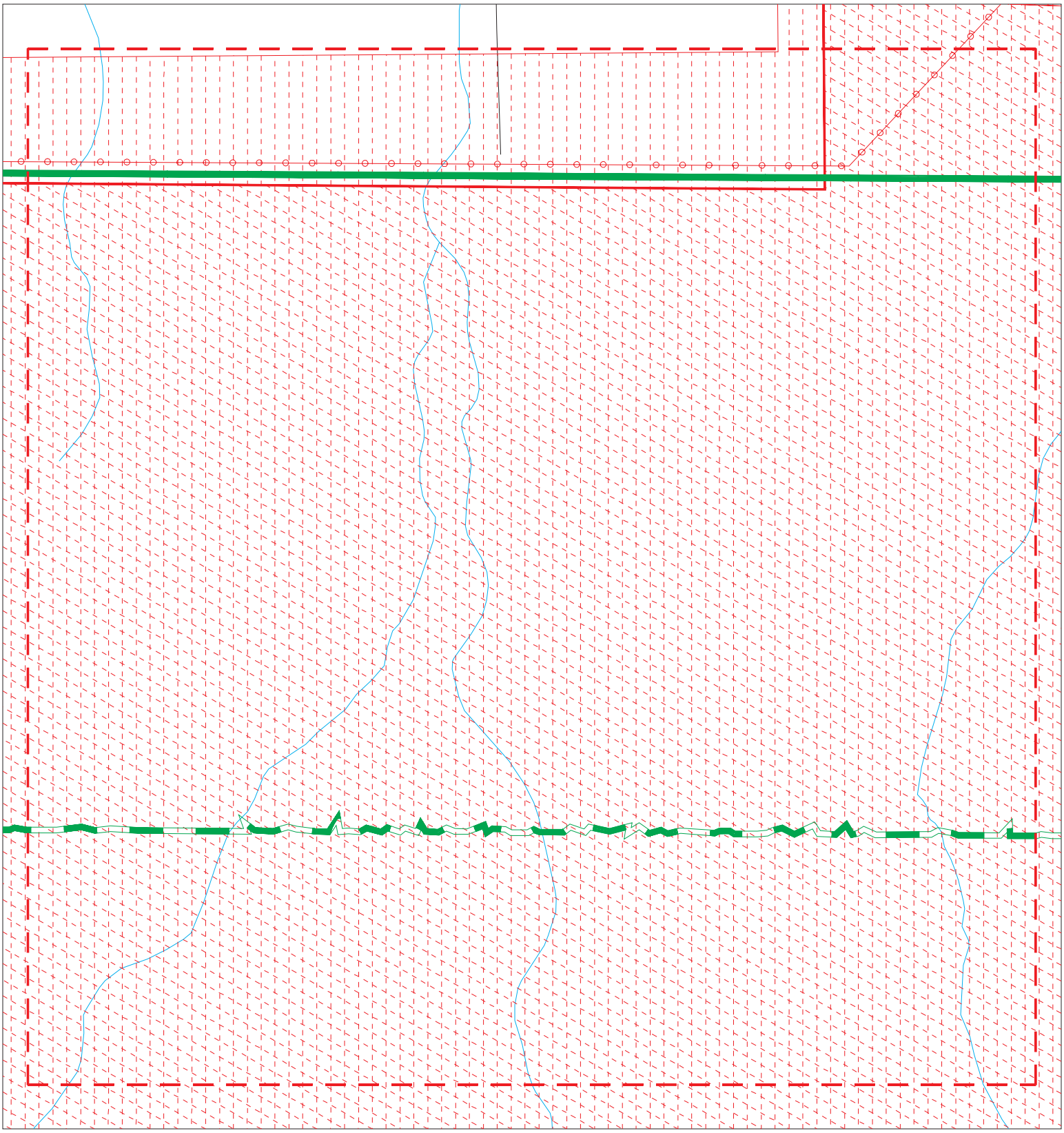
MAPPED SITES SUMMARY - FOCUS MAP 12

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

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

Focus Map - 13 - 6089723.2s



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: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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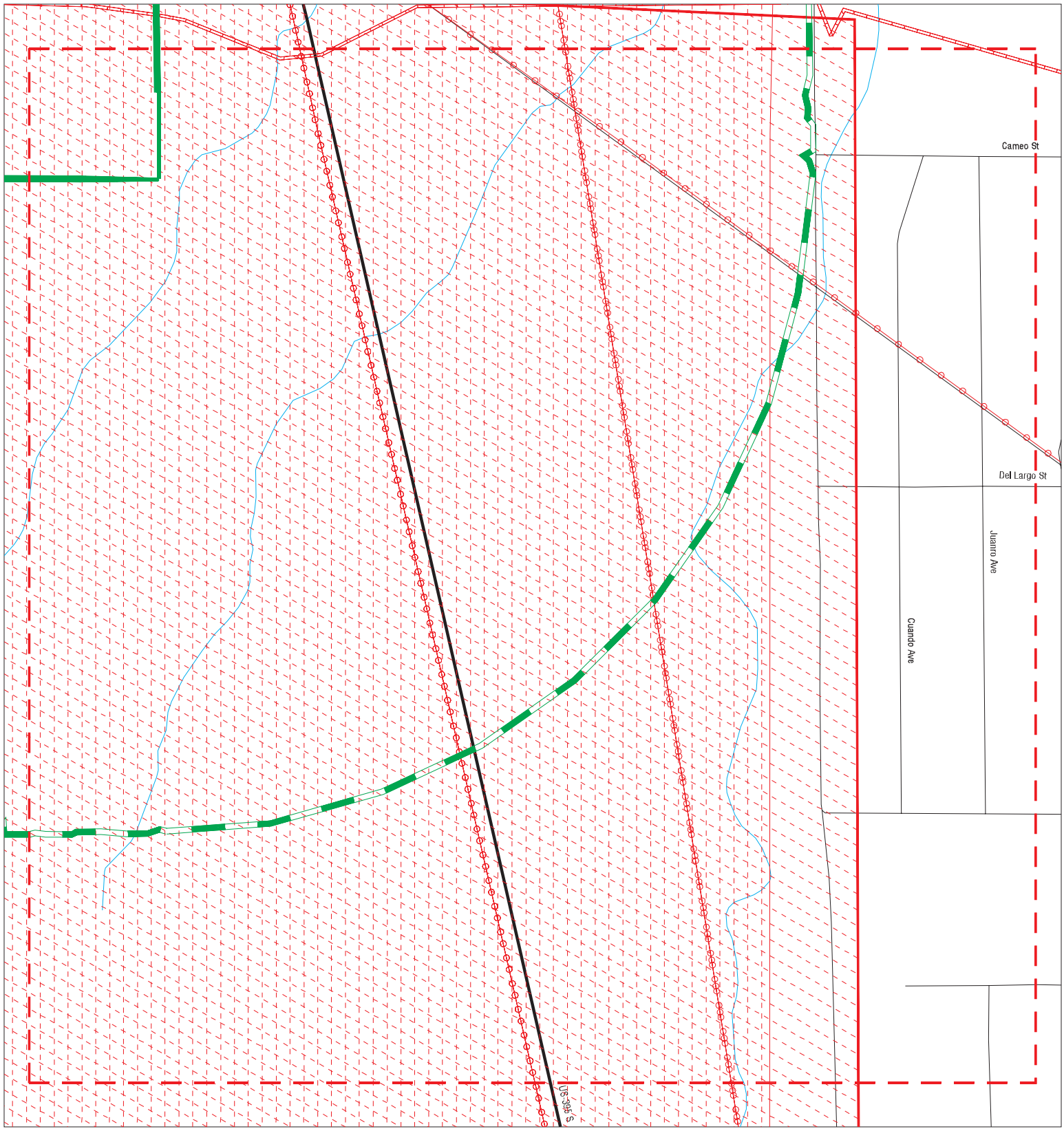
MAPPED SITES SUMMARY - FOCUS MAP 13

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

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

Focus Map - 14 - 6089723.2s



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: 64NB 8me, LLC, Aratina Gen-tie	CLIENT: Stantec
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie	CONTACT: Dion Monge
CITY/STATE: Boron CA	INQUIRY #: 6089723.2s
ZIP: 93516	DATE: 06/12/20

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MAPPED SITES SUMMARY - FOCUS MAP 14

Target Property:
64NB 8ME, LLC, ARATINA GEN-TIE
BORON, CA 93524

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

DOD **EDWARDS AIR FORCE BASE** **DOD** **CUSA140697**
Region **N/A**
Target Property **EDWARDS AIR FORCE BASE (County), CA**

Focus Map: 6,7,2,9,13,14,10,12,11

DOD:
Feature 1: Air Force DOD
Feature 2: Not reported
Feature 3: Not reported
2_R1: Not reported
Name 1: Edwards Air Force Base
Name 2: Not reported
Name 3: Not reported
State: CA
DOD Site: Yes
Tile name: CAKERN

NPL **EDWARDS AIR FORCE BASE** **NPL** **1000155217**
Region **5 EAST POPSON AVE BLDG 2650** **SEMS** **CA1570024504**
Target Property **EDWARDS AFB, CA 93524** **CORRACTS**
RCRA-TSDF
RCRA-LQG
US ENG CONTROLS
US INST CONTROLS
ENVIROSTOR
HIST Cal-Sites
DEED
ROD
RAATS
PRP
ICIS
US AIRS
DOCKET HWC
ICE
PFAS

Focus Map: 7,6,13,14,9,10,11,12

NPL:
Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
EPA Region: 9
Federal: Y
Final Date: 1990-08-30 00:00:00
Site ID: 902725
Latitude: 34.949438999999998
Site Score: 33.619999999999997
Longitude: -117.8857

NPL:
EPA ID: CA1570024504
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-> 100 Feet
Category Value: 110

EPA ID: CA1570024504
NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

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

NPL:
EPA ID: CA1570024504
Site ID: 0902725
Site Status: F
Federal Site: Y
EPA Region: 09
Date Proposed: 07/14/89
Date Deleted: Not reported
Date Finalized: 08/30/90

NPL:
EPA ID: CA1570024504
NPL Status: Currently on the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

EPA ID: CA1570024504
NPL Status: Currently on the Final NPL
Substance ID: A020
Substance: CHROMIUM AND COMPOUNDS
CAS #: Not reported
Pathway: GROUND WATER PATHWAY
Scoring: 4

EPA ID: CA1570024504
NPL Status: Currently on the Final NPL
Substance ID: D004
Substance: ARSENIC
CAS #: 7440-38-2
Pathway: GROUND WATER PATHWAY
Scoring: 3

EPA ID: CA1570024504
NPL Status: Currently on the Final NPL
Substance ID: U036
Substance: CHLORDANE
CAS #: 57-74-9
Pathway: GROUND WATER PATHWAY
Scoring: 3

EPA ID: CA1570024504
NPL Status: Currently on the Final NPL
Substance ID: U061
Substance: DDT
CAS #: 50-29-3
Pathway: GROUND WATER PATHWAY
Scoring: 3

EPA ID: CA1570024504
NPL Status: Currently on the Final NPL
Substance ID: U077
Substance: DICHLOROETHANE, 1,2-
CAS #: 107-06-2

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

Pathway: GROUND WATER PATHWAY
Scoring: 2

EPA ID: CA1570024504
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

EPA ID: CA1570024504
NPL Status: Currently on the Final NPL
Substance ID: U210
Substance: TETRACHLOROETHENE
CAS #: 127-18-4
Pathway: GROUND WATER PATHWAY
Scoring: 2

EPA ID: CA1570024504
NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL:
EPA ID: CA1570024504
Summary: 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 i

EPA ID: CA1570024504
Summary: n 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 De

EPA ID: CA1570024504
Summary: fense 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 p

EPA ID: CA1570024504
Summary: rimary 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 sanit

EPA ID: CA1570024504
Summary: ary 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- dichl

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

EPA ID: CA1570024504
Summary: oroethane, 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 Ba

EPA ID: CA1570024504
Summary: se 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 contaminat

EPA ID: CA1570024504
Summary: ion 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 F

EPA ID: CA1570024504
Summary: orce arenegotiating an Interagency Agreement under CERCLA Section 120 covering response activities at the base.

NPL:
EPA ID: CA1570024504
NPL Status: Final
Proposed Date: 07/14/1989
Final Date: 08/30/1990
Deleted Date: Not reported

NPL:
EPA ID: CA1570024504
NPL Name: EDWARDS AIR FORCE BASE

SEMS:
Site ID: 0902725
EPA ID: CA1570024504
Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
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
Site Name: EDWARDS AIR FORCE BASE
NPL: F
FF: Y

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

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
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:	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:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1984-04-01 05:00:00
Finish Date:	4/1/1984 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
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:	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

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:	9/30/2013 4:00:00 AM
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:	02
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	2004-09-29 04:00:00
Finish Date:	6/24/2009 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:	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

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:	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:	11
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	13
Start Date:	2004-01-31 05:00:00
Finish Date:	8/4/2008 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:	11
Action Code:	RO
Action Name:	ROD
SEQ:	12
Start Date:	2008-08-04 04:00:00
Finish Date:	8/4/2008 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:	11
Action Code:	LX
Action Name:	FF RD
SEQ:	12
Start Date:	2008-08-04 04:00:00
Finish Date:	9/28/2009 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:	11
Action Code:	LY
Action Name:	FF RA
SEQ:	12
Start Date:	2008-08-04 04:00:00
Finish Date:	7/27/2011 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
OU:	13
Action Code:	NI
Action Name:	FF FS
SEQ:	1
Start Date:	2007-07-03 04:00:00
Finish Date:	9/21/2012 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:	13
Action Code:	RO
Action Name:	ROD
SEQ:	15
Start Date:	2012-09-21 04:00:00
Finish Date:	9/21/2012 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:	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:	LX
Action Name:	FF RD
SEQ:	19
Start Date:	2009-06-24 04:00:00
Finish Date:	6/24/2009 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:	02
Action Code:	LY
Action Name:	FF RA
SEQ:	19
Start Date:	2009-06-24 04:00:00
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:	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:	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:	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:	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
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

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:	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:	05
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	5
Start Date:	2017-05-31 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:	OM
Action Name:	OM
SEQ:	5
Start Date:	2010-08-03 04:00:00
Finish Date:	Not reported
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:	15
Action Code:	LY
Action Name:	FF RA
SEQ:	4
Start Date:	2010-12-13 05:00:00
Finish Date:	5/12/2014 4:00:00 AM
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:	02
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	2009-06-24 04:00:00
Finish Date:	6/24/2009 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:	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:	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

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:	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
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:	15
Action Code:	OM
Action Name:	OM
SEQ:	6
Start Date:	2014-05-12 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:	03
Action Code:	LW
Action Name:	FF RI/FS

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

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: 04
Action Code: LX
Action Name: FF RD
SEQ: 3
Start Date: 2007-09-24 04:00:00
Finish Date: 6/12/2009 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: 02
Action Code: LX
Action Name: FF RD
SEQ: 1
Start Date: 2009-06-24 04:00:00
Finish Date: 10/31/2013 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: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: 1980-08-01 04:00:00
Finish Date: 4/1/1984 5:00:00 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

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

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: 10
Action Code: LW
Action Name: FF RI/FS
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: 02
Action Code: LY
Action Name: FF RA
SEQ: 22
Start Date: 2020-03-04 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: 11
Action Code: OM
Action Name: OM
SEQ: 8
Start Date: 2011-07-27 04:00:00
Finish Date: Not reported
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:	14
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	15
Start Date:	2018-01-25 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:	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:	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:	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

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: 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: 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: 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: 17
Action Code: LW
Action Name: FF RI/FS
SEQ: 18
Start Date: 2005-08-12 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:	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
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:	2008-02-15 05:00:00
Finish Date:	8/31/2010 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:	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

CORRACTS:

Region:	09
Name:	EDWARDS AIR FORCE BASE
Address:	446 N. ROSAMOND BLVD BLDG 4916
Address 2:	Not reported
City,State,Zip:	EDWARDS, CA 93524-1130
EPA ID:	CA1570024504
Area Name:	ENTIRE FACILITY

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

Corrective Action:	CA050
Actual Date:	1993-09-01 00:00:00.0
NAICS Code 1:	928110
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported
Region:	09
Name:	EDWARDS AIR FORCE BASE
Address:	446 N. ROSAMOND BLVD BLDG 4916
Address 2:	Not reported
City,State,Zip:	EDWARDS, CA 93524-1130
EPA ID:	CA1570024504
Area Name:	ENTIRE FACILITY
Corrective Action:	CA070YE
Actual Date:	1993-09-01 00:00:00.0
NAICS Code 1:	928110
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported
Region:	09
Name:	EDWARDS AIR FORCE BASE
Address:	446 N. ROSAMOND BLVD BLDG 4916
Address 2:	Not reported
City,State,Zip:	EDWARDS, CA 93524-1130
EPA ID:	CA1570024504
Area Name:	OU #1
Corrective Action:	CA100
Actual Date:	1990-09-24 00:00:00.0
NAICS Code 1:	928110
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported
Region:	09
Name:	EDWARDS AIR FORCE BASE
Address:	446 N. ROSAMOND BLVD BLDG 4916
Address 2:	Not reported
City,State,Zip:	EDWARDS, CA 93524-1130
EPA ID:	CA1570024504
Area Name:	OU #1
Corrective Action:	CA200
Actual Date:	1996-04-01 00:00:00.0
NAICS Code 1:	928110
NAICS Code 2:	Not reported
NAICS Code 3:	Not reported
NAICS Code 4:	Not reported
Region:	09
Name:	EDWARDS AIR FORCE BASE
Address:	446 N. ROSAMOND BLVD BLDG 4916
Address 2:	Not reported
City,State,Zip:	EDWARDS, CA 93524-1130
EPA ID:	CA1570024504
Area Name:	OU #1
Corrective Action:	CA600GW

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

Actual Date: 1990-09-24 00:00:00.0
NAICS Code 1: 928110
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: EDWARDS AIR FORCE BASE
Address: 446 N. ROSAMOND BLVD BLDG 4916
Address 2: Not reported
City,State,Zip: EDWARDS, CA 93524-1130
EPA ID: CA1570024504
Area Name: OU #1
Corrective Action: CA600SR
Actual Date: 1990-09-24 00:00:00.0
NAICS Code 1: 928110
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: EDWARDS AIR FORCE BASE
Address: 446 N. ROSAMOND BLVD BLDG 4916
Address 2: Not reported
City,State,Zip: EDWARDS, CA 93524-1130
EPA ID: CA1570024504
Area Name: OU #1
Corrective Action: CA650
Actual Date: 1997-12-01 00:00:00.0
NAICS Code 1: 928110
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: EDWARDS AIR FORCE BASE
Address: 446 N. ROSAMOND BLVD BLDG 4916
Address 2: Not reported
City,State,Zip: EDWARDS, CA 93524-1130
EPA ID: CA1570024504
Area Name: ENTIRE FACILITY
Corrective Action: CA725IN
Actual Date: 2000-05-22 00:00:00.0
NAICS Code 1: 928110
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: EDWARDS AIR FORCE BASE
Address: 446 N. ROSAMOND BLVD BLDG 4916
Address 2: Not reported
City,State,Zip: EDWARDS, CA 93524-1130
EPA ID: CA1570024504
Area Name: ENTIRE FACILITY
Corrective Action: CA725NO
Actual Date: 1998-04-06 00:00:00.0

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

NAICS Code 1: 928110
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: EDWARDS AIR FORCE BASE
Address: 446 N. ROSAMOND BLVD BLDG 4916
Address 2: Not reported
City,State,Zip: EDWARDS, CA 93524-1130
EPA ID: CA1570024504
Area Name: ENTIRE FACILITY
Corrective Action: CA725YE
Actual Date: 2004-08-03 00:00:00.0
NAICS Code 1: 928110
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: EDWARDS AIR FORCE BASE
Address: 446 N. ROSAMOND BLVD BLDG 4916
Address 2: Not reported
City,State,Zip: EDWARDS, CA 93524-1130
EPA ID: CA1570024504
Area Name: ENTIRE FACILITY
Corrective Action: CA750IN
Actual Date: 2000-05-22 00:00:00.0
NAICS Code 1: 928110
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

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3 additional CORRACTS: record(s) in the EDR Site Report.

RCRA-TSDF:
Date form received by agency: 2018-10-19 00:00:00.0
Facility name: EDWARDS AIR FORCE BASE
Facility address: 446 N. ROSAMOND BLVD BLDG 4916
EDWARDS, CA 93524-1130
EPA ID: CA1570024504
Mailing address: NORTH ROSAMOND BLVD, STE A
BLDG 3735
EDWARDS, CA 93524
Contact: D MALAMA CHOCK
Contact address: NORTH ROSAMOND BLVD, STE A BLDG 3735
EDWARDS, CA 93524
Contact country: US
Contact telephone: 661-277-3454
Contact email: D_MALAMA.CHOCK@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

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

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 AIR FORCE BASE
Owner/operator address:	N. ROSAMOND BLVD BLDG 4916 EDWARDS, CA 93524
Owner/operator country:	US
Owner/operator telephone:	661-277-3454
Owner/operator email:	D_MALAMA.CHOCK@US.AF.MIL
Owner/operator fax:	661-277-1460
Owner/operator extension:	Not reported
Legal status:	Federal
Owner/Operator Type:	Operator
Owner/Op start date:	1950-01-01 00:00:00.
Owner/Op end date:	Not reported

Owner/operator name:	EDWARDS AIR FORCE BASE
Owner/operator address:	NORTH ROSAMOND BLVD, STE A BLDG 3735 EDWARDS, CA 93524
Owner/operator country:	US
Owner/operator telephone:	661-277-3454
Owner/operator email:	D_MALAMA.CHOCK@US.AF.MIL
Owner/operator fax:	661-277-1460
Owner/operator extension:	Not reported
Legal status:	Federal
Owner/Operator Type:	Owner
Owner/Op start date:	1950-01-01 00:00:00.
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:	Yes
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

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

Universal Waste Summary:
Waste type: C
Accumulated waste on-site: No
Generated waste on-site: Yes

Waste type: Batteries
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 type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

Waste type: E
Accumulated waste on-site: No
Generated waste on-site: Yes

Historical Generators:
Date form received by agency: 2016-02-29 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2014-03-01 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2012-09-11 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2010-07-13 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2008-02-29 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2006-02-15 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2004-02-26 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2002-03-29 00:00:00.0
Site name: EDWARDS AIRFORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2000-10-12 00:00:00.0
Site name: EDWARDS AIR FORCE BASE

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

Classification: Large Quantity Generator

Date form received by agency: 1999-03-04 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 1998-02-02 00:00:00.0
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 1996-09-01 00:00:00.0
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 1996-03-27 00:00:00.0
Site name: USAF EDWARDS
Classification: Large Quantity Generator

Date form received by agency: 1994-03-29 00:00:00.0
Site name: USAF FLIGHT TEST CTR EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 1992-04-25 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 1990-04-27 00:00:00.0
Site name: EDWARDS AFB/ EXPLOSIVE ORDINACE
Classification: Large Quantity Generator

Date form received by agency: 1980-08-18 00:00:00.0
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 1980-08-18 00:00:00.0
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Hazardous Waste Summary:

. 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

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: 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

. 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

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

. 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

. 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

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

. 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: 614
. Waste name: Treated wood 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

. Waste code: 728
. Waste name: Liquids with thallium > 130 mg/l

. Waste code: 731
. Waste name: Liquids with polychlorinated biphenyls > 50 mg/l

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

. 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 WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. 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: D012
. Waste name: ENDRIN
(1,2,3,4,10,10-HEXACHLORO-1,7-EPOXY-1,4,4A,5,6,7,8,8A-OCTAHYDRO-1,4-ENDO, ENDO-5,8-DIMETH-ANO-NAPHTHALENE)

. Waste code: D013
. Waste name: LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)

. Waste code: D014

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

. Waste name: METHOXYCHLOR (1,1,1-TRICHLORO-2,2-BIS [P-METHOXYPHENYL] ETHANE)

. Waste code: D015
. Waste name: TOXAPHENE (C10 H10 CL8, TECHNICAL CHLORINATED CAMPHENE, 67-69 PERCENT CHLORINE)

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D017
. Waste name: 2,4,5-TP SILVEX (2,4,5-TRICHLOROPHENOXYPROPIONIC ACID)

. 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

. Waste code: D031
. Waste name: HEPTACHLOR (AND ITS EPOXIDE)

. Waste code: D032
. Waste name: HEXACHLOROBENZENE

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

. 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: PENTACHLOROPHENOL

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. 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, TRICHLORETHYLENE, 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 SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

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

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED 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 NONHALOGENATED 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: 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 SYNTHESIZED 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% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P003
. Waste name: 2-PROPENAL (OR) ACROLEIN

. Waste code: P005
. Waste name: 2-PROPEN-1-OL (OR) ALLYL ALCOHOL

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

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

. Waste code: P014
. Waste name: BENZENETHIOL (OR) THIOPHENOL

. Waste code: P027
. Waste name: 3-CHLOROPROPIONITRILE (OR) PROPANENITRILE, 3-CHLORO-

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P031
. Waste name: CYANOGEN (OR) ETHANEDINITRILE

. Waste code: P033
. Waste name: CYANOGEN CHLORIDE (OR) CYANOGEN CHLORIDE (CN)CL

. Waste code: P037
. 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, 2AALPHA, 3BETA, 6BETA, 6AALPHA, 7BETA, 7AALPHA)- (OR) DIELDRIN

. Waste code: P047
. Waste name: 4,6-DINITRO-O-CRESOL, & SALTS (OR) PHENOL, 2-METHYL-4,6-DINITRO-, & SALTS

. Waste code: P048
. Waste name: 2,4-DINITROPHENOL (OR) PHENOL, 2,4-DINITRO-

. Waste code: P050
. Waste name: 6,9-METHANO-2,4,3-BENZODIOXATHIEPIN,6,7,8,9,10,10-HEXACHLORO-1,5,5A,6,9,9A-HEXAHYDRO-,3-OXIDE (OR) 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 (OR) ENDRIN (OR) ENDRIN, & METABOLITES

. Waste code: P056
. Waste name: FLUORINE

. Waste code: P059
. Waste name: 4,7-METHANO-1H-INDENE, 1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO- (OR) HEPTACHLOR

. Waste code: P063
. Waste name: HYDROCYANIC ACID (OR) HYDROGEN CYANIDE

. Waste code: P068
. Waste name: HYDRAZINE, METHYL- (OR) METHYL HYDRAZINE

. Waste code: P073

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

. Waste name: NICKEL CARBONYL (OR) NICKEL CARBONYL NI(CO)4, (T-4)-

. Waste code: P077
. Waste name: BENZENAMINE, 4-NITRO- (OR) P-NITROANILINE

. Waste code: P078
. Waste name: NITROGEN DIOXIDE (OR) NITROGEN OXIDE NO2

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U001
. Waste name: ACETALDEHYDE (I) (OR) ETHANAL (I)

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U004
. Waste name: ACETOPHENONE (OR) ETHANONE, 1-PHENYL-

. Waste code: U007
. Waste name: 2-PROPENAMIDE (OR) ACRYLAMIDE

. Waste code: U008
. Waste name: 2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)

. Waste code: U009
. Waste name: 2-PROPENENITRILE (OR) ACRYLONITRILE

. Waste code: U012
. Waste name: ANILINE (I,T) (OR) BENZENAMINE (I,T)

. Waste code: U019
. Waste name: BENZENE (I,T)

. Waste code: U029
. Waste name: METHANE, BROMO- (OR) METHYL BROMIDE

. Waste code: U031
. Waste name: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U037
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE

. Waste code: U041

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

. Waste name: EPICHLOROHYDRIN (OR) OXIRANE, (CHLOROMETHYL)-

. Waste code: U042
. Waste name: 2-CHLOROETHYL VINYL ETHER (OR) ETHENE, (2-CHLOROETHOXY)-

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U045
. Waste name: METHANE, CHLORO- (I,T) (OR) METHYL CHLORIDE (I,T)

. Waste code: U048
. Waste name: O-CHLOROPHENOL (OR) PHENOL, 2-CHLORO-

. Waste code: U053
. Waste name: 2-BUTENAL (OR) CROTONALDEHYDE

. Waste code: U056
. Waste name: BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)

. Waste code: U057
. Waste name: CYCLOHEXANONE (I)

. Waste code: U060
. Waste name: BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDD

. Waste code: U061
. Waste name: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDT

. Waste code: U066
. Waste name: 1,2-DIBROMO-3-CHLOROPROPANE (OR) PROPANE, 1,2-DIBROMO-3-CHLORO-

. Waste code: U067
. Waste name: ETHANE, 1,2-DIBROMO- (OR) ETHYLENE DIBROMIDE

. Waste code: U068
. Waste name: METHANE, DIBROMO- (OR) METHYLENE BROMIDE

. Waste code: U069
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

. Waste code: U071
. Waste name: BENZENE, 1,3-DICHLORO- (OR) M-DICHLOROBENZENE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U074
. Waste name: 1,4-DICHLORO-2-BUTENE (I,T) (OR) 2-BUTENE, 1,4-DICHLORO- (I,T)

. Waste code: U076
. Waste name: ETHANE, 1,1-DICHLORO- (OR) ETHYLIDENE DICHLORIDE

. Waste code: U077

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

. Waste name: ETHANE, 1,2-DICHLORO- (OR) ETHYLENE DICHLORIDE

. Waste code: U078
. Waste name: 1,1-DICHLOROETHYLENE (OR) ETHENE, 1,1-DICHLORO-

. Waste code: U080
. Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

. Waste code: U081
. Waste name: 2,4-DICHLOROPHENOL (OR) PHENOL, 2,4-DICHLORO-

. Waste code: U084
. Waste name: 1,3-DICHLOROPROPENE (OR) 1-PROPENE, 1,3-DICHLORO-

. Waste code: U085
. Waste name: 1,2:3,4-DIEPOXYBUTANE (I,T) (OR) 2,2'-BIOXIRANE

. Waste code: U098
. Waste name: 1,1-DIMETHYLHYDRAZINE (OR) HYDRAZINE, 1,1-DIMETHYL-

. Waste code: U101
. Waste name: 2,4-DIMETHYLPHENOL (OR) PHENOL, 2,4-DIMETHYL-

. Waste code: U103
. Waste name: DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER

. Waste code: U108
. Waste name: 1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE

. Waste code: U112
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

. Waste code: U121
. Waste name: METHANE, TRICHLOROFLUORO- (OR) TRICHLOROMONOFLUOROMETHANE

. 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- (OR) HEXACHLOROBUTADIENE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U131
. Waste name: ETHANE, HEXACHLORO- (OR) HEXACHLOROETHANE

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

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

. Waste code: U135
. Waste name: HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S

. Waste code: U138
. Waste name: METHANE, IODO- (OR) METHYL IODIDE

. Waste code: U140
. Waste name: 1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

. Waste code: U147
. Waste name: 2,5-FURANDIONE (OR) MALEIC ANHYDRIDE

. Waste code: U149
. Waste name: MALONONITRILE (OR) PROPANEDINITRILE

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U151
. Waste name: MERCURY

. Waste code: U152
. Waste name: 2-PROPENENITRILE, 2-METHYL- (I,T) (OR) METHACRYLONITRILE (I,T)

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

. Waste code: U161
. Waste name: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-

. Waste code: U162
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U170
. Waste name: P-NITROPHENOL (I,T) (OR) PHENOL, 4-NITRO-

. Waste code: U171
. Waste name: 2-NITROPROPANE (I,T) (OR) PROPANE, 2-NITRO- (I,T)

. Waste code: U172
. Waste name: 1-BUTANAMINE, N-BUTYL-N-NITROSO- (OR) N-NITROSODI-N-BUTYLAMINE

. Waste code: U182

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

. Waste name: 1,3,5-TRIOXANE, 2,4,6-TRIMETHYL- (OR) PARALDEHYDE

. Waste code: U184
. Waste name: ETHANE, PENTACHLORO- (OR) PENTACHLOROETHANE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U194
. Waste name: 1-PROPANAMINE (I,T) (OR) N-PROPYLAMINE (I,T)

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U208
. Waste name: 1,1,1,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,1,2-TETRACHLORO-

. Waste code: U209
. Waste name: 1,1,2,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,2,2-TETRACHLORO-

. Waste code: U210
. Waste name: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U219
. Waste name: THIOUREA

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U221
. Waste name: BENZENEDIAMINE, AR-METHYL- (OR) TOLUENEDIAMINE

. Waste code: U222
. Waste name: BENZENAMINE, 2-METHYL-, HYDROCHLORIDE (OR) O-TOLUIDINE HYDROCHLORIDE

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM

. Waste code: U227
. Waste name: 1,1,2-TRICHLOROETHANE (OR) ETHANE, 1,1,2-TRICHLORO-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

. Waste code: U359

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

. Waste name: ETHANOL, 2-ETHOXY- (OR) ETHYLENE GLYCOL MONOETHYL ETHER

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
Waste name: LEAD
Amount (Lbs): 58978

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 15200

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

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, 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.

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

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
Waste name: ACETALDEHYDE, TRICHLORO-
Amount (Lbs): 0

Waste code: U041
Waste name: EPICHLOROHYDRIN
Amount (Lbs): 0

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

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)
Amount (Lbs): 0

Waste code: U182
Waste name: PARALDEHYDE
Amount (Lbs): 0

Waste code: U188

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

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: 1984-04-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1986-10-01 00:00:00.0
Event: LEAD AGENCY DETERMINATION

Event date: 1986-10-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1986-11-01 00:00:00.0
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 1986-11-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1990-09-24 00:00:00.0
Event: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT

Event date: 1990-09-24 00:00:00.0
Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL &/OR TRT

Event date: 1990-09-24 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 1990-09-24 00:00:00.0
Event: CMS IMPOSITION

Event date: 1991-05-01 00:00:00.0
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 1993-09-01 00:00:00.0
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 1993-09-01 00:00:00.0
Event: RFA COMPLETED

Event date: 1993-09-01 00:00:00.0
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

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

Event date:	1994-08-19 00:00:00.0
Event:	REFERRED TO A NON-RCRA AUTHORITY-REFERRED TO CERCLA
Event date:	1994-08-19 00:00:00.0
Event:	CA PRIORITIZATION-MEDIUM CA PRIORITY
Event date:	1996-04-01 00:00:00.0
Event:	INVESTIGATION COMPLETE
Event date:	1997-12-01 00:00:00.0
Event:	STABILIZATION CONSTRUCTION COMPLETED
Event date:	1998-04-06 00:00:00.0
Event:	STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY
Event date:	1998-04-06 00:00:00.0
Event:	REFERRED TO A NON-RCRA AUTHORITY
Event date:	1998-04-06 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	1998-04-06 00:00:00.0
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	1998-04-06 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	1998-04-06 00:00:00.0
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	2000-05-22 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Event date:	2000-05-22 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Event date:	2000-05-22 00:00:00.0
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Event date:	2000-05-22 00:00:00.0
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Event date:	2002-06-18 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	2002-06-18 00:00:00.0
Event:	RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	2004-08-03 00:00:00.0
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	2004-08-03 00:00:00.0

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

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: 2020-03-16 10:58:02.0
Date achieved compliance: 2017-12-15 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2017-11-16 00:00:00.0
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: 2020-03-16 10:58:02.0
Date achieved compliance: 2014-11-20 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2014-11-20 00:00:00.0
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: State Statute or Regulation
Date violation determined: 2020-03-16 10:58:02.0
Date achieved compliance: 2019-12-04 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2019-12-03 00:00:00.0
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: TSD - Manifest/Records/Reporting
Date violation determined: 2020-03-16 10:58:02.0
Date achieved compliance: 2018-12-04 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2018-11-26 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

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

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2020-03-16 10:58:02.0
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2019-12-03 00:00:00.0
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: State Statute or Regulation
Date violation determined: 2020-03-16 10:58:02.0
Date achieved compliance: 2018-12-04 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2018-11-26 00:00:00.0
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: 2020-03-16 10:58:02.0
Date achieved compliance: 2017-11-16 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2017-11-16 00:00:00.0
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: 2020-03-16 10:58:02.0
Date achieved compliance: 2017-11-16 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2017-11-16 00:00:00.0
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

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

Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1989-02-09 00:00:00.0
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: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
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: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
Violation lead agency: EPA
Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement action date: 1988-08-21 00:00:00.0
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: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1989-02-09 00:00:00.0
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

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

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
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: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 2014-09-16 00:00:00.0
Date achieved compliance: 1993-06-15 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1993-04-29 00:00:00.0
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 - 262.50-60
Area of violation: Generators - General
Date violation determined: 2014-09-16 00:00:00.0
Date achieved compliance: 1993-06-15 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1993-04-29 00:00:00.0
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: F - 270
Area of violation: TSD - General
Date violation determined: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
Violation lead agency: EPA
Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement action date: 1988-08-21 00:00:00.0
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

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

Area of violation: TSD - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1990-10-04 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-08-09 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1993-01-15 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1993-04-29 00:00:00.0
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 - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 2003-01-10 17:16:17.0
Date achieved compliance: 1994-08-16 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-05-12 00:00:00.0
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 - 264.10-18.B
Area of violation: TSD - General

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

Date violation determined: 2003-01-10 17:16:17.0
Date achieved compliance: 1994-08-16 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-05-12 00:00:00.0
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: F - 268.7
Area of violation: LDR - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1991-08-20 00:00:00.0
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: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 2003-01-10 17:16:17.0
Date achieved compliance: 1994-08-16 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-05-12 00:00:00.0
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: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1991-08-20 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-09-28 00:00:00.0
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: 2003-01-10 17:16:16.0

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

Date achieved compliance: 1990-10-04 00:00:00.0
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: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1993-06-15 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1993-04-29 00:00:00.0
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: F - 268.7
Area of violation: LDR - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1991-08-20 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-09-28 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1990-10-04 00:00:00.0

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

Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-09-28 00:00:00.0
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: 2003-01-10 17:16:17.0
Date achieved compliance: 1994-08-16 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-05-12 00:00:00.0
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 - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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 - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 2003-01-10 17:16:15.0
Date achieved compliance: 1987-03-25 00:00:00.0
Violation lead agency: EPA

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

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 - 262.50-60
Area of violation: Generators - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1993-01-15 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1992-11-08 00:00:00.0
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 - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1991-08-20 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported

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

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: 2003-01-10 17:16:16.0
Date achieved compliance: 1987-03-25 00:00:00.0
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: 2019-12-03 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2019-12-03 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2019-12-04 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2018-11-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2018-12-04 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2018-11-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Manifest/Records/Reporting
Date achieved compliance: 2018-12-04 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-11-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-General
Date achieved compliance: 2017-12-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-11-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Imports
Date achieved compliance: 2017-11-16 00:00:00.0

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

Evaluation lead agency: State

Evaluation date: 2017-11-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2017-11-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - General
Date achieved compliance: 2017-11-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2016-12-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2016-06-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2014-11-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: HW Management System - Definitions
Date achieved compliance: 2014-11-20 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2013-12-10 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2013-04-16 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-04-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2011-04-12 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-09-30 00:00:00.0

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: 2008-11-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2008-03-04 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-02-07 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2005-12-12 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2004-09-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2003-11-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2002-11-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2001-11-06 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2001-06-13 00:00:00.0
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: 2000-06-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1999-02-16 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1998-02-04 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1997-02-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1996-02-05 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1995-04-06 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 1995-04-06 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1994-04-06 00:00:00.0
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: 1994-04-05 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-08-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-04-05 00:00:00.0

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

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1994-08-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-04-05 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 1994-08-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-03-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1993-06-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-03-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1993-06-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-11-08 00:00:00.0
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 1993-01-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-02-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1992-01-17 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 1991-10-10 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 1991-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1992-01-17 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1991-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-10-04 00:00:00.0

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

Evaluation lead agency: EPA

Evaluation date: 1991-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1992-01-17 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1989-08-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-10-04 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1989-08-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 1991-08-20 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1989-01-23 00:00:00.0
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - General
Date achieved compliance: 1990-10-04 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1988-03-24 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1988-08-21 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1988-03-24 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 1988-08-21 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1987-03-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1987-02-23 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1987-03-25 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1987-02-23 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1987-03-25 00:00:00.0
Evaluation lead agency: EPA

RCRA-LQG:
Date form received by agency: 2018-10-19 00:00:00.0

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

Facility name:	EDWARDS AIR FORCE BASE
Facility address:	446 N. ROSAMOND BLVD BLDG 4916 EDWARDS, CA 93524-1130
EPA ID:	CA1570024504
Mailing address:	NORTH ROSAMOND BLVD, STE A BLDG 3735 EDWARDS, CA 93524
Contact:	D MALAMA CHOCK
Contact address:	NORTH ROSAMOND BLVD, STE A BLDG 3735 EDWARDS, CA 93524
Contact country:	US
Contact telephone:	661-277-3454
Contact email:	D_MALAMA.CHOCK@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 AIR FORCE BASE
Owner/operator address:	N. ROSAMOND BLVD BLDG 4916 EDWARDS, CA 93524
Owner/operator country:	US
Owner/operator telephone:	661-277-3454
Owner/operator email:	D_MALAMA.CHOCK@US.AF.MIL
Owner/operator fax:	661-277-1460
Owner/operator extension:	Not reported
Legal status:	Federal
Owner/Operator Type:	Operator
Owner/Op start date:	1950-01-01 00:00:00.
Owner/Op end date:	Not reported

Owner/operator name:	EDWARDS AIR FORCE BASE
Owner/operator address:	NORTH ROSAMOND BLVD, STE A BLDG 3735 EDWARDS, CA 93524
Owner/operator country:	US
Owner/operator telephone:	661-277-3454
Owner/operator email:	D_MALAMA.CHOCK@US.AF.MIL
Owner/operator fax:	661-277-1460
Owner/operator extension:	Not reported
Legal status:	Federal
Owner/Operator Type:	Owner
Owner/Op start date:	1950-01-01 00:00:00.

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

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: Yes
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: C
Accumulated waste on-site: No
Generated waste on-site: Yes

Waste type: Batteries
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 type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

Waste type: E
Accumulated waste on-site: No
Generated waste on-site: Yes

Historical Generators:
Date form received by agency: 2016-02-29 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2014-03-01 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2012-09-11 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2010-07-13 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

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

Date form received by agency: 2008-02-29 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2006-02-15 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2004-02-26 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2002-03-29 00:00:00.0
Site name: EDWARDS AIRFORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 2000-10-12 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 1999-03-04 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 1998-02-02 00:00:00.0
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 1996-09-01 00:00:00.0
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 1996-03-27 00:00:00.0
Site name: USAF EDWARDS
Classification: Large Quantity Generator

Date form received by agency: 1994-03-29 00:00:00.0
Site name: USAF FLIGHT TEST CTR EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 1992-04-25 00:00:00.0
Site name: EDWARDS AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 1990-04-27 00:00:00.0
Site name: EDWARDS AFB/ EXPLOSIVE ORDINACE
Classification: Large Quantity Generator

Date form received by agency: 1980-08-18 00:00:00.0
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

Date form received by agency: 1980-08-18 00:00:00.0
Site name: USAF EDWARDS AFB
Classification: Large Quantity Generator

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

Hazardous Waste Summary:

. 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, etc.)

. 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: 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
. Waste name: Organic liquids (nonsolvents) with halogens

. Waste code: 342
. Waste name: Organic liquids with metals (see 121)

. Waste code: 343

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

. 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: 614
. Waste name: Treated wood 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

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

. 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 WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. 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

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

. 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
(1,2,3,4,10,10-HEXACHLORO-1,7-EPOXY-1,4,4A,5,6,7,8,8A-OCTAHYDRO-1,4-EN
DO, ENDO-5,8-DIMETH-ANO-NAPHTHALENE)

. Waste code: D013
. Waste name: LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)

. Waste code: D014
. Waste name: METHOXYCHLOR (1,1,1-TRICHLORO-2,2-BIS [P-METHOXYPHENYL] ETHANE)

. Waste code: D015
. Waste name: TOXAPHENE (C10 H10 CL8, TECHNICAL CHLORINATED CAMPHENE, 67-69 PERCENT
CHLORINE)

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D017
. Waste name: 2,4,5-TP SILVEX (2,4,5-TRICHLOROPHENOXYPROPIONIC ACID)

. 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

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

. 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

. 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: PENTACHLOROPHENOL

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. 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, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED

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

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 SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED 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 NONHALOGENATED 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 NONHALOGENATED 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: F027

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

. 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 SYNTHESIZED 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% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P003
. Waste name: 2-PROPENAL (OR) ACROLEIN

. Waste code: P005
. Waste name: 2-PROPEN-1-OL (OR) ALLYL ALCOHOL

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

. Waste code: P014
. Waste name: BENZENETHIOL (OR) THIOPHENOL

. Waste code: P027
. Waste name: 3-CHLOROPROPIONITRILE (OR) PROPANENITRILE, 3-CHLORO-

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P031
. Waste name: CYANOGEN (OR) ETHANEDINITRILE

. Waste code: P033
. Waste name: CYANOGEN CHLORIDE (OR) CYANOGEN CHLORIDE (CN)CL

. Waste code: P037
. 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, 2AALPHA, 3BETA, 6BETA, 6AALPHA, 7BETA, 7AALPHA)- (OR) DIELDRIN

. Waste code: P047
. Waste name: 4,6-DINITRO-O-CRESOL, & SALTS (OR) PHENOL, 2-METHYL-4,6-DINITRO-, & SALTS

. Waste code: P048
. Waste name: 2,4-DINITROPHENOL (OR) PHENOL, 2,4-DINITRO-

. Waste code: P050
. Waste name: 6,9-METHANO-2,4,3-BENZODIOXATHIEPIN,6,7,8,9,10,10-HEXACHLORO-1,5,5A,6,9,9A-HEXAHYDRO-,3-OXIDE (OR) ENDOSULFAN

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

. 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 (OR) ENDRIN (OR) ENDRIN, & METABOLITES

. Waste code: P056
. Waste name: FLUORINE

. Waste code: P059
. Waste name: 4,7-METHANO-1H-INDENE, 1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO- (OR) HEPTACHLOR

. Waste code: P063
. Waste name: HYDROCYANIC ACID (OR) HYDROGEN CYANIDE

. Waste code: P068
. Waste name: HYDRAZINE, METHYL- (OR) METHYL HYDRAZINE

. Waste code: P073
. Waste name: NICKEL CARBONYL (OR) NICKEL CARBONYL NI(CO)4, (T-4)-

. Waste code: P077
. Waste name: BENZENAMINE, 4-NITRO- (OR) P-NITROANILINE

. Waste code: P078
. Waste name: NITROGEN DIOXIDE (OR) NITROGEN OXIDE NO2

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U001
. Waste name: ACETALDEHYDE (I) (OR) ETHANAL (I)

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U004
. Waste name: ACETOPHENONE (OR) ETHANONE, 1-PHENYL-

. Waste code: U007
. Waste name: 2-PROPENAMIDE (OR) ACRYLAMIDE

. Waste code: U008
. Waste name: 2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)

. Waste code: U009
. Waste name: 2-PROPENENITRILE (OR) ACRYLONITRILE

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

. Waste code: U012
. Waste name: ANILINE (I,T) (OR) BENZENAMINE (I,T)

. Waste code: U019
. Waste name: BENZENE (I,T)

. Waste code: U029
. Waste name: METHANE, BROMO- (OR) METHYL BROMIDE

. Waste code: U031
. Waste name: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U037
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE

. Waste code: U041
. Waste name: EPICHLOROHYDRIN (OR) OXIRANE, (CHLOROMETHYL)-

. Waste code: U042
. Waste name: 2-CHLOROETHYL VINYL ETHER (OR) ETHENE, (2-CHLOROETHOXY)-

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U045
. Waste name: METHANE, CHLORO- (I,T) (OR) METHYL CHLORIDE (I,T)

. Waste code: U048
. Waste name: O-CHLOROPHENOL (OR) PHENOL, 2-CHLORO-

. Waste code: U053
. Waste name: 2-BUTENAL (OR) CROTONALDEHYDE

. Waste code: U056
. Waste name: BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)

. Waste code: U057
. Waste name: CYCLOHEXANONE (I)

. Waste code: U060
. Waste name: BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDD

. Waste code: U061
. Waste name: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDT

. Waste code: U066
. Waste name: 1,2-DIBROMO-3-CHLOROPROPANE (OR) PROPANE, 1,2-DIBROMO-3-CHLORO-

. Waste code: U067
. Waste name: ETHANE, 1,2-DIBROMO- (OR) ETHYLENE DIBROMIDE

. Waste code: U068
. Waste name: METHANE, DIBROMO- (OR) METHYLENE BROMIDE

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

. Waste code: U069
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

. Waste code: U071
. Waste name: BENZENE, 1,3-DICHLORO- (OR) M-DICHLOROBENZENE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U074
. Waste name: 1,4-DICHLORO-2-BUTENE (I,T) (OR) 2-BUTENE, 1,4-DICHLORO- (I,T)

. Waste code: U076
. Waste name: ETHANE, 1,1-DICHLORO- (OR) ETHYLIDENE DICHLORIDE

. Waste code: U077
. Waste name: ETHANE, 1,2-DICHLORO- (OR) ETHYLENE DICHLORIDE

. Waste code: U078
. Waste name: 1,1-DICHLOROETHYLENE (OR) ETHENE, 1,1-DICHLORO-

. Waste code: U080
. Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

. Waste code: U081
. Waste name: 2,4-DICHLOROPHENOL (OR) PHENOL, 2,4-DICHLORO-

. Waste code: U084
. Waste name: 1,3-DICHLOROPROPENE (OR) 1-PROPENE, 1,3-DICHLORO-

. Waste code: U085
. Waste name: 1,2:3,4-DIEPOXYBUTANE (I,T) (OR) 2,2'-BIOXIRANE

. Waste code: U098
. Waste name: 1,1-DIMETHYLHYDRAZINE (OR) HYDRAZINE, 1,1-DIMETHYL-

. Waste code: U101
. Waste name: 2,4-DIMETHYLPHENOL (OR) PHENOL, 2,4-DIMETHYL-

. Waste code: U103
. Waste name: DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER

. Waste code: U108
. Waste name: 1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE

. Waste code: U112
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

. Waste code: U121
. Waste name: METHANE, TRICHLOROFLUORO- (OR) TRICHLOROMONOFLUOROMETHANE

. Waste code: U122
. Waste name: FORMALDEHYDE

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

. Waste code: U123
. Waste name: FORMIC ACID (C,T)

. Waste code: U128
. Waste name: 1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO- (OR) HEXACHLOROBUTADIENE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U131
. Waste name: ETHANE, HEXACHLORO- (OR) HEXACHLOROETHANE

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

. Waste code: U135
. Waste name: HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S

. Waste code: U138
. Waste name: METHANE, IODO- (OR) METHYL IODIDE

. Waste code: U140
. Waste name: 1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

. Waste code: U147
. Waste name: 2,5-FURANDIONE (OR) MALEIC ANHYDRIDE

. Waste code: U149
. Waste name: MALONONITRILE (OR) PROPANEDINITRILE

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U151
. Waste name: MERCURY

. Waste code: U152
. Waste name: 2-PROPENENITRILE, 2-METHYL- (I,T) (OR) METHACRYLONITRILE (I,T)

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

. Waste code: U161
. Waste name: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-

. Waste code: U162

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

. Waste name: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U170
. Waste name: P-NITROPHENOL (I,T) (OR) PHENOL, 4-NITRO-

. Waste code: U171
. Waste name: 2-NITROPROPANE (I,T) (OR) PROPANE, 2-NITRO- (I,T)

. Waste code: U172
. Waste name: 1-BUTANAMINE, N-BUTYL-N-NITROSO- (OR) N-NITROSODI-N-BUTYLAMINE

. Waste code: U182
. Waste name: 1,3,5-TRIOXANE, 2,4,6-TRIMETHYL- (OR) PARALDEHYDE

. Waste code: U184
. Waste name: ETHANE, PENTACHLORO- (OR) PENTACHLOROETHANE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U194
. Waste name: 1-PROPANAMINE (I,T) (OR) N-PROPYLAMINE (I,T)

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U208
. Waste name: 1,1,1,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,1,2-TETRACHLORO-

. Waste code: U209
. Waste name: 1,1,2,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,2,2-TETRACHLORO-

. Waste code: U210
. Waste name: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U219
. Waste name: THIOUREA

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U221
. Waste name: BENZENEDIAMINE, AR-METHYL- (OR) TOLUENEDIAMINE

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

. Waste code: U222
. Waste name: BENZENAMINE, 2-METHYL-, HYDROCHLORIDE (OR) O-TOLUIDINE HYDROCHLORIDE

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM

. Waste code: U227
. Waste name: 1,1,2-TRICHLOROETHANE (OR) ETHANE, 1,1,2-TRICHLORO-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

. Waste code: U359
. Waste name: ETHANOL, 2-ETHOXY- (OR) ETHYLENE GLYCOL MONOETHYL ETHER

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

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

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
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

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

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, 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

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

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
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

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

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)
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: 1984-04-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1986-10-01 00:00:00.0
Event: LEAD AGENCY DETERMINATION

Event date: 1986-10-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1986-11-01 00:00:00.0
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 1986-11-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1990-09-24 00:00:00.0
Event: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT

Event date: 1990-09-24 00:00:00.0

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

Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL &/OR TRT

Event date: 1990-09-24 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 1990-09-24 00:00:00.0
Event: CMS IMPOSITION

Event date: 1991-05-01 00:00:00.0
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 1993-09-01 00:00:00.0
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 1993-09-01 00:00:00.0
Event: RFA COMPLETED

Event date: 1993-09-01 00:00:00.0
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 1994-08-19 00:00:00.0
Event: REFERRED TO A NON-RCRA AUTHORITY-REFERRED TO CERCLA

Event date: 1994-08-19 00:00:00.0
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Event date: 1996-04-01 00:00:00.0
Event: INVESTIGATION COMPLETE

Event date: 1997-12-01 00:00:00.0
Event: STABILIZATION CONSTRUCTION COMPLETED

Event date: 1998-04-06 00:00:00.0
Event: STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY

Event date: 1998-04-06 00:00:00.0
Event: REFERRED TO A NON-RCRA AUTHORITY

Event date: 1998-04-06 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 1998-04-06 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 1998-04-06 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 1998-04-06 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 2000-05-22 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

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

Event date: 2000-05-22 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 2000-05-22 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 2000-05-22 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 2002-06-18 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2002-06-18 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2004-08-03 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 2004-08-03 00:00:00.0
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: 2020-03-16 10:58:02.0
Date achieved compliance: 2017-12-15 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2017-11-16 00:00:00.0
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: 2020-03-16 10:58:02.0
Date achieved compliance: 2014-11-20 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2014-11-20 00:00:00.0
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: State Statute or Regulation
Date violation determined: 2020-03-16 10:58:02.0
Date achieved compliance: 2019-12-04 00:00:00.0
Violation lead agency: State

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

Enforcement action: Not reported
Enforcement action date: 2019-12-03 00:00:00.0
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: TSD - Manifest/Records/Reporting
Date violation determined: 2020-03-16 10:58:02.0
Date achieved compliance: 2018-12-04 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2018-11-26 00:00:00.0
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: State Statute or Regulation
Date violation determined: 2020-03-16 10:58:02.0
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2019-12-03 00:00:00.0
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: State Statute or Regulation
Date violation determined: 2020-03-16 10:58:02.0
Date achieved compliance: 2018-12-04 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2018-11-26 00:00:00.0
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: 2020-03-16 10:58:02.0
Date achieved compliance: 2017-11-16 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported

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

Enforcement action date: 2017-11-16 00:00:00.0
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: 2020-03-16 10:58:02.0
Date achieved compliance: 2017-11-16 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2017-11-16 00:00:00.0
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: F - 270
Area of violation: TSD - General
Date violation determined: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1989-02-09 00:00:00.0
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: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
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: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
Violation lead agency: EPA
Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement action date: 1988-08-21 00:00:00.0

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 - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1989-02-09 00:00:00.0
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: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
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: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 2014-09-16 00:00:00.0
Date achieved compliance: 1993-06-15 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1993-04-29 00:00:00.0
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 - 262.50-60
Area of violation: Generators - General
Date violation determined: 2014-09-16 00:00:00.0
Date achieved compliance: 1993-06-15 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1993-04-29 00:00:00.0
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: F - 270
Area of violation: TSD - General
Date violation determined: 2014-09-16 00:00:00.0
Date achieved compliance: 1988-08-21 00:00:00.0
Violation lead agency: EPA
Enforcement action: STATE TO EPA ADMINISTRATIVE REFERRAL
Enforcement action date: 1988-08-21 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1990-10-04 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1990-08-09 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1993-01-15 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1993-04-29 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

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

Enforcement lead agency: State
Proposed penalty amount: 2200
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: 2003-01-10 17:16:17.0
Date achieved compliance: 1994-08-16 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-05-12 00:00:00.0
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 - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 2003-01-10 17:16:17.0
Date achieved compliance: 1994-08-16 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-05-12 00:00:00.0
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: F - 268.7
Area of violation: LDR - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1991-08-20 00:00:00.0
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: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 2003-01-10 17:16:17.0
Date achieved compliance: 1994-08-16 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-05-12 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

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

Proposed penalty amount: 4700
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1991-08-20 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-09-28 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1990-10-04 00:00:00.0
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: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1993-06-15 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1993-04-29 00:00:00.0
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: F - 268.7
Area of violation: LDR - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1991-08-20 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-09-28 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported

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

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1990-10-04 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-09-28 00:00:00.0
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: 2003-01-10 17:16:17.0
Date achieved compliance: 1994-08-16 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1994-05-12 00:00:00.0
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 - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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

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

Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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 - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 2003-01-10 17:16:15.0
Date achieved compliance: 1987-03-25 00:00:00.0
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: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1993-01-15 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 1992-11-08 00:00:00.0
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

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

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 2003-01-10 17:16:16.0
Date achieved compliance: 1992-01-17 00:00:00.0
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-12-06 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1991-08-20 00:00:00.0
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: 2003-01-10 17:16:16.0
Date achieved compliance: 1987-03-25 00:00:00.0
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: 2019-12-03 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2019-12-03 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2019-12-04 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2018-11-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

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

Area of violation: State Statute or Regulation
Date achieved compliance: 2018-12-04 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2018-11-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Manifest/Records/Reporting
Date achieved compliance: 2018-12-04 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-11-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-General
Date achieved compliance: 2017-12-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-11-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Imports
Date achieved compliance: 2017-11-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-11-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2017-11-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - General
Date achieved compliance: 2017-11-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2016-12-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2016-06-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2014-11-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: HW Management System - Definitions
Date achieved compliance: 2014-11-20 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2013-12-10 00:00:00.0
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: 2013-04-16 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-04-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2011-04-12 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-09-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2008-11-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2008-03-04 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2007-02-07 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2005-12-12 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2004-09-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2003-11-19 00:00:00.0
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: State

Evaluation date: 2002-11-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2001-11-06 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2001-06-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2000-06-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1999-02-16 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1998-02-04 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1997-02-18 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1996-02-05 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1995-04-06 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

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

Evaluation date: 1995-04-06 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1994-04-06 00:00:00.0
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: 1994-04-05 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-08-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-04-05 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1994-08-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-04-05 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 1994-08-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-03-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1993-06-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-03-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1993-06-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-11-08 00:00:00.0
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 1993-01-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-02-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1992-01-17 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported

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

Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 1991-10-10 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 1991-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1992-01-17 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1991-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-10-04 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1991-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1992-01-17 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1989-08-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-10-04 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1989-08-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 1991-08-20 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1989-01-23 00:00:00.0
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - General
Date achieved compliance: 1990-10-04 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1988-03-24 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1988-08-21 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1988-03-24 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 1988-08-21 00:00:00.0
Evaluation lead agency: EPA

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

Evaluation date: 1987-03-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1987-02-23 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 1987-03-25 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1987-02-23 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1987-03-25 00:00:00.0
Evaluation lead agency: EPA

SIte:
Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
Event Code: Not reported
Action Taken Date: 06/28/2013
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ESD
Action ID: 1
Operable Unit: 11
Action Completion Date: 10/30/2013
Contaminated Media: Debris
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Media:
EPA ID: CA1570024504
Contaminated Media: Soil
Site ID: 0902725
Action ID: 3
Action Completion Date: 09/30/2007
Operable Unit: 04
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/24/2007
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Debris
Site ID: 0902725
Action ID: 12
Action Completion Date: 09/30/2008
Operable Unit: 11
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 08/04/2008

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

Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Groundwater
Site ID: 0902725
Action ID: 1
Action Completion Date: 09/30/2009
Operable Unit: 02
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 06/24/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Solid Waste
Site ID: 0902725
Action ID: 1
Action Completion Date: 09/30/2009
Operable Unit: 02
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 06/24/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Groundwater
Site ID: 0902725
Action ID: 1
Action Completion Date: 09/30/2009
Operable Unit: 02
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 06/24/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Groundwater
Site ID: 0902725
Action ID: 3
Action Completion Date: 09/30/2007
Operable Unit: 04
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/24/2007
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

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

EPA ID: CA1570024504
Contaminated Media: Debris
Site ID: 0902725
Action ID: 12
Action Completion Date: 09/30/2008
Operable Unit: 11
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 08/04/2008
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Debris
Site ID: 0902725
Action ID: 1
Action Completion Date: 10/30/2013
Operable Unit: 11
Action Name: FF ESD
Action Taken Date: 06/28/2013
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Groundwater
Site ID: 0902725
Action ID: 4
Action Completion Date: 09/30/2006
Operable Unit: 06
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/28/2006
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Debris
Site ID: 0902725
Action ID: 15
Action Completion Date: 09/30/2012
Operable Unit: 13
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/21/2012
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Solid Waste
Site ID: 0902725
Action ID: 15
Action Completion Date: 09/30/2012

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

Operable Unit:	13
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	09/21/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Groundwater
Site ID:	0902725
Action ID:	15
Action Completion Date:	09/30/2012
Operable Unit:	13
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	09/21/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Solid Waste
Site ID:	0902725
Action ID:	5
Action Completion Date:	09/30/2009
Operable Unit:	15
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	09/16/2009
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Groundwater
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2009
Operable Unit:	02
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	06/24/2009
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Soil
Site ID:	0902725
Action ID:	12
Action Completion Date:	09/30/2008
Operable Unit:	11
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	08/04/2008
Event Code:	Not reported
Contact Name:	Not reported

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

Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Soil
Site ID: 0902725
Action ID: 1
Action Completion Date: 09/30/2012
Operable Unit: 02
Action Name: FF ROD Amendment
Action Taken Date: 09/27/2012
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Solid Waste
Site ID: 0902725
Action ID: 1
Action Completion Date: 09/30/2009
Operable Unit: 02
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 06/24/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Groundwater
Site ID: 0902725
Action ID: 1
Action Completion Date: 09/30/2009
Operable Unit: 02
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 06/24/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Debris
Site ID: 0902725
Action ID: 1
Action Completion Date: 09/30/2009
Operable Unit: 02
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 06/24/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Debris

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

Site ID:	0902725
Action ID:	12
Action Completion Date:	09/30/2008
Operable Unit:	11
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	08/04/2008
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Solid Waste
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2012
Operable Unit:	02
Action Name:	FF ROD Amendment
Action Taken Date:	09/27/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Soil
Site ID:	0902725
Action ID:	1
Action Completion Date:	10/30/2013
Operable Unit:	11
Action Name:	FF ESD
Action Taken Date:	06/28/2013
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Soil
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2012
Operable Unit:	02
Action Name:	FF ROD Amendment
Action Taken Date:	09/27/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Free-phase NAPL
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2009
Operable Unit:	02
Action Name:	FF ROD (RCRA Statement of Basis/RTC)

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

Action Taken Date:	06/24/2009
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Groundwater
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2009
Operable Unit:	02
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	06/24/2009
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Soil
Site ID:	0902725
Action ID:	12
Action Completion Date:	09/30/2008
Operable Unit:	11
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	08/04/2008
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Soil
Site ID:	0902725
Action ID:	12
Action Completion Date:	09/30/2008
Operable Unit:	11
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	08/04/2008
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Solid Waste
Site ID:	0902725
Action ID:	15
Action Completion Date:	09/30/2012
Operable Unit:	13
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	09/21/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

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

EPA ID: CA1570024504
Contaminated Media: Debris
Site ID: 0902725
Action ID: 15
Action Completion Date: 09/30/2012
Operable Unit: 13
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/21/2012
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Solid Waste
Site ID: 0902725
Action ID: 1
Action Completion Date: 09/30/2009
Operable Unit: 02
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 06/24/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Solid Waste
Site ID: 0902725
Action ID: 15
Action Completion Date: 09/30/2012
Operable Unit: 13
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/21/2012
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Solid Waste
Site ID: 0902725
Action ID: 5
Action Completion Date: 09/30/2009
Operable Unit: 15
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/16/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Debris
Site ID: 0902725
Action ID: 1
Action Completion Date: 10/30/2013

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

Operable Unit:	11
Action Name:	FF ESD
Action Taken Date:	06/28/2013
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Solid Waste
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2012
Operable Unit:	02
Action Name:	FF ROD Amendment
Action Taken Date:	09/27/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Soil
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2009
Operable Unit:	02
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	06/24/2009
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Free-phase NAPL
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2009
Operable Unit:	02
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	06/24/2009
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Debris
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2009
Operable Unit:	02
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	06/24/2009
Event Code:	Not reported
Contact Name:	Not reported

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

Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Groundwater
Site ID: 0902725
Action ID: 2
Action Completion Date: 09/30/2003
Operable Unit: 03
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/30/2003
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Debris
Site ID: 0902725
Action ID: 15
Action Completion Date: 09/30/2012
Operable Unit: 13
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/21/2012
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Landfill Gas
Site ID: 0902725
Action ID: 15
Action Completion Date: 09/30/2012
Operable Unit: 13
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/21/2012
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Solid Waste
Site ID: 0902725
Action ID: 5
Action Completion Date: 09/30/2009
Operable Unit: 15
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/16/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Solid Waste

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

Site ID: 0902725
Action ID: 5
Action Completion Date: 09/30/2009
Operable Unit: 15
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/16/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Debris
Site ID: 0902725
Action ID: 12
Action Completion Date: 09/30/2008
Operable Unit: 11
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 08/04/2008
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Soil
Site ID: 0902725
Action ID: 5
Action Completion Date: 09/30/2009
Operable Unit: 15
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/16/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Solid Waste
Site ID: 0902725
Action ID: 5
Action Completion Date: 09/30/2009
Operable Unit: 15
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/16/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Solid Waste
Site ID: 0902725
Action ID: 1
Action Completion Date: 09/30/2012
Operable Unit: 02
Action Name: FF ROD Amendment

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

Action Taken Date:	09/27/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Solid Waste
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2012
Operable Unit:	02
Action Name:	FF ROD Amendment
Action Taken Date:	09/27/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Soil
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2012
Operable Unit:	02
Action Name:	FF ROD Amendment
Action Taken Date:	09/27/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Debris
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2009
Operable Unit:	02
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	06/24/2009
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
EPA ID:	CA1570024504
Contaminated Media:	Soil
Site ID:	0902725
Action ID:	4
Action Completion Date:	09/30/2006
Operable Unit:	06
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	09/28/2006
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

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

EPA ID: CA1570024504
Contaminated Media: Groundwater
Site ID: 0902725
Action ID: 4
Action Completion Date: 09/30/2006
Operable Unit: 06
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/28/2006
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Soil
Site ID: 0902725
Action ID: 12
Action Completion Date: 09/30/2008
Operable Unit: 11
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 08/04/2008
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Debris
Site ID: 0902725
Action ID: 15
Action Completion Date: 09/30/2012
Operable Unit: 13
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/21/2012
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Soil
Site ID: 0902725
Action ID: 1
Action Completion Date: 10/30/2013
Operable Unit: 11
Action Name: FF ESD
Action Taken Date: 06/28/2013
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Groundwater
Site ID: 0902725
Action ID: 15
Action Completion Date: 09/30/2012

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

Operable Unit:	13
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	09/21/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Solid Waste
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2012
Operable Unit:	02
Action Name:	FF ROD Amendment
Action Taken Date:	09/27/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Soil
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2012
Operable Unit:	02
Action Name:	FF ROD Amendment
Action Taken Date:	09/27/2012
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Groundwater
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2009
Operable Unit:	02
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	06/24/2009
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

EPA ID:	CA1570024504
Contaminated Media:	Solid Waste
Site ID:	0902725
Action ID:	1
Action Completion Date:	09/30/2009
Operable Unit:	02
Action Name:	FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date:	06/24/2009
Event Code:	Not reported
Contact Name:	Not reported

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

Contact Telephone: Not reported
Event: Not reported

EPA ID: CA1570024504
Contaminated Media: Groundwater
Site ID: 0902725
Action ID: 1
Action Completion Date: 09/30/2009
Operable Unit: 02
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 06/24/2009
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

US INST CONTROLS:
Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 15
Operable Unit: 13
Action Completion Date: 09/30/2012
Actual Date: 09/21/2012
Contaminated Media: Solid Waste
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 12
Operable Unit: 11
Action Completion Date: 09/30/2008
Actual Date: 08/04/2008
Contaminated Media: Debris
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504

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

Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 5
Operable Unit: 15
Action Completion Date: 09/30/2009
Actual Date: 09/16/2009
Contaminated Media: Solid Waste
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 15
Operable Unit: 13
Action Completion Date: 09/30/2012
Actual Date: 09/21/2012
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ESD
Action ID: 1
Operable Unit: 11
Action Completion Date: 10/30/2013
Actual Date: 06/28/2013
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 3
Operable Unit: 04
Action Completion Date: 09/30/2007
Actual Date: 09/24/2007

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

Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 1
Operable Unit: 02
Action Completion Date: 09/30/2009
Actual Date: 06/24/2009
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 3
Operable Unit: 04
Action Completion Date: 09/30/2007
Actual Date: 09/24/2007
Contaminated Media: Soil Gas
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 15
Operable Unit: 13
Action Completion Date: 09/30/2012
Actual Date: 09/21/2012
Contaminated Media: Debris
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

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

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 4
Operable Unit: 06
Action Completion Date: 09/30/2006
Actual Date: 09/28/2006
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 12
Operable Unit: 11
Action Completion Date: 09/30/2008
Actual Date: 08/04/2008
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 15
Operable Unit: 13
Action Completion Date: 09/30/2012
Actual Date: 09/21/2012
Contaminated Media: Landfill Gas
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725

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

Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 1
Operable Unit: 02
Action Completion Date: 09/30/2009
Actual Date: 06/24/2009
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB
Address 2: 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
Site ID: 0902725
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 1
Operable Unit: 02
Action Completion Date: 09/30/2009
Actual Date: 06/24/2009
Contaminated Media: Solid Waste
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

ENVIROSTOR:
Name: EDWARDS AIR FORCE BASE - IR/MMRP
Address: 470 SQ MI; 60 MI NE OF LOS ANGELES, CA
City,State,Zip: EDWARDS, CA 93523
Facility ID: 15970001
Status: Active
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 -

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

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, AIRFIELD OPERATIONS, FIRE TRAINING AREAS

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 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

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

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 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

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

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 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,

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

SOIL, SV, IA

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
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
Alias Type:	GeoTracker Global ID
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

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

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
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
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Alias Name:	DOD100088800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100088900
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Alias Name:	DOD100089000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100089100
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Alias Name:	DOD100097800
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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

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

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100098900
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Alias Name:	DOD100099000
Alias Type:	GeoTracker Global ID
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
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Alias Name:	DOD100100500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100600
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Alias Name:	DOD100100700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100100900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101300
Alias Type:	GeoTracker Global ID

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

Alias Name:	DOD100101400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100101500
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
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
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100103400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100103500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100103600
Alias Type:	GeoTracker Global ID
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

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

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
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 Name:	DOD100105500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100105600
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Alias Name:	DOD100105700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100105800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100105900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100106000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100106100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100106200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100106300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100106400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100106500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100106600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100106700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100106800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100106900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100107000
Alias Type:	GeoTracker Global ID

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

Alias Name:	DOD100107100
Alias Type:	GeoTracker Global ID
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
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
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100108800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100108900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100109000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100109100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100109200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100109300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100109400
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Alias Name:	DOD100109500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100109600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100109700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100109800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100109900

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

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
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
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Alias Name:	DOD100111300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111500
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Alias Name:	DOD100111700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100111800
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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 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

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

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
Alias Type:	GeoTracker Global ID
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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
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114000
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Alias Name:	DOD100114100
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Alias Name:	DOD100114200
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100114700
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Alias Name:	DOD100114900
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Alias Name:	DOD100115200
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100115400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100115500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100115600

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

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100115700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100115800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100115900
Alias Type:	GeoTracker Global ID
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Alias Name:	DOD100116100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116300
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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
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Alias Name:	DOD100116800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100116900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100117000
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Alias Name:	DOD100117100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100117200
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Alias Name:	DOD100117400
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Alias Name:	DOD100117500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100117600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100117700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100117800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100117900
Alias Type:	GeoTracker Global ID
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

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

Alias Name:	DOD100118500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100118600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100118700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100118800
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Alias Name:	DOD100118900
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Alias Name:	DOD100120200
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Alias Name:	DOD100120700
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100120900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121300

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

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121600
Alias Type:	GeoTracker Global ID
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100121900
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Alias Name:	DOD100122000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100122100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100122200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100122300
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Alias Name:	DOD100122400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100122500
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Alias Name:	DOD100122600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100122700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100122800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100122900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100123000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100123100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100123200
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Alias Name:	DOD100123300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100123400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100123500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100123600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100123700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100123800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100123900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100124000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100124100
Alias Type:	GeoTracker Global ID

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

Alias Name:	DOD100124200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100124300
Alias Type:	GeoTracker Global ID
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
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100124800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100124900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100125000
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Alias Name:	DOD100125100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100125200
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Alias Name:	DOD100125400
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Alias Name:	DOD100126100
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Alias Name:	DOD100126200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100126300
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Alias Name:	DOD100126400
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Alias Name:	DOD100126500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100126600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100126700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100126800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100126900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127000

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

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100127200
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
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Alias Type:	GeoTracker Global ID
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Alias Name:	DOD100129100
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Alias Name:	DOD100129200
Alias Type:	GeoTracker Global ID
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Alias Name:	DOD100129500
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Alias Name:	DOD100129600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100129700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100129800
Alias Type:	GeoTracker Global ID

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

Alias Name:	DOD100129900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100130000
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100130100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100130200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100130300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100130400
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Alias Name:	DOD100130500
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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

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

Alias Type:	GeoTracker Global ID
Alias Name:	DOD100133200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100133300
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100133400
Alias Type:	GeoTracker Global ID
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Alias Type:	GeoTracker Global ID
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Alias Type:	GeoTracker Global ID
Alias Name:	DOD100134000
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Alias Name:	DOD100134100
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Alias Name:	DOD100134200
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Alias Name:	DOD100134400
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Alias Name:	DOD100134500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100134600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100134700
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Alias Name:	DOD100134800
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Alias Name:	DOD100135500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100135600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100135700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100135800
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100135900
Alias Type:	GeoTracker Global ID

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

Alias Name:	DOD100136400
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100136500
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100136600
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100136700
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Alias Name:	DOD100136800
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Alias Name:	DOD100136900
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100137000
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Alias Name:	DOD100137100
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100137200
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100137300
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Alias Name:	DOD100137500
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EDWARDS AIR FORCE BASE (Continued) **1000155217**

Alias Type: Envirostor ID Number

Completed Info:

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
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

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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 - 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
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

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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
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

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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.

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.

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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: 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

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

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) 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.

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Completed Area Name: 1 - Operable Unit 1, Main Base Flightline
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
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

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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 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

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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 - 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)

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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 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,

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459, and 460.

Completed Area Name: Sites With No Operable Unit
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

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Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/07/2001
Comments: PEA - PRL14 -- Concurrence provided on PEA equivalent documents for 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.

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Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL7
Completed Document Type: Preliminary Endangerment Assessment Report
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.

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Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PRL5
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

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the system will also be required.

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

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location recorded in the Base Comprehensive Plan.

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.

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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: 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.

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Completed Area Name: 2 - Operable Unit 2, South Base
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

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remedial actions for Site 282 or 285; 23 sites were removed from the 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

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unrestricted use at Sites or AOCs 7, 26, 153, 166, 170, 171, 172, and 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: 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

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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.

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

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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.

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

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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

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

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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 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

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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.
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

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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
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

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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
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.

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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
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.

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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
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

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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

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

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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 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.

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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
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

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

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
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

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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
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

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

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
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

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

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.
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

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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
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

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

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 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

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

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.

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

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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
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

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

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
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

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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
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

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

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

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

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

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
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

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 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
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

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

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

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

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: 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

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

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

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
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

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

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
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

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

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.

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

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

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
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

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

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

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.

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

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
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

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

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

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

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

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
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

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

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
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

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

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

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.

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

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: 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

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

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

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

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: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Technical Report
Completed Date: 12/24/2019
Comments: Site 25 Nitrate/Mineral Source Area Evaluation Tech Memo

Completed Area Name: 4A - AFRL Area
Completed Sub Area Name: Site 37
Completed Document Type: Monitoring Report
Completed Date: 01/03/2020
Comments: Site 37 SVE O&M and Building 8595 Vapor Intrusion Monitoring Report for 2018

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 12/26/2019
Comments: Expanded Site Inspection of Aqueous Film Forming Foam Usage Workplan

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 442
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 07/24/2019
Comments: Soil Gas Sampling Workplan Addendum, OU 7, Chemical Warfare Material

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

Site 442, Areas 1, 2, and 3

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: 02/11/2019
Comments: Site 3 Annual Remedial Action Status Report, October 2016 through September 2017

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: Removal Action Workplan
Completed Date: 01/29/2019
Comments: Sites 81 and 102 Removal Action Workplan

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: 10/08/2019
Comments: Basewide GWM SAP Volume IV Long-Term Monitoring Optimization

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
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

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

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: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 05/31/2019
Comments: Final OU6 NASA Land Use Restriction Report

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 86
Completed Document Type: Monitoring Report
Completed Date: 12/24/2019
Comments: No Final DTSC letter needed.

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Technical Workplan
Completed Date: 08/16/2019
Comments: Site 25 Tracer Injection Workplan

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 442
Completed Document Type: 5 Year Review Workplan
Completed Date: 07/24/2019
Comments: 2019 Soil Gas Sampling Workplan for Site 442

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: 01/03/2020
Comments: Site 285 Groundwater Monitoring Report for 2018

Completed Area Name: 1 - Operable Unit 1, Main Base Flightline

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

Completed Sub Area Name: Site 18
Completed Document Type: Monitoring Report
Completed Date: 04/08/2019
Comments: Final Report

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
Completed Sub Area Name: Site 442
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/25/2019
Comments: Site 442 Annual Remedial Action Stutus Report, October 2017 - September 2018

Completed Area Name: 4/9 Mars Blvd Sites
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/17/2019
Comments: Sites 6 and 113 Groundwater Monitoring Report for 2018

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Enforceable Schedule
Completed Date: 01/15/2019
Comments: Based on RPM discussions in the November 2018 RPM meeting, the 1st Qtr Update to the FFA schedule was finalized on 1/15/19

Completed Area Name: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 07/09/2019
Comments: Technical Memorandum for Site 25 Leading Edge Well Installation

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 5
Completed Document Type: Well Completion Report
Completed Date: 03/29/2019
Comments: Document issued only as Final by Air Force

Completed Area Name: 2 - Operable Unit 2, South Base - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/18/2019
Comments: Final version of document submitted by Air Force on 12/18/2019.

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: 05/29/2019
Comments: Soil and Debris Sites 2018 Land Use Controls Inspection and Maintenance Report. DTSC has reviewed and concurs with the report.

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 3
Completed Document Type: Remedial Action Completion Report
Completed Date: 01/31/2019
Comments: Site 3 Interim Remedial Action Completion Report, Landfill Cap Construction

Completed Area Name: 7 - Operable Unit 7, Basewide Misc.
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: 6 - Operable Unit 6, NASA Dryden
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 04/02/2019
Comments: Final OU6 Groundwater SAP received by DTSC on 2 April 2019.

Completed Area Name: 4/9 - Soil and Debris Sites
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/09/2019
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: 09/26/2018
Comments: Site 25 Updated Cross Sections and 2016 Groundwater Level Contour Maps Technical Memorandum

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

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: 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

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.

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

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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: 7 - Operable Unit 7, Basewide Misc. - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 03/15/2019
Comments: Final Supplemental RI/FS Report, OU7 Sites 267, 269 and 294.

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
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: Multiple OUs - MULTIPLE SITES
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 11/01/2019
Comments: While the Air Force titled this document a Remedial Investigation Report, they now are considering it a Site Inspection Report. DTSC has concluded that risks for Site 39 are below action levels and

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concur with a No Further Action for this site. For Site 270, the site qualifies for NFA for chemical contamination; however the Air Force never completed a subsurface investigation for MEC that may have been derived from Site 270 activities because the site is in the active PIRA bombing range. The Air Force will maintain active range health protections (restricting on-site access) and will conduct a munitions investigation should the site ever become deactivated from the range operations.

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: Site 25 Groundwater Monitoring Report for 2016

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
Completed Document Type: Site Characterization Workplan

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

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: Site Characterization Workplan
Completed Date: 04/22/2019
Comments: Work Plan for Vapor Intrusion Assessment at Buildings 1808, 1810, 1820, 1830, 3500, and 4221

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: 8 - 25 Operable Unit - 8 - Site 25 Exotic Fuels
Completed Sub Area Name: Site 25
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/27/2019
Comments: Site 25 Integrated Workplan Memorandum for High-Resolution Characterization

Completed Area Name: 2 - Operable Unit 2, South Base
Completed Sub Area Name: Site 5
Completed Document Type: Technical Report
Completed Date: 03/29/2019
Comments: Final Version included as Attachment 1 to Site 5 CT Plume Delineation Well Construction Completion Report (29 March 2019).

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Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Enforceable Schedule
Completed Date: 10/10/2019
Comments: 2019 Update to the FFA Schedule

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/23/2019
Comments: Evaluation of Long-Screen Wells influence on water level (potentiometric surface) contouring. DTSC provided input in comments on the 2017 OU 1/8 GMR.

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: 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: 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.

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: 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

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

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 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

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

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.

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

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: 4/9 - Northeast AFRL
Future Sub Area Name: Not reported
Future Document Type: Proposed Plan
Future Due Date: 2023
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: 7 - Operable Unit 7, Basewide Misc.
Future Sub Area Name: Not reported

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Future Document Type:	Proposed Plan
Future Due Date:	2024
Future Area Name:	2 - Operable Unit 2, South Base
Future Sub Area Name:	Site 5
Future Document Type:	Feasibility Study Report
Future Due Date:	2020
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Site Characterization Report
Future Due Date:	2021
Future Area Name:	1 - Operable Unit 1, Main Base Flightline
Future Sub Area Name:	Not reported
Future Document Type:	Feasibility Study Report
Future Due Date:	2021
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:	2 - Operable Unit 2, South Base - MULTIPLE SITES
Future Sub Area Name:	Not reported
Future Document Type:	Record of Decision
Future Due Date:	2021
Future Area Name:	6 - Operable Unit 6, NASA Dryden
Future Sub Area Name:	Not reported
Future Document Type:	5 Year Review Reports
Future Due Date:	2021
Future Area Name:	6 - Operable Unit 6, NASA Dryden
Future Sub Area Name:	Not reported
Future Document Type:	Design/Implementation Workplan
Future Due Date:	2022
Future Area Name:	4/9 - South AFRL
Future Sub Area Name:	Not reported
Future Document Type:	Record of Decision w/ESD
Future Due Date:	2020
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2025
Schedule Area Name:	7 - Operable Unit 7, Basewide Misc.
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Record of Decision
Schedule Due Date:	12/31/2019
Schedule Revised Date:	08/03/2025
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:	11/02/2021
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:	09/14/2020
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Site Characterization Report
Schedule Due Date:	07/01/2017

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

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:	02/28/2020
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:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	5 Year Review Reports
Schedule Due Date:	10/24/2019
Schedule Revised Date:	01/29/2020
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:	05/28/2020
Schedule Area Name:	7 - Operable Unit 7, Basewide Misc.
Schedule Sub Area Name:	Site 3
Schedule Document Type:	Operations and Maintenance Report
Schedule Due Date:	12/20/2019
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:	01/30/2020
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:	03/15/2020
Schedule Area Name:	2 - Operable Unit 2, South Base - MULTIPLE SITES
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Operations and Maintenance Plan
Schedule Due Date:	06/29/2020
Schedule Revised Date:	Not reported

Calsite:

Name:	EDWARDS AIR FORCE BASE
Address:	470 SQ MI; 60 MI NE OF LOS ANGELES, CA
City:	EDWARDS
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

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

NPL: Listed
SIC Code: 97
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

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:	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

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

Facility ID:	15970001
Activity:	RIFS
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

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

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:	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

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

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:	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

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

AWP Code:	OU6
Proposed Budget:	0
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

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:	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

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

For Industrial Reuse:	0
For Residential Reuse:	0
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

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

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:	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

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:	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

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

Facility ID:	15970001
Activity:	PEA
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

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

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:	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

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

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:	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

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

AWP Code:	STE25
Proposed Budget:	0
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

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:	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

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

For Industrial Reuse:	0
For Residential Reuse:	0
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

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

Revised Due Date:	Not reported
Comments Date:	08021999
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

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:	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

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

Facility ID:	15970001
Activity:	PEA
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

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

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:	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

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

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:	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

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

Activity Name:	OPERATION & MAINTENANCE
AWP Code:	OU-6
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

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:	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

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:	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

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

AWP Completion Date:	06041998
Revised Due Date:	Not reported
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

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:	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

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

For Residential Reuse:	0
Unknown Type:	0
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

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

AWP Code:	SIT16
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):	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

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:	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

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:	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

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

Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported
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

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:	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

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:	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

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

Facility ID:	15970001
Activity:	ORDER
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

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

the National Priority List. A Federal Facility Agreement (FFA) b
etween Edwards, EPA, RWQCB, and DTSC was negotiated and became ef
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.

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

Comments Date:	02082001
Comments:	PEA - PRL13 -- Concurrence provided on PEA equivalent documents f
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

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

Comments:	uring January to August 2002, and 84 scfm during September to Dec
Comments Date:	06302003
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.

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

Comments Date:	09281999
Comments:	PEA - PRL9 -- Concurrence provided on PEA equivalent documents
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

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

Comments:	ater will be extracted and treated.
Comments Date:	12042000
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.

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

Comments Date:	05011986
Comments:	Records Search: Military air force base. Contaminants
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

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

Comments:	ess restriction and conducting long - term groundwater monitoring
Comments Date:	06041998
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

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

Comments Date:	06282002
Comments:	roject Managers for Operable Unit 1 - Main Base Flight Line Site
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:

Name:	EDWARDS AIR FORCE BASE - IR/MMRP
Address:	470 SQ MI; 60 MI NE OF LOS ANGELES, CA
City,State,Zip:	EDWARDS, CA 93523
Envirostor ID:	15970001
Area:	4A - AFRL AREA
Sub Area:	Not reported
Site Type:	FEDERAL SUPERFUND
Status:	ACTIVE

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

Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

Name: EDWARDS AIR FORCE BASE - IR/MMRP
Address: 470 SQ MI; 60 MI NE OF LOS ANGELES, CA
City,State,Zip: EDWARDS, CA 93523
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): Not reported
File Name: Envirostor Land Use Restrictions

ROD:
Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
RG: 9
Site ID: 902725
Action: FF ESD
Operable Unit Number: AFRL SOIL & DEBRIS (OU 4&9)
SEQ ID: 1
Action Completion: 2013-06-28 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
RG: 9
Site ID: 902725
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: SOUTH BASE
SEQ ID: 1
Action Completion: 2009-06-24 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
RG: 9
Site ID: 902725
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: BASEWIDE WELLS (HOMESTEAD)
SEQ ID: 2
Action Completion: 2003-09-30 00:00:00
NPL Status: Final
Non NPL Status: Not reported

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

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
RG: 9
Site ID: 902725
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: SOUTH AFRL GROUNDWATER
SEQ ID: 3
Action Completion: 2007-09-24 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
RG: 9
Site ID: 902725
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: NASA DRYDEN / ARMSTRONG
SEQ ID: 4
Action Completion: 2006-09-28 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
RG: 9
Site ID: 902725
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: CHEMICAL WEAPONS MATERIEL
SEQ ID: 5
Action Completion: 2009-09-16 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
RG: 9
Site ID: 902725
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: AFRL SOIL & DEBRIS (OU 4&9)
SEQ ID: 12
Action Completion: 2008-08-04 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
RG: 9

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

Site ID: 902725
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: SITE 3 LANDFILL
SEQ ID: 15
Action Completion: 2012-09-21 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: EDWARDS AIR FORCE BASE
Address: AFFTC EDWARDS AFB 5 EAST POPSON AVE, BLDG 2650A
City,State,Zip: EDWARDS AFB, CA 93524
EPA ID: CA1570024504
RG: 9
Site ID: 902725
Action: FF ROD Amendment
Operable Unit Number: SOUTH BASE
SEQ ID: 1
Action Completion: 2012-09-27 00:00:00
NPL Status: Final
Non NPL Status: Not reported

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

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

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: 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

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

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.

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

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

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
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

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

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
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

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

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:	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.

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:	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

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: 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

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: 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

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

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.

PRP:

EPAID:	CA1570024504
Site ID:	0902725
Name:	EDWARDS AIR FORCE BASE
Address:	AFFTC EDWARDS AFB
City,State,Zip:	EDWARDS AFB, CA 93524
NPL Status:	Currently on the Final NPL
NPL Status Short Name:	Not reported
PRP Name:	STATE OF CALIFORNIA/DEPT. OF HEALTH SERVICES
PRP Address:	10151 CROYDON WAY
PRP City:	SACRAMENTO,
PRP State:	CA
PRP Zip:	95827
Data Type:	GENERAL NOTICE
Action Date:	3/30/1990
Settlement Code:	NJ-1
Settlement:	Not Ltrs

PRP Name:	STATE OF CALIFORNIA/DEPT. OF WATER QUALITY
PRP Address:	P.O. BOX 100
PRP City:	SACRAMENTO,
PRP State:	CA
PRP Zip:	95801
Data Type:	GENERAL NOTICE
Action Date:	3/30/1990
Settlement Code:	NJ-1
Settlement:	Not Ltrs

PRP Name:	STATE OF CALIFORNIA/DEPT. OF WATER QUALITY
PRP Address:	15428 CIVIC DR., SUITE 100
PRP City:	VICTORVILLE,
PRP State:	CA
PRP Zip:	92392
Data Type:	GENERAL NOTICE
Action Date:	3/30/1990
Settlement Code:	NJ-1
Settlement:	Not Ltrs

PRP Name:	STATE OF CALIFORNIA/DEPT. OF HEALTH SERVICES
PRP Address:	400 P ST., RM 4480
PRP City:	SACRAMENTO,
PRP State:	CA
PRP Zip:	95814
Data Type:	GENERAL NOTICE
Action Date:	3/30/1990
Settlement Code:	NJ-1
Settlement:	Not Ltrs

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

PRP Name: U.S. AIR FORCE
PRP Address: AFRCE-WD/ROV 630 SANSOME ST., RM 1316
PRP City: SAN FRANCISCO
PRP State: CA
PRP Zip: 94111
Data Type: GENERAL NOTICE
Action Date: 3/30/1990
Settlement Code: NJ-1
Settlement: Not Ltrs

PRP Name: U.S. AIR FORCE
PRP Address: 6500 ABW/CC
PRP City: EDWARDS AFB
PRP State: CA
PRP Zip: 93523
Data Type: GENERAL NOTICE
Action Date: 3/30/1990
Settlement Code: NJ-1
Settlement: Not Ltrs

PRP Name: U.S. EPA
PRP Address: 401 M. ST., S.W.
PRP City: WASHINGTON,
PRP State: DC
PRP Zip: 20460
Data Type: GENERAL NOTICE
Action Date: 3/30/1990
Settlement Code: NJ-1
Settlement: Not Ltrs

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

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

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
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)

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

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
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

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

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

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

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: 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
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

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: 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)
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)

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

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
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

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: 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

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

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: 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
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

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: 1999-04-15 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)
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)

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: 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
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

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: 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

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

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: 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
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

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

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
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

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

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
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

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

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

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

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: 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
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

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: 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
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

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

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
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

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

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

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

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: 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
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

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 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
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

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

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
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

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: 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

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

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: 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
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

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: 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
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

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

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
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

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: 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

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

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: 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
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

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: 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
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

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

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
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

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: 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

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

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: 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
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

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: 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
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

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

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
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

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: 2010-10-05 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

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

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: 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
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

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: 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
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

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

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
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

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: 2014-06-06 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

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

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: 2014-06-06 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
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

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: 2015-05-21 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
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

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

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
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

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

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

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

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: 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
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

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: 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
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

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

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
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

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

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

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

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: 2004-08-24 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
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

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: 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
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

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

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
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

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

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

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

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: 2011-09-15 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
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

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: 2012-10-06 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
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

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

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
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

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

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

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

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: 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:
Envirostor ID: 3000601
Name: EDWARDS AIR FORCE BASE
Address: 5 E POPSON AVE
City,State,Zip: EDWARDS, CA 93524
EPA ID: CA1570024504
Site Type: INSPECTION
Facility Status: Out of Compliance

Inspection:
Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 12/03/2019
Violation Class: Minor
RTC Date: Not reported

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

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

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
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

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

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

PFAS:
Name: EDWARDS AIR FORCE BASE - IR/MMRP
Address: 470 SQ MI; 60 MI NE OF LOS ANGELES
City,State,Zip: EDWARDS, CA 93523
Envirostor ID: 15970001
Program Type: FEDERAL SUPERFUND - LISTED
Status: ACTIVE - LAND USE RESTRICTIONS
Status Date: 05/01/1986
Enviroscreen Score: 46-50%
Site Code: 100052
Global ID: Not reported
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: Envirostor
Latitude: 34.906044444
Longitude: -117.88250833
Geo Tracker URL: Not reported

1
NNE
1/4-1/2
0.287 mi.
1514 ft.

FEDERAL PRISON CAMP
HWY 395
BORON, CA 93516

LUST **1000214127**
HIST UST **N/A**
Cortese
HIST CORTESE

Actual:
2478 ft.

Focus Map:
7

LUST Region 6V:

Name:	FEDERAL PRISON CAMP
Address:	HWY 395
City:	BORON
Region:	6V
Case Number:	6B1500139T
Leak Record:	1/11/1990
Report Date:	10/27/1989
Reported By Address:	Not reported
Responsible Party:	FEDERAL PRISON CAMP
Operator:	FED GOVT
Cross Street:	6 MI NORTH OF HWY 58
Local Agency:	15000L
Regional Board:	6V
Chemical:	Regular Gasoline
Case Type:	Soil only
Funding:	Not reported
Enforce Type:	SEL
How Found:	Tank Closure
How Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Global ID:	T0602900834
Stop Date:	9/29/1989
Leak Confirm:	1/11/1990
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:	9/29/1989
Enforce Date:	Not reported
Review Date:	1/11/1990
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:	Leak being confirmed
Contact:	Not reported
Interim Action:	Not reported
Pilot Program:	LOP
Lat/Long:	35 / -117.6589265
Staff Initials:	GDC
Local Agency Staff:	SBC
Lead Agency:	Local Agency
Summary:	Not reported

FEDERAL PRISON CAMP (Continued) **1000214127**

Basin Number: ANTELOPE VALLEY (6-4
Beneficial: Not reported
Priority: Not reported
UST Cleanup Fund ID: Not reported
Suspended: Not reported
Local Case Number: Not reported
Amount: Not reported
Abate Method: Not reported
Water System: Not reported
Well Name: Not reported
Distance: 12685.89837
Wst Disch Reqrmnt Global ID: Not reported
Wst Disch Reqrmnt Name: Not reported

HIST UST:
Name: FEDERAL PRISON CAMP
Address: PO BOX 500
City,State,Zip: BORON, CA 93516
File Number: 00029A84
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029A84.pdf
Region: STATE
Facility ID: 00000068870
Facility Type: Other
Other Type: FEDERAL PRISON CAMP
Contact Name: STEVE BRECKENRIDGE
Telephone: 6197625161
Owner Name: BUREAU OF PRISONS, FEDERAL PRI
Owner Address: P.O. BOX 500
Owner City,St,Zip: BORON, CA 93516-500
Total Tanks: 0002

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00003000
Tank Used for: WASTE
Type of Fuel: 1
Container Construction Thickness: X
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 101
Year Installed: 1951
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Click here for Geo Tracker PDF:

CORTESE:
Name: FEDERAL PRISON CAMP
Address: HWY 395
City,State,Zip: BORON, CA 93516
Region: CORTESE

FEDERAL PRISON CAMP (Continued) **1000214127**

Envirostor Id:	Not reported
Global ID:	T0602900834
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	FEDERAL PRISON CAMP
edr_fadd1:	HWY 395
City,State,Zip:	BORON, CA 93516
Region:	CORTESE
Facility County Code:	15
Reg By:	LTNKA
Reg Id:	6B1500139T

---

2 **FOUR CORNERS UNOCAL** **HIST CORTESE** **S105024313**
NNE **HWY 395 & HWY 58** **N/A**
1/4-1/2 **KRAMER JCT, CA 93516**
0.298 mi.
1572 ft.

Actual:
2477 ft.

Focus Map:
7

HIST CORTESE:

edr_fname:	FOUR CORNERS UNOCAL
edr_fadd1:	HWY 395 & HWY 58
City,State,Zip:	KRAMER JCT, CA 93516
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	6B3600205T

---

3 **CALTRANS BEECHERS MAINTENANCE STATION** **SWF/LF** **S111290842**
NNE **40400 JCT US 395** **CERS** **N/A**
1/4-1/2 **BORON, CA**
0.356 mi.
1878 ft.

Actual:
2475 ft.

Focus Map:
7

SWF/LF (SWIS):

Name:	CALTRANS BEECHERS MAINTENANCE STATION
Address:	40400 JCT US 395
City,State,Zip:	BORON, CA
Facility ID:	36-AA-0468

CALTRANS BEECHERS MAINTENANCE STATION (Continued) **S111290842**

Lat/Long:	34.9926 / -117.54209
Owner Name:	Caltrans North District 8
Owner Telephone:	9093834268
Owner Address:	Not reported
Owner Address2:	175 W. Cluster St.
Owner City,St,Zip:	San Bernardino, CA 92408
Operational Status:	Active
Operator:	Beechers Maintenance Crew 08-614
Operator Phone:	7607625258
Operator Address:	Not reported
Operator Address2:	40400 Jct US 395
Operator City,St,Zip:	Boron, CA 93516
Permit Date:	09/01/2011
Permit Status:	Notification
Permitted Acreage:	$7.20
Activity:	Limited Volume Transfer Operation
Regulation Status:	Notification
Landuse Name:	Not reported
GIS Source:	Map
Category:	Transfer/Processing
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Mixed municipal,Tires
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	36-AA-0468
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	60
Actual Throughput with Units:	Cu Yards/day
Permitted Capacity with Units:	15600
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Cu Yards/year
Lat/Long:	34.9926 / -117.54209

CERS:

Name:	CALTRANS BEECHERS MAINTENANCE STATION
Address:	40400 JCT US 395
City,State,Zip:	BORON, CA
Site ID:	507394
CERS ID:	36-AA-0468
CERS Description:	Solid Waste and Recycle Sites

Affiliation:

Affiliation Type Desc:	Legal Operator
Entity Name:	Beechers Maintenance Crew 08-614
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Boron
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	93516
Affiliation Phone:	7607625258

Affiliation Type Desc:	Legal Owner
Entity Name:	Caltrans North District 8

CALTRANS BEECHERS MAINTENANCE STATION (Continued) **S111290842**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92408
Affiliation Phone:	9093834268

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4 **BORON CLASS III LANDFILL** **WMUDS/SWAT** **S101612513**
North **5 MI SO OF BORON** **LDS** **N/A**
1/4-1/2 **BORON, CA 93516** **ENF**
0.456 mi. **WDS**
2408 ft. **CIWQS**
CERS

Actual:
2506 ft.

Focus Map:
3

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.
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

BORON CLASS III LANDFILL (Continued) **S101612513**

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
Solid Waste Information ID: 15-AA-0045

LDS:
Name: BORON CLASS III LANDFILL
Address: 5 MI SO OF BORON
City,State,Zip: BORON, CA 93516

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: AL
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:
Name: BORON CLASS III LANDFILL
Address: 5 MI SO OF BORON
City,State,Zip: BORON, CA 93516
Region: Not reported
Facility Id: 210078
Agency Name: Not reported

BORON CLASS III LANDFILL (Continued) **S101612513**

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
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

BORON CLASS III LANDFILL (Continued) **S101612513**

Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	403552
Region:	Not reported
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
Total $ Paid/Completed Amount:	0

Name:	BORON CLASS III LANDFILL
Address:	5 MI SO OF BORON
City,State,Zip:	BORON, CA 93516
Region:	Not reported
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

BORON CLASS III LANDFILL (Continued) **S101612513**

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:	Not reported
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
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:	Not reported
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

BORON CLASS III LANDFILL (Continued) **S101612513**

	achieved 01/06/2003
Program:	LFOPER
Latest Milestone Completion Date:	1/6/2003
# 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:

Name:	BORON CLASS III LANDFILL
Address:	5 MI SO OF BORON
City:	BORON
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 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.

BORON CLASS III LANDFILL (Continued) **S101612513**

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.
Name:	BORON CLASS III LANDFILL
Address:	5 MI SO OF BORON
City:	BORON
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
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:

Name:	BORON CLASS III LANDFILL
Address:	5 MI SO OF BORON
City,State,Zip:	BORON, CA 93516
Agency:	Kern County Public Works Department
Agency Address:	2700 M Street 500, Bakersfield, CA 93301-2372
Place/Project Type:	Land fill

BORON CLASS III LANDFILL (Continued) **S101612513**

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:	12
Latitude:	34.99028
Longitude:	-117.6475

Name:	BORON CLASS III LANDFILL
Address:	5 MI SO OF BORON
City,State,Zip:	BORON, CA 93516
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
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.99942
Longitude:	-117.64978

CERS:

Name:	BORON CLASS III LANDFILL
Address:	5 MI SO OF BORON
City,State,Zip:	BORON, CA 93516
Site ID:	99657
CERS ID:	L10004638786
CERS Description:	Land Disposal Site

Violations:

BORON CLASS III LANDFILL (Continued) **S101612513**

Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	02-11-2014
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Failed to sample from lysimeter B01-02. Violated Board Order 6-02-0052 (MRP II.B.2)
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS

Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	06-10-1999
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	REPORT WAS LATE DUE 90 DAYS AFTER THE END OF THE LAST QUARTER OF THE YEAR
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS

Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	01-31-2007
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Failed to submit report by 01/30/2007
Violation Division:	Water Boards
Violation Program:	LNDISP
Violation Source:	CIWQS

Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	06-10-1999
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	REPORT WAS SUBMITTED LATE, DUE BY THE 45TH DAY FOLLOWING THE END OF THE QUARTER
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS

Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	04-25-2002
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Threatened discharge of radioactive constituents from landfilled waste.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS

Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	07-31-2006

BORON CLASS III LANDFILL (Continued) **S101612513**

Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Failed to submit report by 07/30/2006
Violation Division:	Water Boards
Violation Program:	LNDISP
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	02-11-2014
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Sulfate concentration exceeded WQPS in ground water well B01-08. Violated Board Order 6-02-0052 (MRP II.C.1.c)
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	11-05-2009
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Chloride Well BO1-07 WQPS: 176.6mg/L, Reading: 190mg/L. Chloride Well BO1-10 WQPS: 183.4mg/L, Reading: 190mg/L. Sulfate Well BO1-06 WQPS: 226mg/L, Reading: 230mg/L. Sulfate Well BO1-07 WQPS: 231.7mg/L, Reading: 240mg/L. TDS Well BO1-07 WQPS: 980mg/L, Reading: 1100mg/L. TDS Well BO1-08 WQPS: 891mg/L, Reading: 1000mg/L. TDS Well BO1-10 WQPS
Violation Division:	Water Boards
Violation Program:	LNDISP
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	02-11-2014
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Chloroform detected above PQL in sample pulled from unsaturated zone lysimeter B01-05.Violated Board Order 6-02-0052 (MRP II.C.2.c)
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	07-06-2010
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Exceeded Chloride (176.7 mg/L) in BO1-07 and Dichlorodifluoromethane (0.5 ug/L) in BO1-06 WQPS limits, violates Board Order R6V-2002-052 MRP I. A. 1. b.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill

BORON CLASS III LANDFILL (Continued) **S101612513**

Violation Date:	08-19-2015
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Failed to provide results for parameters related to the Corrective Action Monitoring Program. Violates Board Order R6V-2002-052, WDR section IV.C. 1 and MRP section IV.A.1.a.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	05-19-2006
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Failed to submit report by 04/30/2006
Violation Division:	Water Boards
Violation Program:	LNDISP
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	08-24-1994
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	DID NOT SUBMIT PHOTOS OF LANDFILL, VIOLATIO OF DISPOSAL AREA USED % OF TOTAL VOLUME USED FOR WASTE DISPOSAL IN 2ND QUARTER 1994 SMR
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	02-26-2019
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Vacuum was not applied on the system pressure line for each lysimeter to 70-80 centibars for at least 24 hours.. Violates Board Order R6V-2016-0004, MRP section II.A.2.c.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	12-28-2009
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	(1) Exceeded Chloride WQPS (176.7 mg/L) in BO1-07. (2) Exceeded TDS WQPS (891 mg/L) in BO1-08. (3) Exceeded dichlorodifluoromethane WQPS (0.5 ug/L) in BO1-06. Violates board order R6V-2002-052 (1) WDR I. A. 4., (2) WDR I. A. 2, (3) WDR II. A. 9.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657

BORON CLASS III LANDFILL (Continued) **S101612513**

Site Name: Boron Class III Landfill
Violation Date: 09-14-2012
Citation: California Water Code
Violation Description: Not reported
Violation Notes: bis-(2-Ethylhexyl)phthalate (WQPS 4 ug/L) was found in a concentration that exceeds the WQPS limits. Violates Board Order WDR I.A.2.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 08-20-2019
Citation: California Water Code
Violation Description: Not reported
Violation Notes: (1) Exceeded MDL of Trichlorofluoromethane during the 1st half semi-annual monitoring period. Violates Board Order R6V-2016-0004 MRP I.C.2 (2) Exceeded WQPS of Chloride, Sulfate, and TDS during the 1st half semi-annual monitoring period. Violates Board Order R6V-2016-0004 WDR III.D.2
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 10-31-2006
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failed to submit report by 10/30/2006
Violation Division: Water Boards
Violation Program: LNDISP
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 06-10-1999
Citation: California Water Code
Violation Description: Not reported
Violation Notes: REPORT WAS LATE, DUE 45 DAYS FOLLOWING END OF QUARTER
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 03-04-2014
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Exceeded WQPS concentration limits establish in 2001 for TDS. Violated Board Order 2002-052 (MRP II.C.1.c)
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill

BORON CLASS III LANDFILL (Continued) **S101612513**

Violation Date:	03-26-2009
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Well BO1-07 slightly exceeded the WQPS limit (176.7 mg/L) with a measurement of 180 mg/L.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	08-20-2019
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Vacuum was not applied on the system pressure line for each lysimeter to 70-80 centibars for at least 24 hours. Violates Board Order R6V-2016-0004 MRP II.A.2.c.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	02-02-2011
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Exceeded WQPS for chloride, TDS, dichlorodifluoromethane and tetrachloroethene, violates board order 6-02-0052 WDR I. A. 2.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	04-09-2019
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	(1) Exceeded MDL for Trichlorofluoromethane during Semi-annual 2H 2018 monitoring period. Violates R6V-2016-0004, MRP I.C.2 (2) Exceeded WQPS for Chloride, Sulfate, and Total Dissolved Solids during Semi-annual 2H 2018 monitoring period. Violates R6V-2016-0004, WDR III.D.2
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	02-26-2019
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Exceeded the Water Quality Protection Standard for chloride (220 mg/L), sulfate (230 mg/L) in one well (B01-06), and total dissolved solids (955, 891, and 910 mg/L) in three wells (B01-06, B01-08, B01-10) during the second semi-annual 2018 monitoring period. Violates Board Order R6V-2016-0004, WDR section III.D.2.
Violation Division:	Water Boards
Violation Program:	LFOPER

BORON CLASS III LANDFILL (Continued) **S101612513**

Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 11-01-2018
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Exceeded the Water Quality Protection Standard for chloride (220 mg/L), sulfate (230 mg/L), and total dissolved solids (955 mg/L) in one well (B01-06) during the first semi-annual 2018 monitoring period. Violates Board Order R6V-2016-0004, WDR section III.D.2.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 05-19-2006
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failed to submit report by 07/30/2005
Violation Division: Water Boards
Violation Program: LNDISP
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 06-10-1999
Citation: California Water Code
Violation Description: Not reported
Violation Notes: REPORT WAS LATE, DUE BY THE 45TH DAY AFTER THE END OF THE QUARTER
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 03-08-2013
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Chloride WQPS: 176.7mg/L; MCL: 250mg/L. BO1-07: 180mg/L.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 04-14-2011
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Exceeded WQPS for dichlorodifluoromethane (0.099 ug/L), tetrachloroethene (0.13 ug/L) and trichlorofluoromethane (0.13 ug/L), violates board order 6-02-0052 WDR I. A. 2.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

BORON CLASS III LANDFILL (Continued) **S101612513**

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 06-17-2009
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Exceeded primary groundwater MCLs for chloride and sulfate in multiple wells. Board Order No. R6V-2002-052 Req. I. A. 2.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 06-20-2005
Citation: California Water Code
Violation Description: Not reported
Violation Notes: SUBMITTED LATE, WDR 45 DAYS PAST END OF QUARTER
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 06-14-1999
Citation: California Water Code
Violation Description: Not reported
Violation Notes: FIRST QUARTER 99 MONITORING REPORT WAS LATE, DUE 45 DAYS FOLLOWING END QUARTER.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 05-19-2006
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failed to submit report by 02/14/2006
Violation Division: Water Boards
Violation Program: LNDISP
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 06-25-2008
Citation: California Water Code
Violation Description: Not reported
Violation Notes: 3/17/08 Well BO 1-07 slightly exceed the WQPS limit of 177 mg/L for chloride with a chloride concentration of 180 mg/L.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 08-23-2010
Citation: California Water Code

BORON CLASS III LANDFILL (Continued) **S101612513**

Violation Description: Not reported
Violation Notes: Exceeded WQPS for chloride (176.7 mg/L for B01-07) and dichlorodifluoromethane (0.5 ug/L in B01-06), violates board order 6-02-0052 WDR I. A. 2.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 03-20-1996
Citation: California Water Code
Violation Description: Not reported
Violation Notes: PONDING OF RAINWATER IN SOME AREAS. EROSION OF COVER AND EXPOSURE OF WASTE ON NORTH FACE.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-03-2010
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2017
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-22-2014
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-24-2018
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Other/Unknown

BORON CLASS III LANDFILL (Continued) **S101612513**

Eval Date:	02-08-2001
Violations Found:	No
Eval Type:	Miscellaneous Inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-02-2000
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-21-2003
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS
Eval General Type:	Compliance Sampling Inspection
Eval Date:	11-13-2007
Violations Found:	No
Eval Type:	RWQCB Type A compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-29-2009
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-24-1995
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection
Eval Notes:	Not reported
Eval Division:	Water Boards
Eval Program:	LFOPER
Eval Source:	CIWQS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-31-1999
Violations Found:	No
Eval Type:	RWQCB Type B compliance inspection

BORON CLASS III LANDFILL (Continued) **S101612513**

Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-02-2013
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-04-1997
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-1998
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-21-1994
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Sampling Inspection
Eval Date: 11-06-2001
Violations Found: No
Eval Type: RWQCB Type A compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-20-1996
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER

BORON CLASS III LANDFILL (Continued) **S101612513**

Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2012
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-12-2015
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Sampling Inspection
Eval Date: 11-05-1996
Violations Found: No
Eval Type: RWQCB Type A compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Enforcement Action:
Site ID: 99657
Site Name: Boron Class III Landfill
Site Address: 5 MI SO OF BORON
Site City: BORON
Site Zip: 93516
Enf Action Date: 09-06-2002
Enf Action Type: Enforcement Letter (Formal)
Enf Action Description: Enforcement Letter Citing Violations and with Required Actions (Formal)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: LFOPER
Enf Action Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Site Address: 5 MI SO OF BORON
Site City: BORON
Site Zip: 93516
Enf Action Date: 11-03-2015
Enf Action Type: Oral Communication
Enf Action Description: Oral Communication
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: LFOPER
Enf Action Source: CIWQS

BORON CLASS III LANDFILL (Continued) **S101612513**

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	TIFFANY STEINERT - LAHONTAN RWQCB (REGION 6V)
Entity Title:	Not reported
Affiliation Address:	15095 Amargosa Road, Building 2, Suite 210
Affiliation City:	Victorville
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7602417305

Affiliation Type Desc:	Operator
Entity Name:	Kern County Public Works Department
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Name:	BORON CLASS III LANDFILL
Address:	5 MI SO OF BORON
City,State,Zip:	BORON, CA 93516
Site ID:	99657
CERS ID:	210078
CERS Description:	Land Disposal

Violations:

Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	02-11-2014
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Failed to sample from lysimeter B01-02. Violated Board Order 6-02-0052 (MRP II.B.2)
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS

Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	06-10-1999
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	REPORT WAS LATE DUE 90 DAYS AFTER THE END OF THE LAST QUARTER OF THE YEAR
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS

Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	01-31-2007
Citation:	California Water Code
Violation Description:	Not reported

BORON CLASS III LANDFILL (Continued) **S101612513**

Violation Notes: Failed to submit report by 01/30/2007
Violation Division: Water Boards
Violation Program: LNDISP
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 06-10-1999
Citation: California Water Code
Violation Description: Not reported
Violation Notes: REPORT WAS SUBMITTED LATE, DUE BY THE 45TH DAY FOLLOWING THE END OF THE QUARTER
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 04-25-2002
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Threatened discharge of radioactive constituents from landfilled waste.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 07-31-2006
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failed to submit report by 07/30/2006
Violation Division: Water Boards
Violation Program: LNDISP
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 02-11-2014
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Sulfate concentration exceeded WQPS in ground water well B01-08. Violated Board Order 6-02-0052 (MRP II.C.1.c)
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 11-05-2009
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Chloride Well BO1-07 WQPS: 176.6mg/L, Reading: 190mg/L. Chloride Well BO1-10 WQPS: 183.4mg/L, Reading: 190mg/L. Sulfate Well BO1-06 WQPS: 226mg/L, Reading: 230mg/L. Sulfate Well BO1-07 WQPS: 231.7mg/L, Reading: 240mg/L. TDS Well BO1-07 WQPS: 980mg/L, Reading: 1100mg/L.

BORON CLASS III LANDFILL (Continued) **S101612513**

TDS Well BO1-08 WQPS: 891mg/L, Reading: 1000mg/L. TDS Well BO1-10 WQPS
Violation Division: Water Boards
Violation Program: LNDISP
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 02-11-2014
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Chloroform detected above PQL in sample pulled from unsaturated zone lysimeter B01-05.Violated Board Order 6-02-0052 (MRP II.C.2.c)
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 07-06-2010
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Exceeded Chloride (176.7 mg/L) in BO1-07 and Dichlorodifluoromethane (0.5 ug/L) in BO1-06 WQPS limits, violates Board Order R6V-2002-052 MRP I. A. 1. b.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 08-19-2015
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failed to provide results for parameters related to the Corrective Action Monitoring Program. Violates Board Order R6V-2002-052, WDR section IV.C. 1 and MRP section IV.A.1.a.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 05-19-2006
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failed to submit report by 04/30/2006
Violation Division: Water Boards
Violation Program: LNDISP
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 08-24-1994
Citation: California Water Code
Violation Description: Not reported
Violation Notes: DID NOT SUBMIT PHOTOS OF LANDFILL, VIOLATIO OF DISPOSAL AREA USED % OF TOTAL VOLUME USED FOR WASTE DISPOSAL IN 2ND QUARTER 1994 SMR

BORON CLASS III LANDFILL (Continued) **S101612513**

Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 02-26-2019
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Vacuum was not applied on the system pressure line for each lysimeter to 70-80 centibars for at least 24 hours.. Violates Board Order R6V-2016-0004, MRP section II.A.2.c.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 12-28-2009
Citation: California Water Code
Violation Description: Not reported
Violation Notes: (1) Exceeded Chloride WQPS (176.7 mg/L) in BO1-07. (2) Exceeded TDS WQPS (891 mg/L) in BO1-08. (3) Exceeded dichlorodifluoromethane WQPS (0.5 ug/L) in BO1-06. Violates board order R6V-2002-052 (1) WDR I. A. 4., (2) WDR I. A. 2, (3) WDR II. A. 9.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 09-14-2012
Citation: California Water Code
Violation Description: Not reported
Violation Notes: bis-(2-Ethylhexyl)phthalate (WQPS 4 ug/L) was found in a concentration that exceeds the WQPS limits. Violates Board Order WDR I.A.2.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 08-20-2019
Citation: California Water Code
Violation Description: Not reported
Violation Notes: (1) Exceeded MDL of Trichlorofluoromethane during the 1st half semi-annual monitoring period. Violates Board Order R6V-2016-0004 MRP I.C.2 (2) Exceeded WQPS of Chloride, Sulfate, and TDS during the 1st half semi-annual monitoring period. Violates Board Order R6V-2016-0004 WDR III.D.2
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 10-31-2006

BORON CLASS III LANDFILL (Continued) **S101612513**

Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Failed to submit report by 10/30/2006
Violation Division:	Water Boards
Violation Program:	LNDISP
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	06-10-1999
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	REPORT WAS LATE, DUE 45 DAYS FOLLOWING END OF QUARTER
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	03-04-2014
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Exceeded WQPS concentration limits establish in 2001 for TDS. Violated Board Order 2002-052 (MRP II.C.1.c)
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	03-26-2009
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Well BO1-07 slightly exceeded the WQPS limit (176.7 mg/L) with a measurement of 180 mg/L.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	08-20-2019
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Vacuum was not applied on the system pressure line for each lysimeter to 70-80 centibars for at least 24 hours. Violates Board Order R6V-2016-0004 MRP II.A.2.c.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	02-02-2011
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Exceeded WQPS for chloride, TDS, dichlorodifluoromethane and

BORON CLASS III LANDFILL (Continued) **S101612513**

tetrachloroethene, violates board order 6-02-0052 WDR I. A. 2.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 04-09-2019
Citation: California Water Code
Violation Description: Not reported
Violation Notes: (1) Exceeded MDL for Trichlorofluoromethane during Semi-annual 2H 2018 monitoring period. Violates R6V-2016-0004, MRP I.C.2 (2) Exceeded WQPS for Chloride, Sulfate, and Total Dissolved Solids during Semi-annual 2H 2018 monitoring period. Violates R6V-2016-0004, WDR III.D.2
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 02-26-2019
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Exceeded the Water Quality Protection Standard for chloride (220 mg/L), sulfate (230 mg/L) in one well (B01-06), and total dissolved solids (955, 891, and 910 mg/L) in three wells (B01-06, B01-08, B01-10) during the second semi-annual 2018 monitoring period. Violates Board Order R6V-2016-0004, WDR section III.D.2.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 11-01-2018
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Exceeded the Water Quality Protection Standard for chloride (220 mg/L), sulfate (230 mg/L), and total dissolved solids (955 mg/L) in one well (B01-06) during the first semi-annual 2018 monitoring period. Violates Board Order R6V-2016-0004, WDR section III.D.2.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 05-19-2006
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failed to submit report by 07/30/2005
Violation Division: Water Boards
Violation Program: LNDISP
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill

BORON CLASS III LANDFILL (Continued) **S101612513**

Violation Date:	06-10-1999
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	REPORT WAS LATE, DUE BY THE 45TH DAY AFTER THE END OF THE QUARTER
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	03-08-2013
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Chloride WQPS: 176.7mg/L; MCL: 250mg/L. BO1-07: 180mg/L.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	04-14-2011
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Exceeded WQPS for dichlorodifluoromethane (0.099 ug/L), tetrachloroethene (0.13 ug/L) and trichlorofluoromethane (0.13 ug/L), violates board order 6-02-0052 WDR I. A. 2.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	06-17-2009
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	Exceeded primary groundwater MCLs for chloride and sulfate in multiple wells. Board Order No. R6V-2002-052 Req. I. A. 2.
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	06-20-2005
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	SUBMITTED LATE, WDR 45 DAYS PAST END OF QUARTER
Violation Division:	Water Boards
Violation Program:	LFOPER
Violation Source:	CIWQS
Site ID:	99657
Site Name:	Boron Class III Landfill
Violation Date:	06-14-1999
Citation:	California Water Code
Violation Description:	Not reported
Violation Notes:	FIRST QUARTER 99 MONITORING REPORT WAS LATE, DUE 45 DAYS FOLLOWING END

BORON CLASS III LANDFILL (Continued) **S101612513**

QUARTER.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 05-19-2006
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Failed to submit report by 02/14/2006
Violation Division: Water Boards
Violation Program: LNDISP
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 06-25-2008
Citation: California Water Code
Violation Description: Not reported
Violation Notes: 3/17/08 Well BO 1-07 slightly exceed the WQPS limit of 177 mg/L for chloride with a chloride concentration of 180 mg/L.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 08-23-2010
Citation: California Water Code
Violation Description: Not reported
Violation Notes: Exceeded WQPS for chloride (176.7 mg/L for B01-07) and dichlorodifluoromethane (0.5 ug/L in B01-06), violates board order 6-02-0052 WDR I. A. 2.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Violation Date: 03-20-1996
Citation: California Water Code
Violation Description: Not reported
Violation Notes: PONDING OF RAINWATER IN SOME AREAS. EROSION OF COVER AND EXPOSURE OF WASTE ON NORTH FACE.
Violation Division: Water Boards
Violation Program: LFOPER
Violation Source: CIWQS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-03-2010
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER

BORON CLASS III LANDFILL (Continued) **S101612513**

Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2017
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-22-2014
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-24-2018
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Other/Unknown
Eval Date: 02-08-2001
Violations Found: No
Eval Type: Miscellaneous Inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-02-2000
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-21-2003
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Sampling Inspection

BORON CLASS III LANDFILL (Continued) **S101612513**

Eval Date: 11-13-2007
Violations Found: No
Eval Type: RWQCB Type A compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-29-2009
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-24-1995
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-31-1999
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-02-2013
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-04-1997
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-1998
Violations Found: No
Eval Type: RWQCB Type B compliance inspection

BORON CLASS III LANDFILL (Continued) **S101612513**

Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-21-1994
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Sampling Inspection
Eval Date: 11-06-2001
Violations Found: No
Eval Type: RWQCB Type A compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-20-1996
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2012
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-12-2015
Violations Found: No
Eval Type: RWQCB Type B compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER
Eval Source: CIWQS

Eval General Type: Compliance Sampling Inspection
Eval Date: 11-05-1996
Violations Found: No
Eval Type: RWQCB Type A compliance inspection
Eval Notes: Not reported
Eval Division: Water Boards
Eval Program: LFOPER

BORON CLASS III LANDFILL (Continued) **S101612513**

Eval Source: CIWQS

Enforcement Action:
Site ID: 99657
Site Name: Boron Class III Landfill
Site Address: 5 MI SO OF BORON
Site City: BORON
Site Zip: 93516
Enf Action Date: 09-06-2002
Enf Action Type: Enforcement Letter (Formal)
Enf Action Description: Enforcement Letter Citing Violations and with Required Actions (Formal)
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: LFOPER
Enf Action Source: CIWQS

Site ID: 99657
Site Name: Boron Class III Landfill
Site Address: 5 MI SO OF BORON
Site City: BORON
Site Zip: 93516
Enf Action Date: 11-03-2015
Enf Action Type: Oral Communication
Enf Action Description: Oral Communication
Enf Action Notes: Not reported
Enf Action Division: Water Boards
Enf Action Program: LFOPER
Enf Action Source: CIWQS

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: TIFFANY STEINERT - LAHONTAN RWQCB (REGION 6V)
Entity Title: Not reported
Affiliation Address: 15095 Amargosa Road, Building 2, Suite 210
Affiliation City: Victorville
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7602417305

Affiliation Type Desc: Operator
Entity Name: Kern County Public Works Department
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

5
North
1/4-1/2
0.463 mi.
2445 ft.

Actual:
2503 ft.

Focus Map:
3

KERN COUNTY PUBLIC WORKS DEPARTMENT
11400 BORON AVENUE
BORON, CA 93516

SWF/LF **S104889754**
CERS HAZ WASTE **N/A**
Financial Assurance
HAZNET
CERS
HWTS

SWF/LF (SWIS):

Name:	BORON SANITARY LANDFILL
Address:	11400 BORON AVENUE
City,State,Zip:	BORON, CA
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:	Agricultural,Ash,Construction/demolition,Dead Animals,Green Materials,Industrial,Mixed municipal,Tires
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:	191380
Remaining Capacity with Units:	Cubic Yards
Lat/Long:	34.99028 / -117.6475

CERS HAZ WASTE:

Name:	KERN COUNTY PUBLIC WORKS DEPARTMENT - BORON LANDFILL
Address:	11400 BORON AVE
City,State,Zip:	BORON, CA 93516
Site ID:	41217
CERS ID:	10231186
CERS Description:	Hazardous Waste Generator

KERN COUNTY PUBLIC WORKS DEPARTMENT (Continued) **S104889754**

CA Financial Assurance 2:

Name:	BORON SANITARY LANDFILL
Address:	11400 BORON AVENUE
City,State,Zip:	BORON, CA
Region:	2
SWIS_NO:	15-AA-0045
Closure Approved:	Yes
Closure Inf Coverage Date:	05/29/2015
Closure Plan Coverage:	1305360
Closure Plan Date:	11/01/2018
PostClose Approved:	Yes
PostClose Adequacy Date:	11/01/2018
PostClose Inf Coverage:	1164510
PostClose Inf Coverage Date:	05/29/2015
CorActCoverage:	234898
CorActApproved:	Yes
CorAct Mec Adequacy Date:	Not reported
CorAct Inf Coverage:	234898
CorActPlanCoverage:	228007
CorAct Plan Date:	05/15/2013
Lia Coverage:	3000000
Lia Approved:	Yes
Review:	01/22/2016
Closure Mechanism A:	ENTERPRISE FUND
Closure Mechanism B:	Not reported
Closure Coverage:	1078524
Closure Adequacy:	Not reported
Closure Inflation Estimate:	1270198
Post Closure Mechanism A:	PLEDGE OF REVENUE
Post Closure Established A:	04/05/1994
Post Closure Mechanism B:	Not reported
Post Closure Coverate:	1164510
Post Closure Adequacy:	Not reported
Corrective Action Extablished A:	09/11/2012
Corrective Actiont Coverage:	234898
Corrective Action Approved:	Yes
Corrective Action Inflation Estimate:	234898
Corrective Action Inflationdate:	05/29/2015
Corrective Action Plan Estimate:	228007
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
Responsible Party:	Not reported
Provider:	Not reported
Contact:	Not reported

KERN COUNTY PUBLIC WORKS DEPARTMENT (Continued) **S104889754**

HAZNET:

Name:	KERN COUNTY PUBLIC WORKS DEPARTMENT
Address:	11400 BORON AVENUE
Address 2:	Not reported
City,State,Zip:	BORON, CA 93516
Contact:	LYNETTE BEURMANN
Telephone:	8058612159
Mailing Name:	Not reported
Mailing Address:	2700 M STREET
Year:	2016
Gepaid:	CAH111000199
TSD EPA ID:	CAH111000385
CA Waste Code:	612 - Household waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.625

CERS:

Name:	BORON SANITARY LANDFILL
Address:	11400 BORON AVENUE
City,State,Zip:	BORON, CA 93516
Site ID:	455274
CERS ID:	110012695299
CERS Description:	US EPA Air Emission Inventory System (EIS)
Name:	BORON SANITARY LANDFILL
Address:	11400 BORON AVENUE
City,State,Zip:	BORON, CA
Site ID:	507168
CERS ID:	15-AA-0045
CERS Description:	Solid Waste and Recycle Sites

Affiliation:

Affiliation Type Desc:	Legal Operator
Entity Name:	Kern County Public Works Department
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Bakersfield
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	93301
Affiliation Phone:	6618628900
Affiliation Type Desc:	Legal Owner
Entity Name:	COUNTY OF KERN
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Bakerfield
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	93301
Affiliation Phone:	6618628900
Name:	KERN COUNTY PUBLIC WORKS DEPARTMENT - BORON LANDFILL

KERN COUNTY PUBLIC WORKS DEPARTMENT (Continued) **S104889754**

Address: 11400 BORON AVE
City,State,Zip: BORON, CA 93516
Site ID: 41217
CERS ID: 10231186
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 41217
Site Name: Kern County Public Works Department - BORON LANDFILL
Violation Date: 09-27-2018
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Returned to compliance on 10/26/2018. Submit waste oil manifests within 30 days.
Violation Division: Kern County Env Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 41217
Site Name: Kern County Public Works Department - BORON LANDFILL
Violation Date: 09-27-2018
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Returned to compliance on 10/26/2018. Observed accumulation of debris and oil like substance in the secondary containment at the oil pod. Maintain containment to prevent the release of oil on to the ground. Provide photos to abate violation within 30 days. Elizabeth King KINGEL@kerncounty.com.
Violation Division: Kern County Env Health Services Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-24-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Kern County Env Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-27-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported

KERN COUNTY PUBLIC WORKS DEPARTMENT (Continued) **S104889754**

Eval Division: Kern County Env Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-24-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Kern County Env Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-27-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Kern County Env Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Kern County Environmental Health Services Departme
Entity Title: Not reported
Affiliation Address: 2700 M Street, Suite 300
Affiliation City: Bakersfield
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93301-2370
Affiliation Phone: (661) 862-8740

Affiliation Type Desc: Environmental Contact
Entity Name: SERGIO FURTADO
Entity Title: Not reported
Affiliation Address: 2700 M ST SUITE 500
Affiliation City: BAKERSFIELD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93301
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 2700 M ST SUITE 500
Affiliation City: BAKERSFIELD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93301
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: SERGIO FURTADO
Entity Title: Not reported
Affiliation Address: Not reported

KERN COUNTY PUBLIC WORKS DEPARTMENT (Continued) **S104889754**

Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (661) 862-8958

Affiliation Type Desc: Legal Owner
Entity Name: Kern County Public Works Department
Entity Title: Not reported
Affiliation Address: 2700 M ST SUITE 500
Affiliation City: BAKERSFIELD
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 93301
Affiliation Phone: (661) 862-8900

Affiliation Type Desc: Parent Corporation
Entity Name: KERN COUNTY PUBLIC WORKS DEPT
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Sergio Furtado
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Sergio Furtado
Entity Title: Waste Management Specialist
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:
Name: KERN COUNTY PUBLIC WORKS DEPARTMENT
Address: 11400 BORON AVENUE
Address 2: Not reported
City,State,Zip: BORON, CA 93516
EPA ID: CAH111000199
Inactive Date: Not reported
Create Date: 02/10/1994
Last Act Date: 10/07/2016
Mailing Name: Not reported

KERN COUNTY PUBLIC WORKS DEPARTMENT (Continued) **S104889754**

Mailing Address:	2700 M STREET
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BAKERSFIELD, CA 933010000
Owner Name:	KERN CO WASTE MANAGEMENT DEPT
Owner Address:	2700 M STREET
Owner Address 2:	Not reported
Owner City,State,Zip:	BAKERSFIELD, CA 933010000
Contact Name:	LYNETTE BEURMANN
Contact Address:	2700 M STREET
Contact Address 2:	Not reported
City,State,Zip:	BAKERSFIELD, CA 933010000

A6 **KRAMER POTASH PLANT** **FUDS** **1024903927**
NE **N/A**
1/2-1 **BARSTOW, CA**
0.502 mi.
2648 ft. **Site 1 of 2 in cluster A**

Actual:
2470 ft.

Focus Map:
7

FUDS:

EPA Region:	09
Installation ID:	CA99799FA00300
Congressional District Number:	08
Facility Name:	KRAMER POTASH PLANT
FUDS Number:	J09CA7180
City:	BARSTOW
State:	CA
County:	SAN BERNARDINO
Object ID:	4175
USACE District:	Los Angeles District (SPL)
Status:	Properties without projects
Current Owner:	Not reported
EMS Map Link:	https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=54246
Eligibility:	Ineligible
Has Projects:	No
NPL Status:	Not Listed
Latitude:	34.994444440000000
Longitude:	-117.538888889999000

A7 **KRAMER POTASH PLANT** **ENVIROSTOR** **S107736552**
NE **N/A**
1/2-1 **BARSTOW, CA**
0.504 mi.
2662 ft. **Site 2 of 2 in cluster A**

Actual:
2470 ft.

Focus Map:
7

ENVIROSTOR:

Name:	KRAMER POTASH PLANT
Address:	Not reported
City,State,Zip:	BARSTOW, CA
Facility ID:	80000882
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO

KRAMER POTASH PLANT (Continued) **S107736552**

Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	33
Senate:	16
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	34.99444
Longitude:	-117.5388
APN:	049219218
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	049219218
Alias Type:	APN
Alias Name:	CA99799FA00300
Alias Type:	Federal Facility ID
Alias Name:	J09CA7180
Alias Type:	INPR
Alias Name:	80000882
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	07/29/1998
Comments:	Not reported
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

B8 **OFF BASE ADJACENT AREA 2 (CENTRAL)** **UXO** **1024715750**
NW **N/A**
1/2-1 **EDWARDS AFB, CA**
0.768 mi.
4057 ft. **Site 1 of 2 in cluster B**

Actual:
2500 ft.

Focus Map:
2

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:	34.990000000000002
Longitude:	-117.66

B9 **OFF BASE ADJACENT AREA 2 (EAST & WEST)** **UXO** **1024715754**
NW **N/A**
1/2-1 **EDWARDS AFB, CA**
0.768 mi.
4057 ft. **Site 2 of 2 in cluster B**

Actual:
2500 ft.

Focus Map:
2

UXO:

DoD Component:	Air Force
Installation Name:	EDWARDS AIR FORCE BASE
Facility Address 2:	Not reported
Site ID:	AL5052A
Site Type:	Air to Land
Latitude:	34.990000000000002
Longitude:	-117.66

Count: 9 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BORON	S105652085		HWY 58 AT AMARGO AT SAN BERNARDINO CO LINE		CHMIRS
BORON	1023357495	SOUTHERN CALIFORNIA EDISON AMARGO SUBSTATION	ALLEY N/O AMARGO RD. E/O BORON AVE.	93516	FINDS
EDWARD	S106825473	AIR FORCE FLIGHT TEST CENTER	EDWARDS AIR FORCE BASE	93524	EMI
EDWARDS	2014071152		EDWARDS AIR FORCE BASE		ERNS
EDWARDS	S116362191		EDWARDS AIR FORCE BASE		CHMIRS
LANCASTER	S110424249		SOUTH BASE, BUILD 151, EDWARDS AIR FORCE BASE	93524	CHMIRS
ROSAMOND	S110421438		BUILDING 369, EDWARDS AIR FORCE BASE	93524	CHMIRS
UNINCORPORATED COUN	S105662705		SOUTH BAY SPUR LOCATED AT EDWARDS AIR FORCE BASE	93524	CHMIRS
UNINCORPORATED COUN	S111756420		BUILDING 151, EDWARDS AIR FORCE BASE, SOUTH BASE, CLOSEST CITY IS MOJAVE	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.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 07/13/2020
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 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

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

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: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/03/2020
Next Scheduled EDR Contact: 07/13/2020
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: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

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: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/25/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/25/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/25/2020
Next Scheduled EDR Contact: 07/06/2020
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: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/25/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/25/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

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: 11/04/2019
Date Data Arrived at EDR: 11/13/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 76

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/14/2020
Next Scheduled EDR Contact: 08/24/2020
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: 02/13/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

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: 02/13/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/19/2019
Date Made Active in Reports: 03/06/2020
Number of Days to Update: 78

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/24/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/27/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/28/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/27/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/28/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Quarterly

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

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an 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: 02/10/2020
Date Data Arrived at EDR: 02/11/2020
Date Made Active in Reports: 04/20/2020
Number of Days to Update: 69

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/12/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST: 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: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

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

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 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: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 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

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: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/02/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/15/2019
Date Data Arrived at EDR: 12/17/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/10/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 67
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/04/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/27/2020
Number of Days to Update: 85
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 72
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

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: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 1
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

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: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

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: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 02/01/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 03/19/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 71
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

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: 03/09/2020
Date Data Arrived at EDR: 03/11/2020
Date Made Active in Reports: 05/26/2020
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

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: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 72

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/02/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/10/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 67

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/04/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/27/2020
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/27/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/28/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/18/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Varies

State and tribal Brownfields sites

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: 03/23/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/05/2020
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/24/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/01/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 06/29/2020
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/15/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 69

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/06/2020
Next Scheduled EDR Contact: 08/24/2020
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: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
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: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
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: 05/01/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

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: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/27/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/28/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Quarterly

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: 12/31/2018
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 70

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/14/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Varies

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

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: 01/21/2020
Date Data Arrived at EDR: 01/22/2020
Date Made Active in Reports: 04/01/2020
Number of Days to Update: 70

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/21/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Quarterly

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: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

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

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/19/2019
Date Data Arrived at EDR: 12/23/2019
Date Made Active in Reports: 02/21/2020
Number of Days to Update: 60

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/11/2019
Number of Days to Update: 70

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/23/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Varies

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: 01/21/2020
Date Data Arrived at EDR: 01/22/2020
Date Made Active in Reports: 04/01/2020
Number of Days to Update: 70

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/21/2020
Next Scheduled EDR Contact: 08/03/2020
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

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/03/2020
Date Data Arrived at EDR: 03/05/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 70

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
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: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Semi-Annually

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: 03/02/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/13/2020
Number of Days to Update: 71

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/05/2019
Date Data Arrived at EDR: 12/06/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 70

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/24/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

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: 12/24/2019
Date Data Arrived at EDR: 01/22/2020
Date Made Active in Reports: 03/30/2020
Number of Days to Update: 68

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/21/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Semi-Annually

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: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 1

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

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: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / 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: 03/23/2020
Date Data Arrived at EDR: 03/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/25/2020
Next Scheduled EDR Contact: 07/06/2020
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: 01/28/2020
Date Data Arrived at EDR: 02/19/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 08/31/2020
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: 04/10/2020
Next Scheduled EDR Contact: 07/20/2020
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: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/06/2020
Next Scheduled EDR Contact: 07/20/2020
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: 05/15/2020
Next Scheduled EDR Contact: 08/24/2020
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: 12/16/2019
Date Data Arrived at EDR: 12/19/2019
Date Made Active in Reports: 02/27/2020
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/24/2020
Next Scheduled EDR Contact: 07/06/2020
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: 05/04/2020
Next Scheduled EDR Contact: 08/17/2020
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: 05/08/2020
Next Scheduled EDR Contact: 08/17/2020
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: 03/20/2020
Next Scheduled EDR Contact: 06/29/2020
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: 12/31/2018
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 79

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/21/2020
Next Scheduled EDR Contact: 08/31/2020
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: 05/01/2019
Date Data Arrived at EDR: 10/23/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/21/2020
Next Scheduled EDR Contact: 08/03/2020
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: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 09/14/2020
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: 11/05/2019
Date Data Arrived at EDR: 11/20/2019
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 149

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/15/2020
Next Scheduled EDR Contact: 08/03/2020
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: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 08/17/2020
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: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2020
Next Scheduled EDR Contact: 07/20/2020
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: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
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: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

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: 10/25/2019
Date Data Arrived at EDR: 10/25/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 82

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/10/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/05/2020
Next Scheduled EDR Contact: 09/14/2020
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: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/01/2020
Next Scheduled EDR Contact: 09/14/2020
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: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/08/2020
Next Scheduled EDR Contact: 08/17/2020
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: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/28/2020
Next Scheduled EDR Contact: 08/10/2020
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: 12/31/2019
Date Data Arrived at EDR: 01/17/2020
Date Made Active in Reports: 03/06/2020
Number of Days to Update: 49

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
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: 03/25/2020
Next Scheduled EDR Contact: 07/06/2020
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: 04/10/2020
Next Scheduled EDR Contact: 07/20/2020
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: 04/29/2020
Next Scheduled EDR Contact: 08/17/2020
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: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/31/2020
Date Data Arrived at EDR: 04/01/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 50

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/11/2020
Date Data Arrived at EDR: 02/25/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 86

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/21/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/16/2018
Date Data Arrived at EDR: 02/28/2020
Date Made Active in Reports: 05/22/2020
Number of Days to Update: 84

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/07/2020
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: 05/21/2020
Next Scheduled EDR Contact: 09/07/2020
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: 03/05/2020
Date Data Arrived at EDR: 03/06/2020
Date Made Active in Reports: 05/29/2020
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 09/21/2020
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: 02/03/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 86

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

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: 05/18/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/03/2020
Next Scheduled EDR Contact: 07/27/2020
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: 01/05/2020
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/06/2020
Number of Days to Update: 59
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/07/2020
Next Scheduled EDR Contact: 07/20/2020
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: 02/18/2020
Date Data Arrived at EDR: 02/19/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 85
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/19/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Quarterly

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

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: 03/23/2020
Date Data Arrived at EDR: 03/24/2020
Date Made Active in Reports: 06/05/2020
Number of Days to Update: 73
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/24/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 02/03/2020
Date Data Arrived at EDR: 02/04/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 65

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/23/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Varies

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: 12/04/2019
Date Data Arrived at EDR: 01/29/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 71

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Annually

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: 01/31/2020
Date Data Arrived at EDR: 01/31/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 69

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

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: 02/27/2020
Date Data Arrived at EDR: 02/28/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 69

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Varies

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: 06/24/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 59

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/20/2020
Next Scheduled EDR Contact: 06/29/2020
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/03/2020
Date Data Arrived at EDR: 04/07/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 8

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/03/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/21/2020
Date Data Arrived at EDR: 01/23/2020
Date Made Active in Reports: 04/01/2020
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

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: 02/19/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 04/29/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 05/29/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 54

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/15/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 02/19/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 65

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 02/19/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 65

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Quarterly

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: 01/06/2020
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/05/2020
Number of Days to Update: 58

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/09/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/12/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 72

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/10/2020
Date Data Arrived at EDR: 02/11/2020
Date Made Active in Reports: 04/20/2020
Number of Days to Update: 69

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/12/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: Quarterly

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: 03/02/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 72

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

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: 03/12/2020
Date Data Arrived at EDR: 03/13/2020
Date Made Active in Reports: 05/21/2020
Number of Days to Update: 69

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

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: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/10/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Varies

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: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: No Update Planned

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: 03/18/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

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: 03/09/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/19/2020
Number of Days to Update: 70

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

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: 03/02/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/13/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Varies

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: 01/21/2020
Date Data Arrived at EDR: 01/22/2020
Date Made Active in Reports: 04/01/2020
Number of Days to Update: 70

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/21/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

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: 05/13/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 05/15/2020
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
The Hazardous Waste Tracking System (HWTS) is the Department of Toxic Substances Control?s data repository for hazardous waste Identification (ID) numbers and manifest information. HWTS generates reports on hazardous waste shipments for generators, transporters, and TSDFs.

Date of Government Version: 10/15/2019
Date Data Arrived at EDR: 11/14/2019
Date Made Active in Reports: 02/07/2020
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/09/2020
Next Scheduled EDR Contact: 06/22/2020
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/21/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
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

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

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:

CS ALAMEDA: 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: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/06/2020
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/06/2020
Number of Days to Update: 59

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/20/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 06/01/2020
Number of Days to Update: 13

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 05/18/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: 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: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/02/2019
Date Data Arrived at EDR: 12/03/2019
Date Made Active in Reports: 02/04/2020
Number of Days to Update: 63

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/18/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 03/02/2020
Date Data Arrived at EDR: 03/04/2020
Date Made Active in Reports: 06/01/2020
Number of Days to Update: 89

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/06/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/14/2020
Date Data Arrived at EDR: 02/18/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 66

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 12/27/2019
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 72

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/03/2020
Date Made Active in Reports: 03/05/2020
Number of Days to Update: 62

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/06/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: 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: 10/08/2019
Date Data Arrived at EDR: 10/10/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 62

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: 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: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/13/2019
Date Data Arrived at EDR: 11/14/2019
Date Made Active in Reports: 01/23/2020
Number of Days to Update: 70

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/14/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/21/2020
Date Data Arrived at EDR: 01/23/2020
Date Made Active in Reports: 03/30/2020
Number of Days to Update: 67

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: 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: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/31/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 70

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 04/23/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: 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: 02/13/2020
Date Data Arrived at EDR: 02/14/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 70

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 01/15/2020
Date Data Arrived at EDR: 01/16/2020
Date Made Active in Reports: 04/01/2020
Number of Days to Update: 76

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/13/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 01/31/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 69

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: 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: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/15/2020
Date Data Arrived at EDR: 01/16/2020
Date Made Active in Reports: 02/07/2020
Number of Days to Update: 22

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/13/2020
Date Data Arrived at EDR: 01/14/2020
Date Made Active in Reports: 03/24/2020
Number of Days to Update: 70

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/14/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Varies

LF LOS ANGELES CITY: 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: 04/02/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/27/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/17/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/27/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 03/27/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/14/2020
Date Made Active in Reports: 03/24/2020
Number of Days to Update: 70

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/14/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Annually

UST EL SEGUNDO: 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: 04/02/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/27/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 64

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: 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: 02/24/2020
Date Data Arrived at EDR: 02/25/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: 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: 03/20/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/20/2019
Date Made Active in Reports: 01/03/2020
Number of Days to Update: 44

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/06/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2020
Date Data Arrived at EDR: 03/05/2020
Date Made Active in Reports: 05/13/2020
Number of Days to Update: 69

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 11/06/2019
Date Data Arrived at EDR: 11/07/2019
Date Made Active in Reports: 01/08/2020
Number of Days to Update: 62

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/13/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: 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: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/05/2020
Date Data Arrived at EDR: 02/06/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 69

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/06/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/04/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/04/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 02/04/2020
Date Made Active in Reports: 04/10/2020
Number of Days to Update: 66

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/05/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/02/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/13/2020
Number of Days to Update: 71

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 03/10/2020
Date Data Arrived at EDR: 03/11/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 70

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 02/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/10/2020
Date Data Arrived at EDR: 03/11/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 70

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/14/2019
Date Data Arrived at EDR: 12/23/2019
Date Made Active in Reports: 02/20/2020
Number of Days to Update: 59

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Quarterly

ML SACRAMENTO: 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: 11/14/2019
Date Data Arrived at EDR: 12/23/2019
Date Made Active in Reports: 02/21/2020
Number of Days to Update: 60

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 02/12/2020
Date Data Arrived at EDR: 02/13/2020
Date Made Active in Reports: 04/23/2020
Number of Days to Update: 70

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/23/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: 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: 02/25/2020
Date Data Arrived at EDR: 02/26/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 71

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 04/23/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: 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: 03/02/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/13/2020
Number of Days to Update: 71

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/02/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

LF SAN DIEGO: 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: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

SAN DIEGO CO LOP: 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: 12/26/2019
Date Data Arrived at EDR: 01/22/2020
Date Made Active in Reports: 04/01/2020
Number of Days to Update: 70
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

SAN DIEGO CO SAM: 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: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: 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: 04/23/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 01/08/2020
Date Data Arrived at EDR: 01/09/2020
Date Made Active in Reports: 03/06/2020
Number of Days to Update: 57
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/23/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: 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: 06/10/2020
Next Scheduled EDR Contact: 09/28/2020
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 02/20/2020
Next Scheduled EDR Contact: 06/22/2020
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/03/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: 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: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/14/2020
Date Data Arrived at EDR: 02/19/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 65

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

HIST LUST SANTA CLARA: 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

LUST SANTA CLARA: 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: 05/15/2020
Next Scheduled EDR Contact: 09/07/2020
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 04/22/2020
Date Data Arrived at EDR: 04/24/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 13
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 04/23/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: 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: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: 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: 05/07/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/26/2020
Next Scheduled EDR Contact: 09/13/2020
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/02/2020
Date Data Arrived at EDR: 03/04/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 71
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 02/25/2020
Date Data Arrived at EDR: 02/26/2020
Date Made Active in Reports: 03/11/2020
Number of Days to Update: 14

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/18/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/03/2020
Date Made Active in Reports: 03/05/2020
Number of Days to Update: 62

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/06/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/04/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 70

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/02/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 01/23/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/08/2020
Number of Days to Update: 66

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/27/2020
Next Scheduled EDR Contact: 09/14/2020
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 03/16/2020
Date Data Arrived at EDR: 03/17/2020
Date Made Active in Reports: 05/26/2020
Number of Days to Update: 70

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/14/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/21/2020
Date Data Arrived at EDR: 01/23/2020
Date Made Active in Reports: 03/30/2020
Number of Days to Update: 67

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 02/10/2020
Date Data Arrived at EDR: 02/11/2020
Date Made Active in Reports: 04/20/2020
Number of Days to Update: 69

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 05/14/2020
Next Scheduled EDR Contact: 08/17/2020
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: 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: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: 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: 12/26/2019
Date Data Arrived at EDR: 01/24/2020
Date Made Active in Reports: 04/01/2020
Number of Days to Update: 68

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Quarterly

LF VENTURA: 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: 03/20/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: No Update Planned

LUST VENTURA: 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: 04/29/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: No Update Planned

MED WASTE VENTURA: 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: 12/26/2019
Date Data Arrived at EDR: 01/24/2020
Date Made Active in Reports: 04/01/2020
Number of Days to Update: 68
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/20/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 01/27/2020
Date Data Arrived at EDR: 03/10/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 71
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/09/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/12/2019
Date Data Arrived at EDR: 01/15/2020
Date Made Active in Reports: 03/25/2020
Number of Days to Update: 70
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/20/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/27/2020
Date Data Arrived at EDR: 02/12/2020
Date Made Active in Reports: 04/23/2020
Number of Days to Update: 71
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/16/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 01/30/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 39
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/12/2020
Next Scheduled EDR Contact: 08/24/2020
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/10/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/29/2020
Next Scheduled EDR Contact: 08/10/2020
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/02/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/14/2020
Next Scheduled EDR Contact: 08/31/2020
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/04/2020
Next Scheduled EDR Contact: 09/21/2020
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
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 Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

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

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 and Wildlife
Telephone: 916-445-0411

STREET AND ADDRESS INFORMATION

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Appendix E HISTORICAL RECORDS

Date EDR Searched Historical Sources:

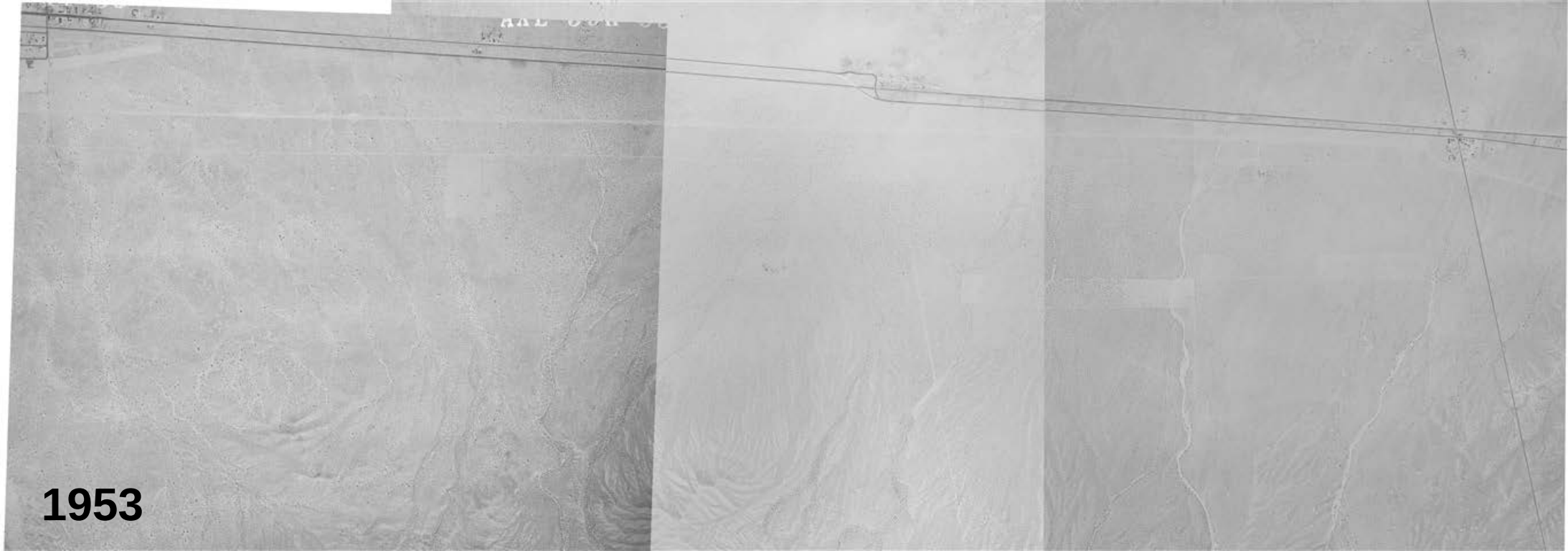
Aerial Photography June 19, 2020

Target Property:

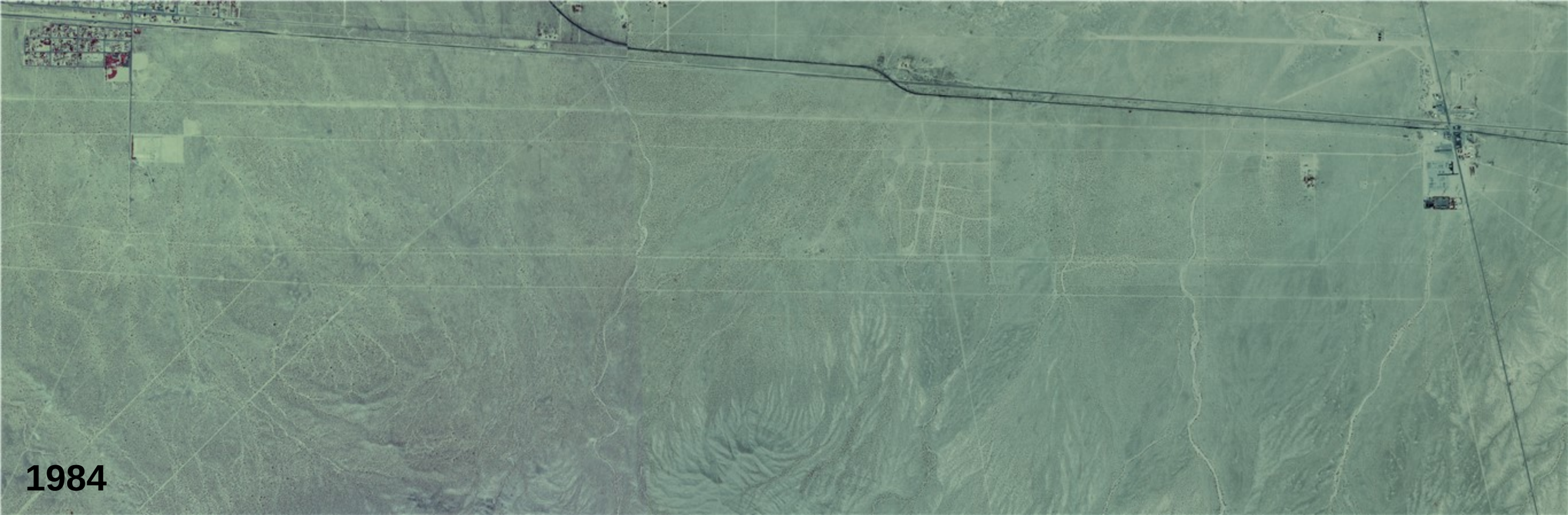
64NB 8me, LLC, Aratina Gen-tie

Boron, CA 93516

Year	***Scale***	***Details***	***Source***
1953	Aerial Photograph. Scale: 1:20000	Flight Year: 1953	USDA
1972	Aerial Photograph. Scale: 1:34000	Flight Year: 1972	USDA
1984	Aerial Photograph. Scale: 1:58000	Flight Year: 1984	USDA
1994-1995	Aerial Photograph. Scale: 1 Meter GSD	Flight Year: 1994-1995	DOQQ/NAPP
2005	Aerial Photograph. Scale: 1 Meter GSD	Flight Year: 2005	USDA/NAIP
2009	Aerial Photograph. Scale: 1 Meter GSD	Flight Year: 2009	USDA/NAIP
2012	Aerial Photograph. Scale: 1 Meter GSD	Flight Year: 2012	USDA/NAIP
2016	Aerial Photograph. Scale: .6 Meter GSD	Flight Year: 2016	USDA/NAIP

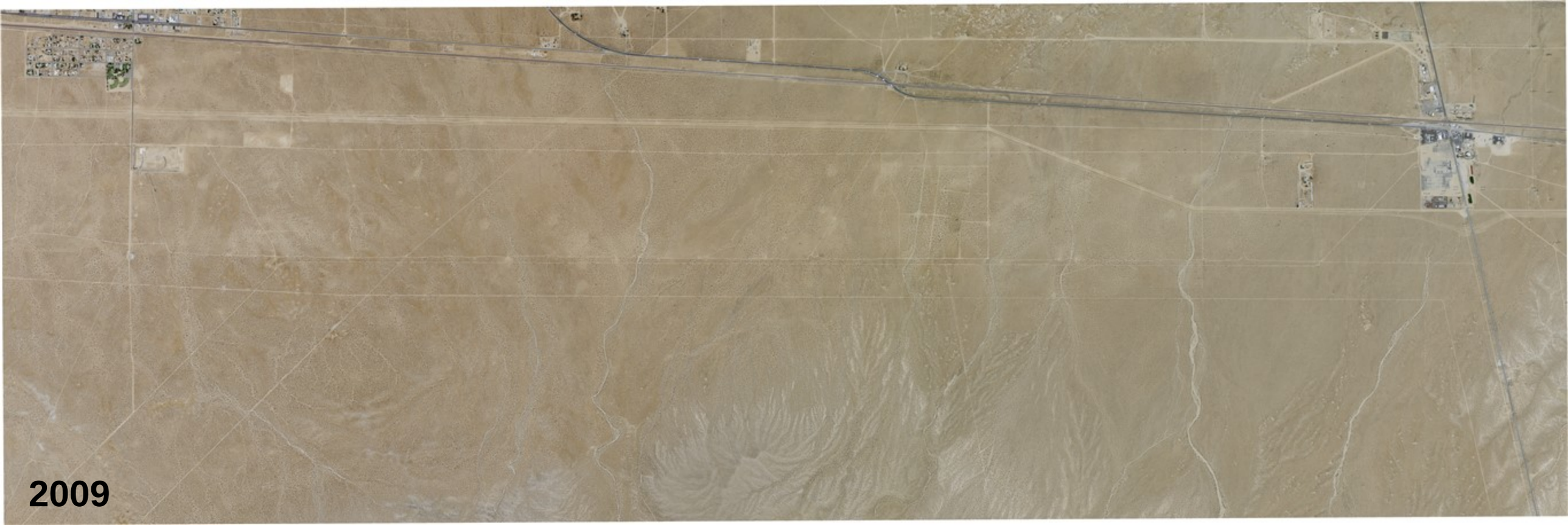

1953

1972


1984

1994-1995

2005


2009

2012

2016

64NB 8me, LLC, Aratina Gen-tie

64NB 8me, LLC, Aratina Gen-tie

Boron, CA 93516

Inquiry Number: 6089723.5

June 15, 2020

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

06/15/20

Site Name:	Client Name:
64NB 8me, LLC, Aratina Gen-t	Stantec
64NB 8me, LLC, Aratina Gen-t	735 E. Carnegie Drive, Suite 280
Boron, CA 93516	SAN BERNARDINO, CA 92408
EDR Inquiry # 6089723.5	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:		*Coordinates:*	
P.O.#	NA	**Latitude:**	34.98314 34° 58' 59" North
Project:	185804366	**Longitude:**	-117.58467 -117° 35' 5" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	446636.63
		UTM Y Meters:	3871329.46
		Elevation:	2549.91' above sea level

Maps Provided:

2012
1973
1954, 1956
1947
1942
1937

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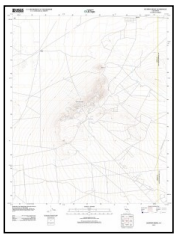
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Kramer Junction
2012
7.5-minute, 24000

Saddleback Mountain
2012
7.5-minute, 24000



Leuhman Ridge
2012
7.5-minute, 24000

Boron
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

1954, 1956 Source Sheets

Boron
1954
15-minute, 62500
Aerial Photo Revised 1952

Kramer
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

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1942 Source Sheets

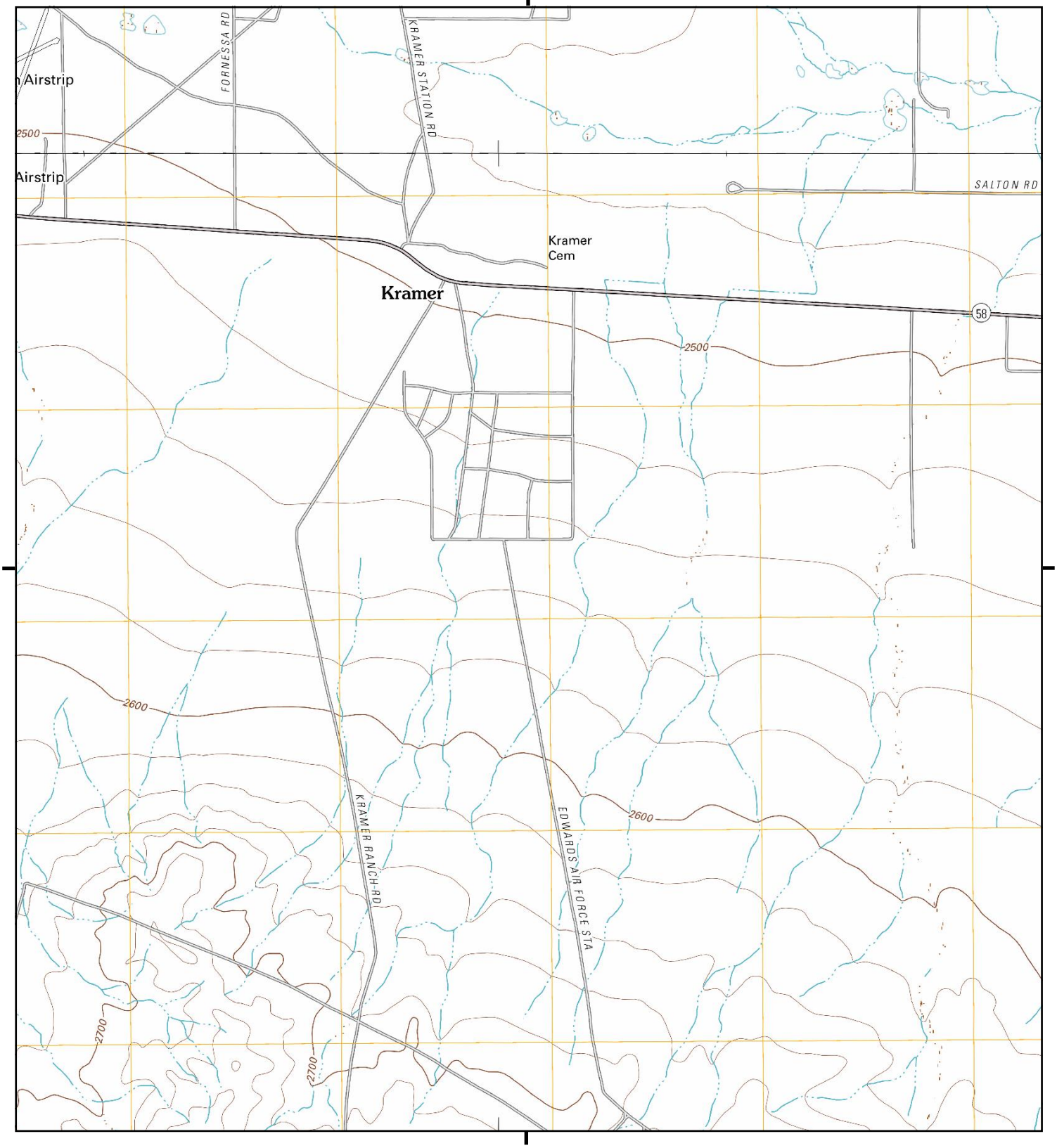
Kramer
1942
15-minute, 62500

1937 Source Sheets

Kramer
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

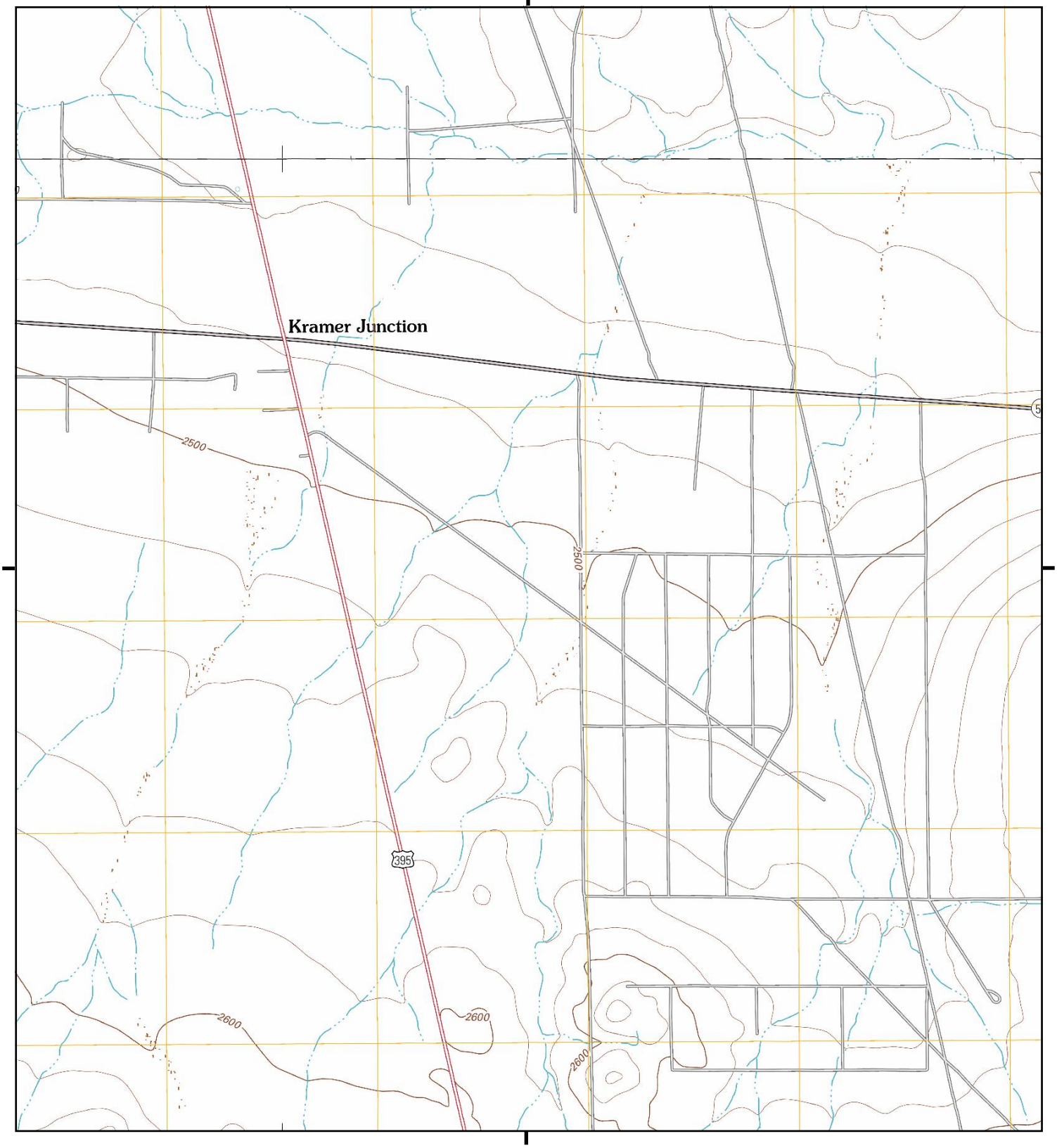
TP, Kramer Junction, 2012, 7.5-minute
N, Saddleback Mountain, 2012, 7.5-minute

SITE NAME: 64NB 8me, LLC, Aratina Gen-tie
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie
Boron, CA 93516
CLIENT: Stantec

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

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W E
SW S SE

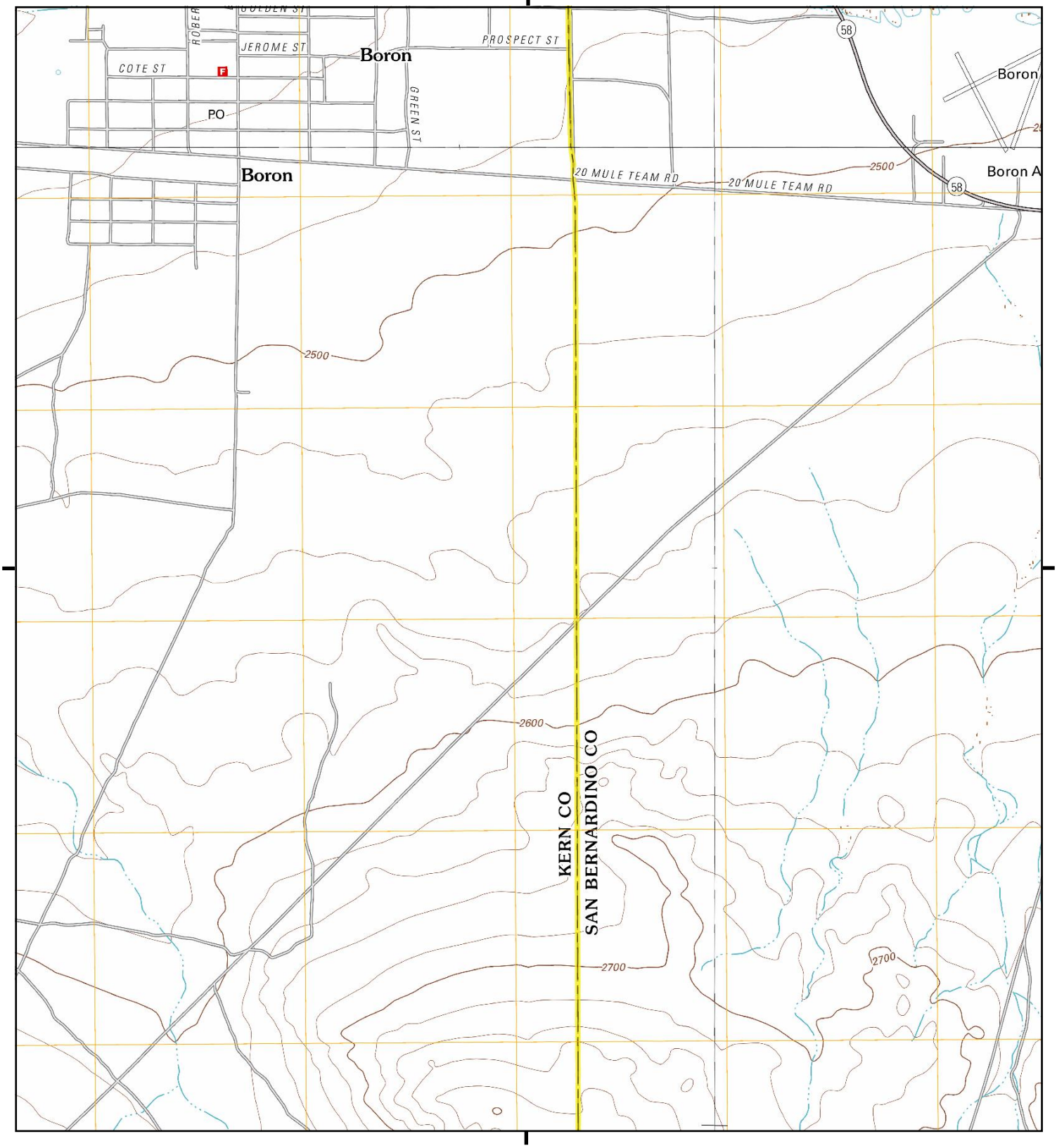
TP, Kramer Junction, 2012, 7.5-minute
N, Saddleback Mountain, 2012, 7.5-minute

SITE NAME: 64NB 8me, LLC, Aratina Gen-tie
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie
Boron, CA 93516
CLIENT: Stantec

N

Historical Topo Map

2012



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W E
SW S SE

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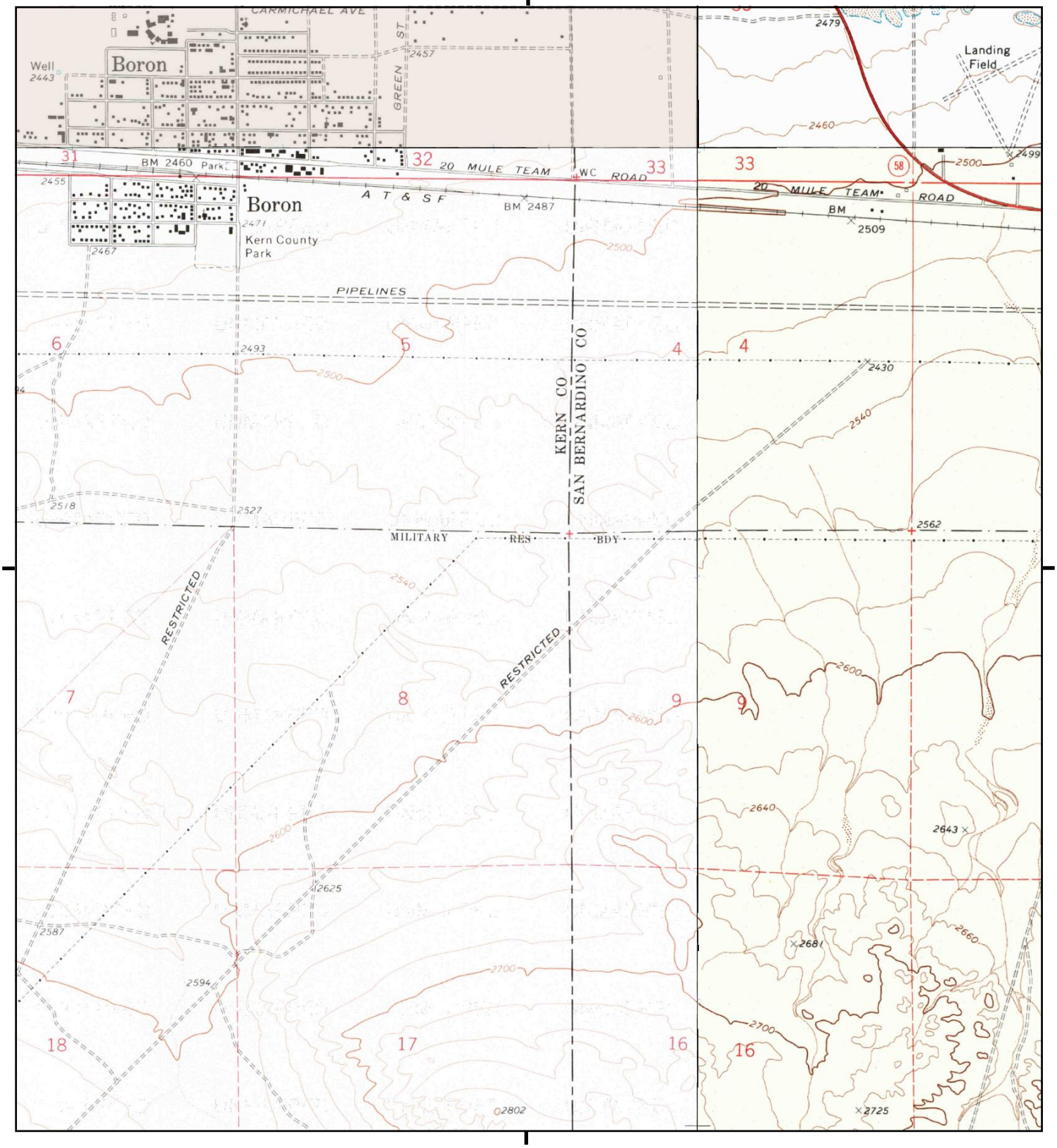
N, Boron, 2012, 7.5-minute
NE, Saddleback Mountain, 2012, 7.5-minute
SE, Kramer Junction, 2012, 7.5-minute

SITE NAME: 64NB 8me, LLC, Aratina Gen-tie
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie
Boron, CA 93516
CLIENT: Stantec

N



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0 Miles 0.25 0.5 1 1.5

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W E
SW S SE

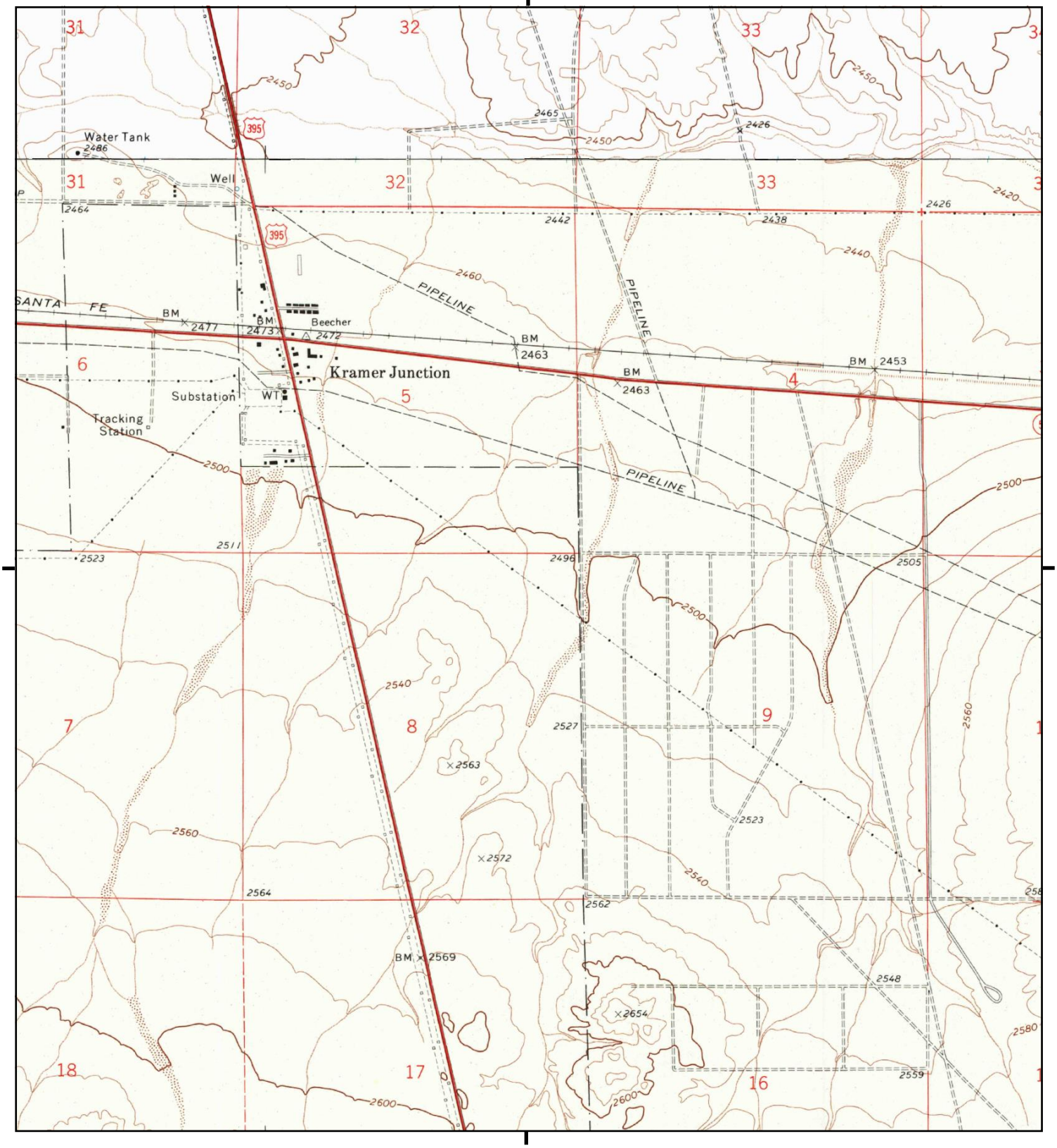
TP, Leuhman Ridge, 1973, 7.5-minute
N, Saddleback Mtn, 1973, 7.5-minute
SE, Kramer Junction, 1973, 7.5-minute
NW, Boron, 1973, 7.5-minute

SITE NAME: 64NB 8me, LLC, Aratina Gen-tie
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie
Boron, CA 93516
CLIENT: Stantec

N

Historical Topo Map

1973



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W E
SW S SE

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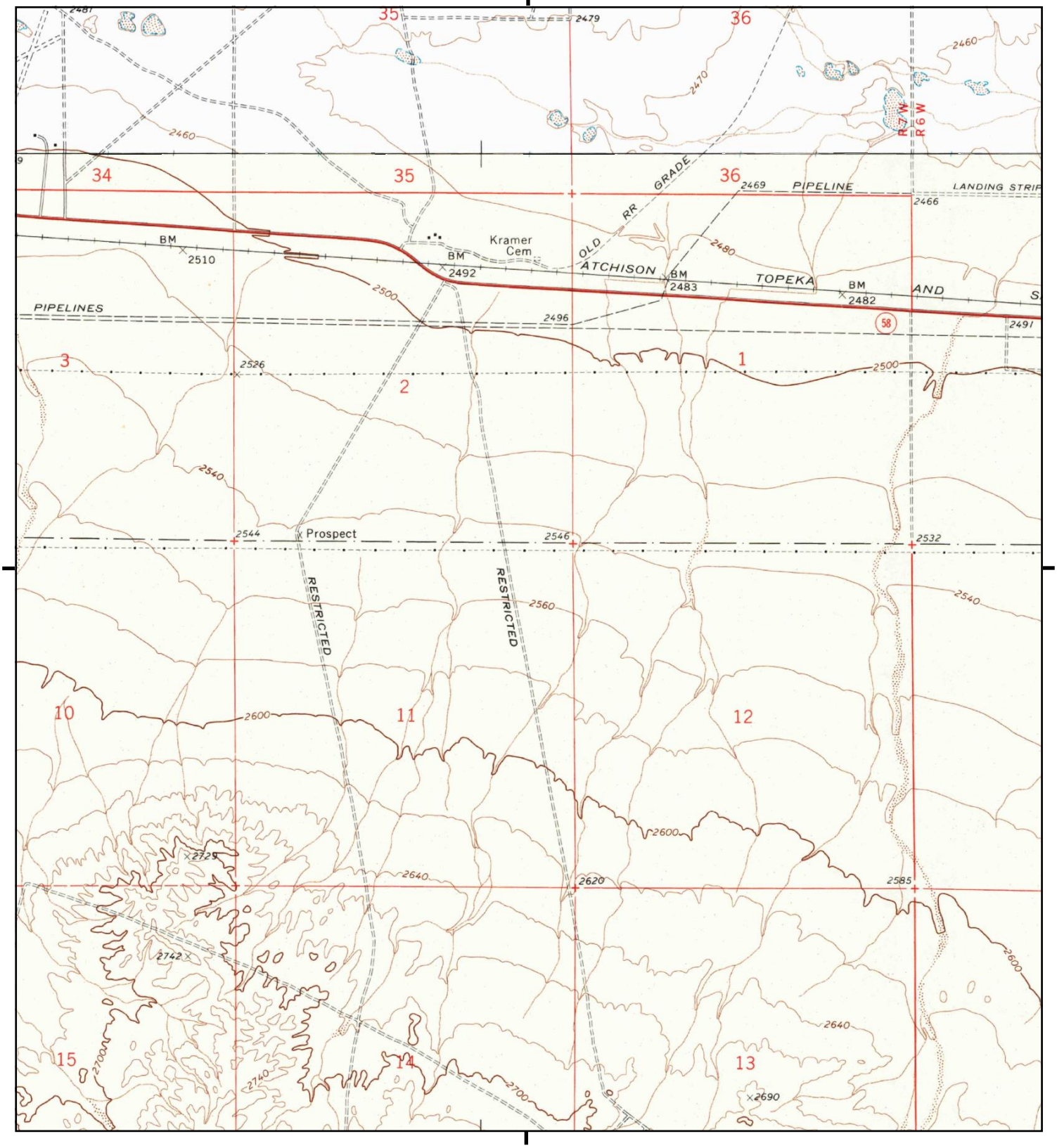
N, Saddleback Mtn, 1973, 7.5-minute

SITE NAME: 64NB 8me, LLC, Aratina Gen-tie
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie
Boron, CA 93516
CLIENT: Stantec

N

Historical Topo Map

1973



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0 Miles 0.25 0.5 1 1.5

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W E
SW S SE

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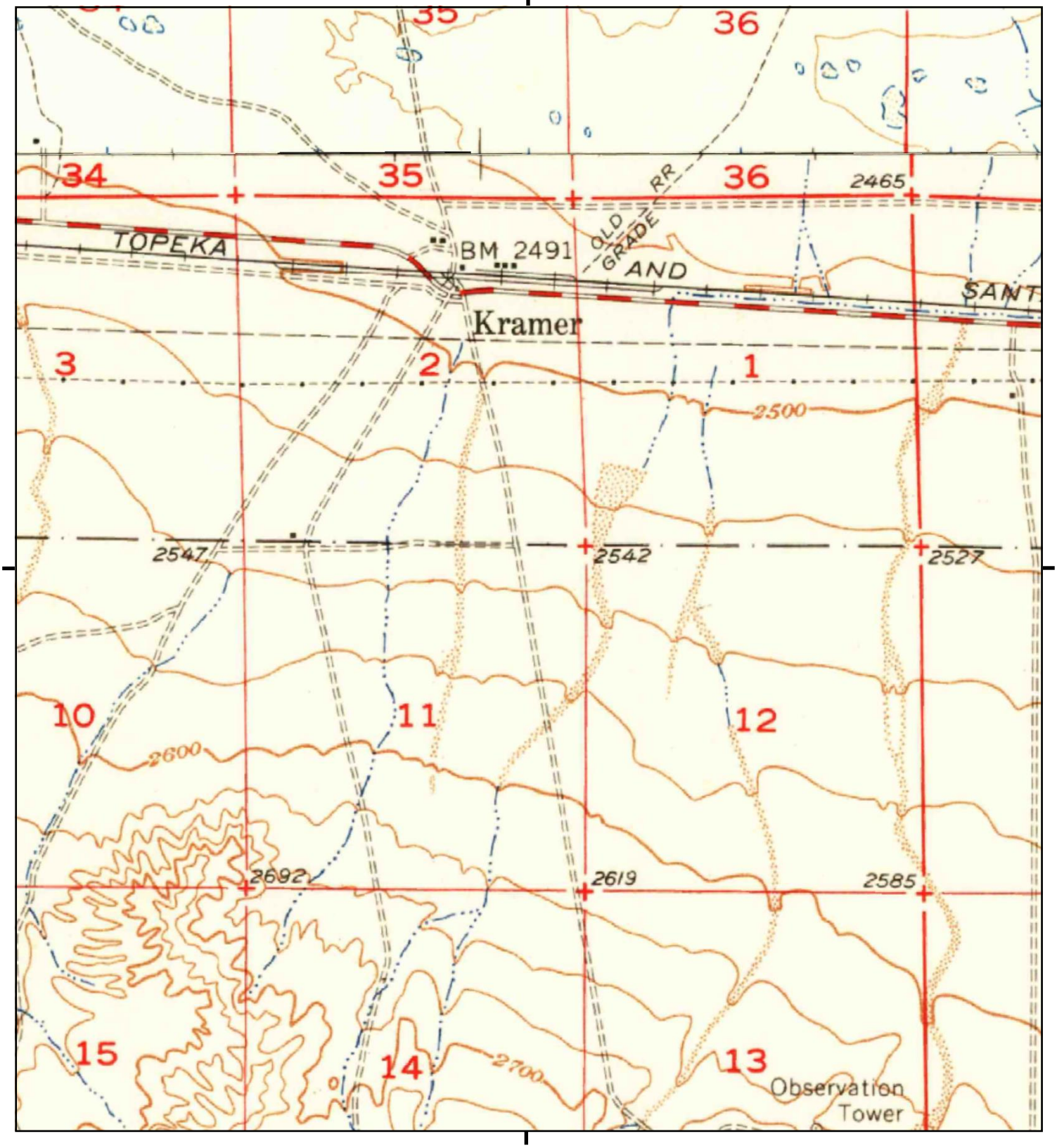
N, Saddleback Mtn, 1973, 7.5-minute

SITE NAME: 64NB 8me, LLC, Aratina Gen-tie
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie
Boron, CA 93516
CLIENT: Stantec

N



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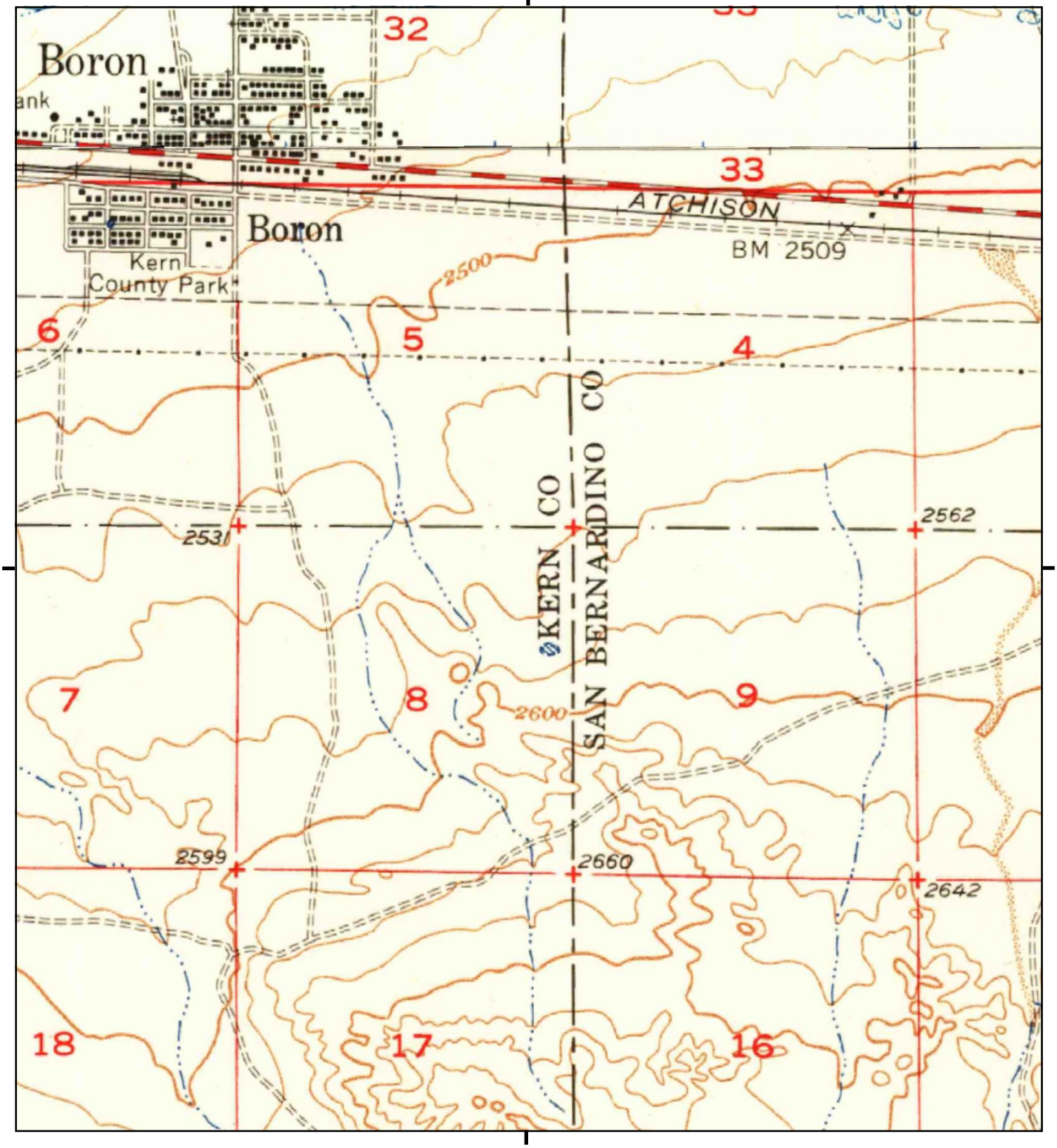
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Kramer, 1956, 15-minute
N, Boron, 1954, 15-minute

SITE NAME: 64NB 8me, LLC, Aratina Gen-tie
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie
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

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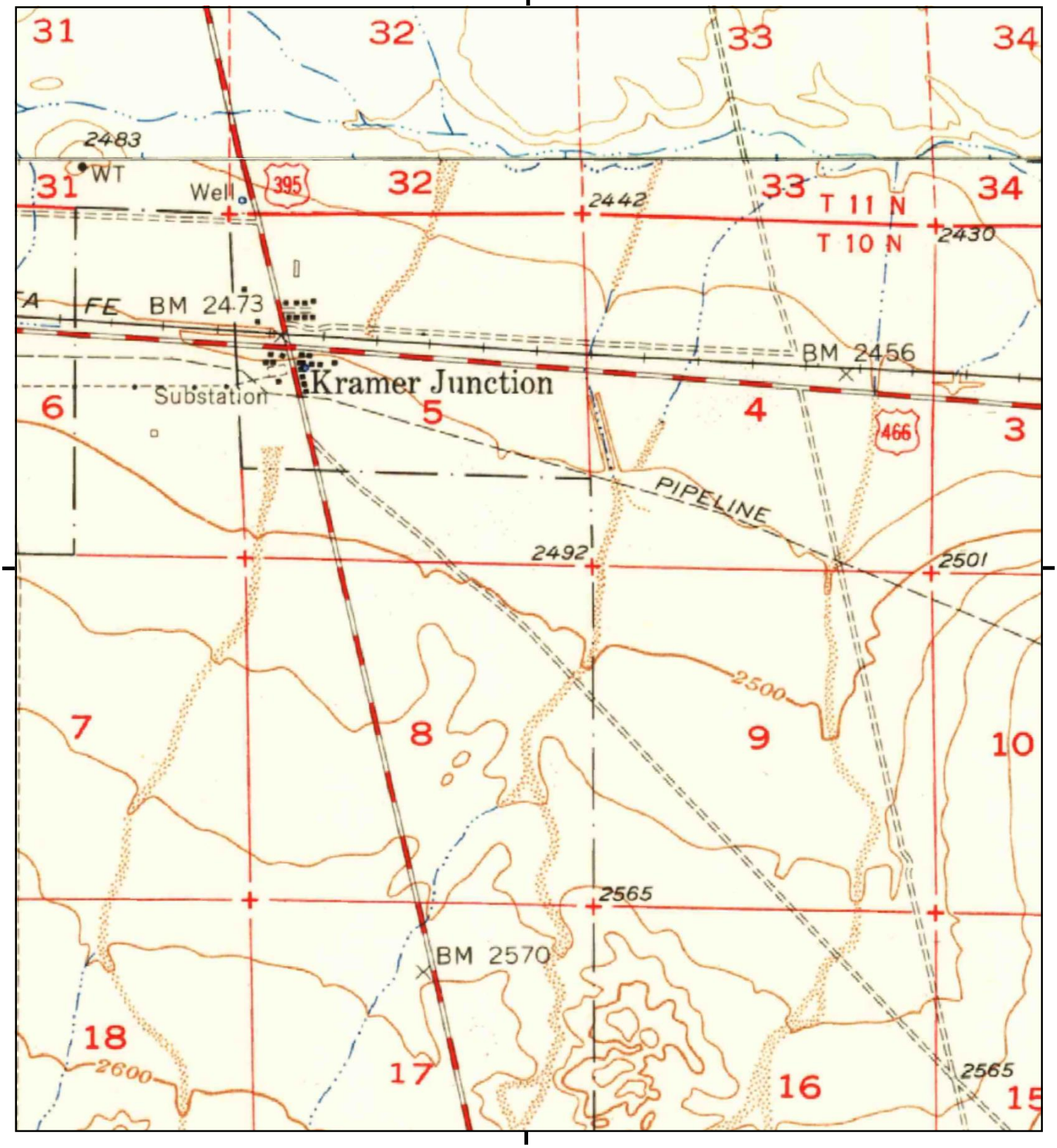
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie
Boron, CA 93516
CLIENT: Stantec

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
NW, Boron, 1954, 15-minute

SITE NAME: 64NB 8me, LLC, Aratina Gen-tie
ADDRESS: 64NB 8me, LLC, Aratina Gen-tie
Boron, CA 93516
CLIENT: Stantec

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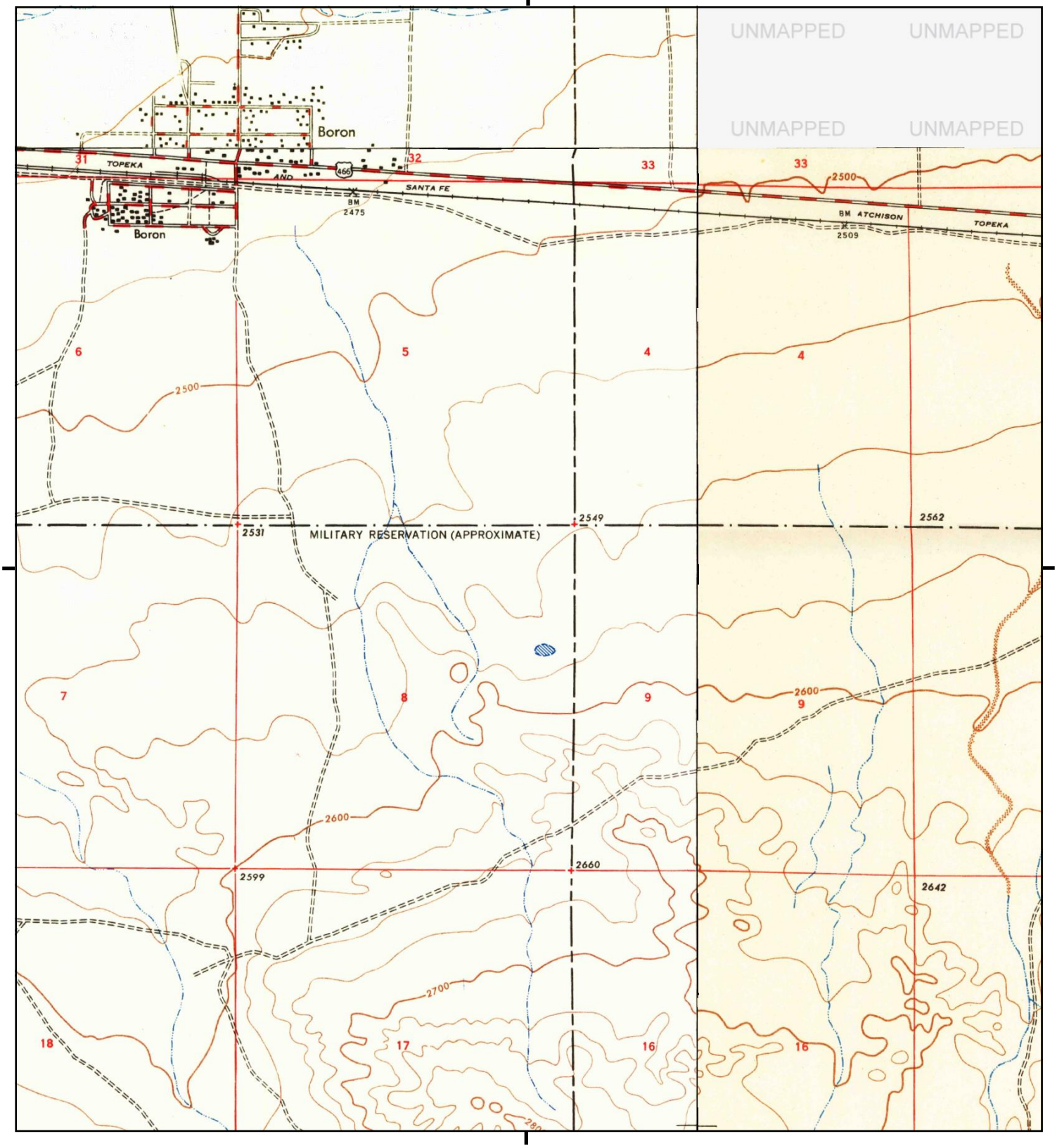

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Boron, CA 93516
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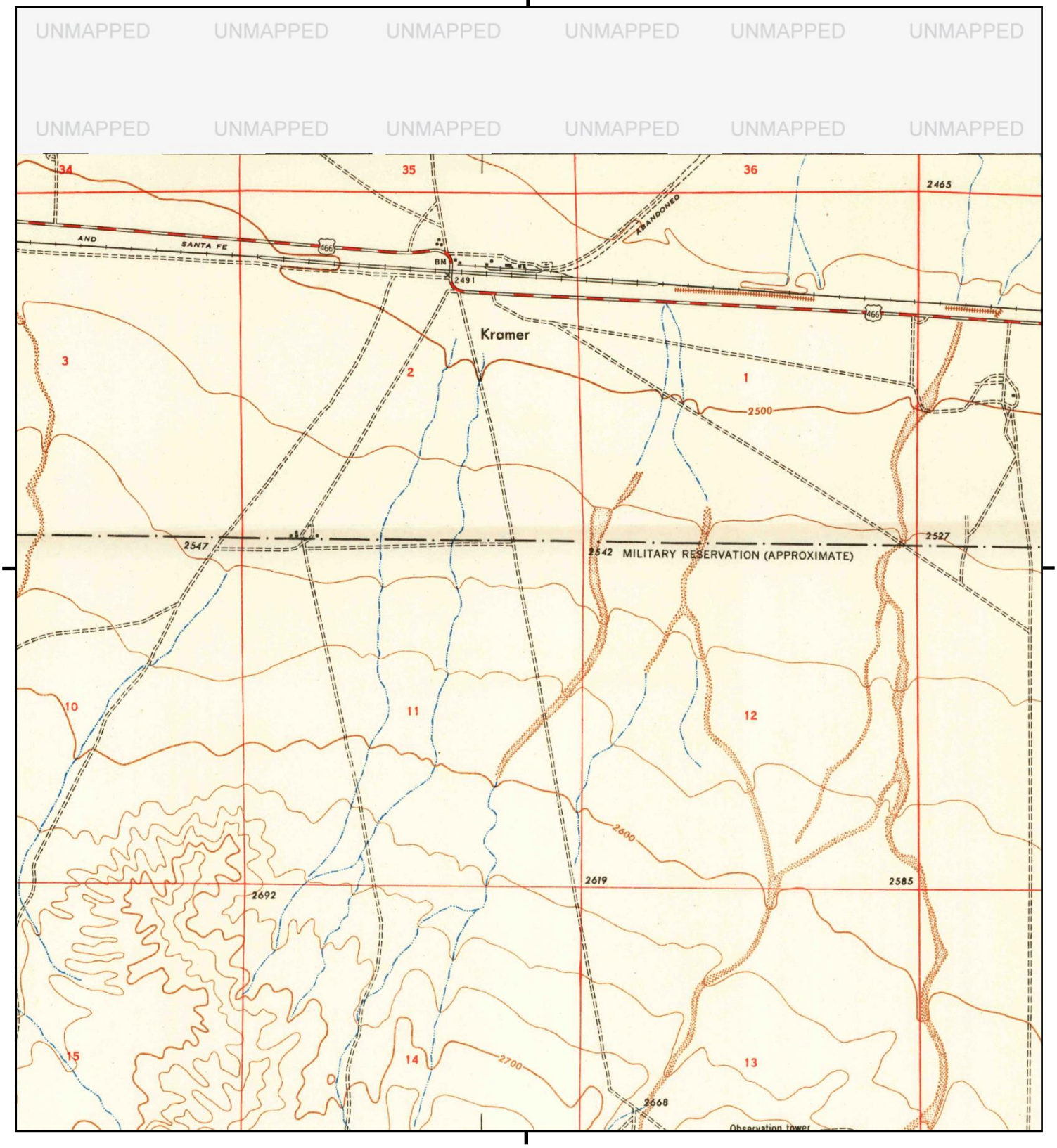

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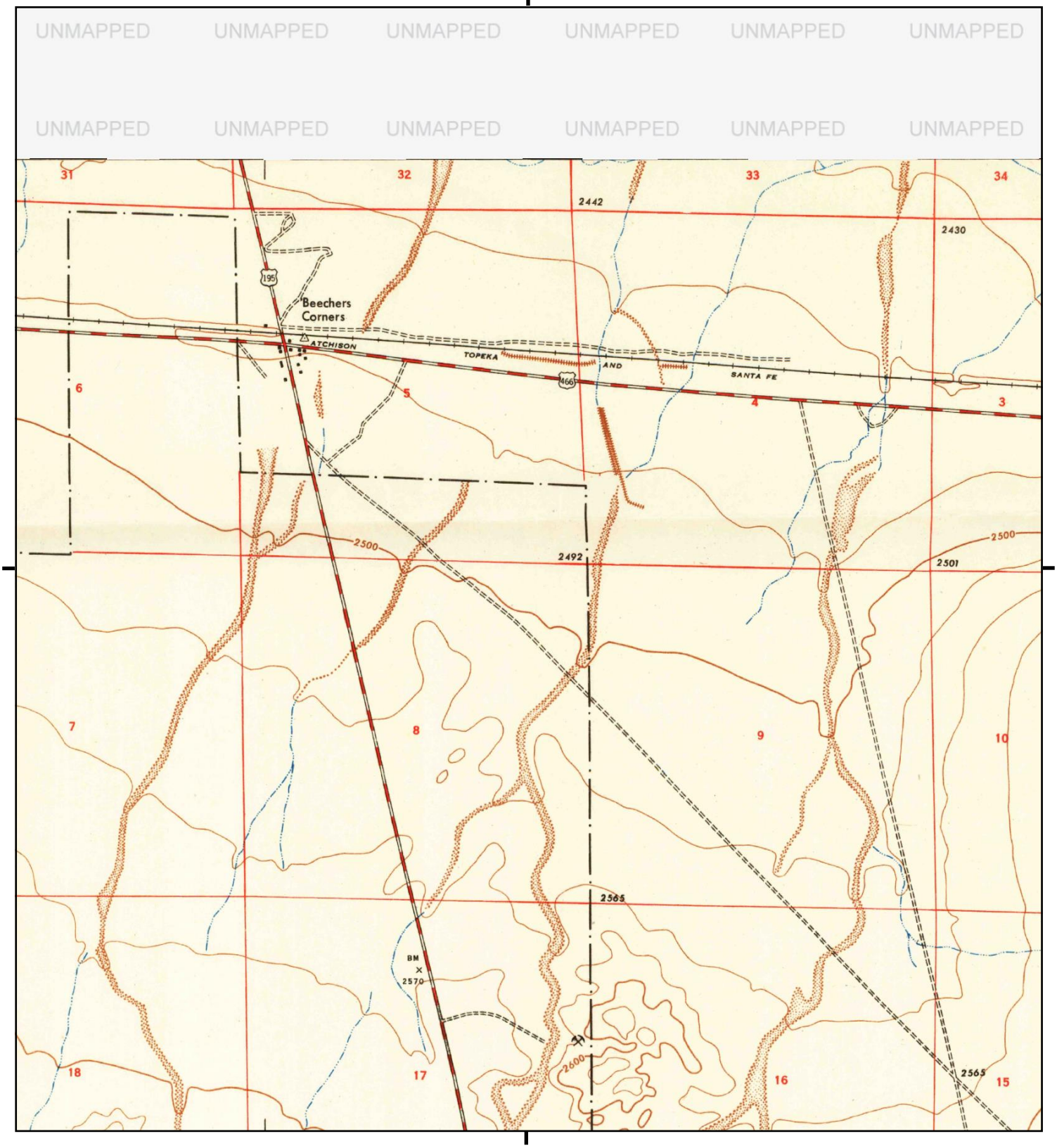

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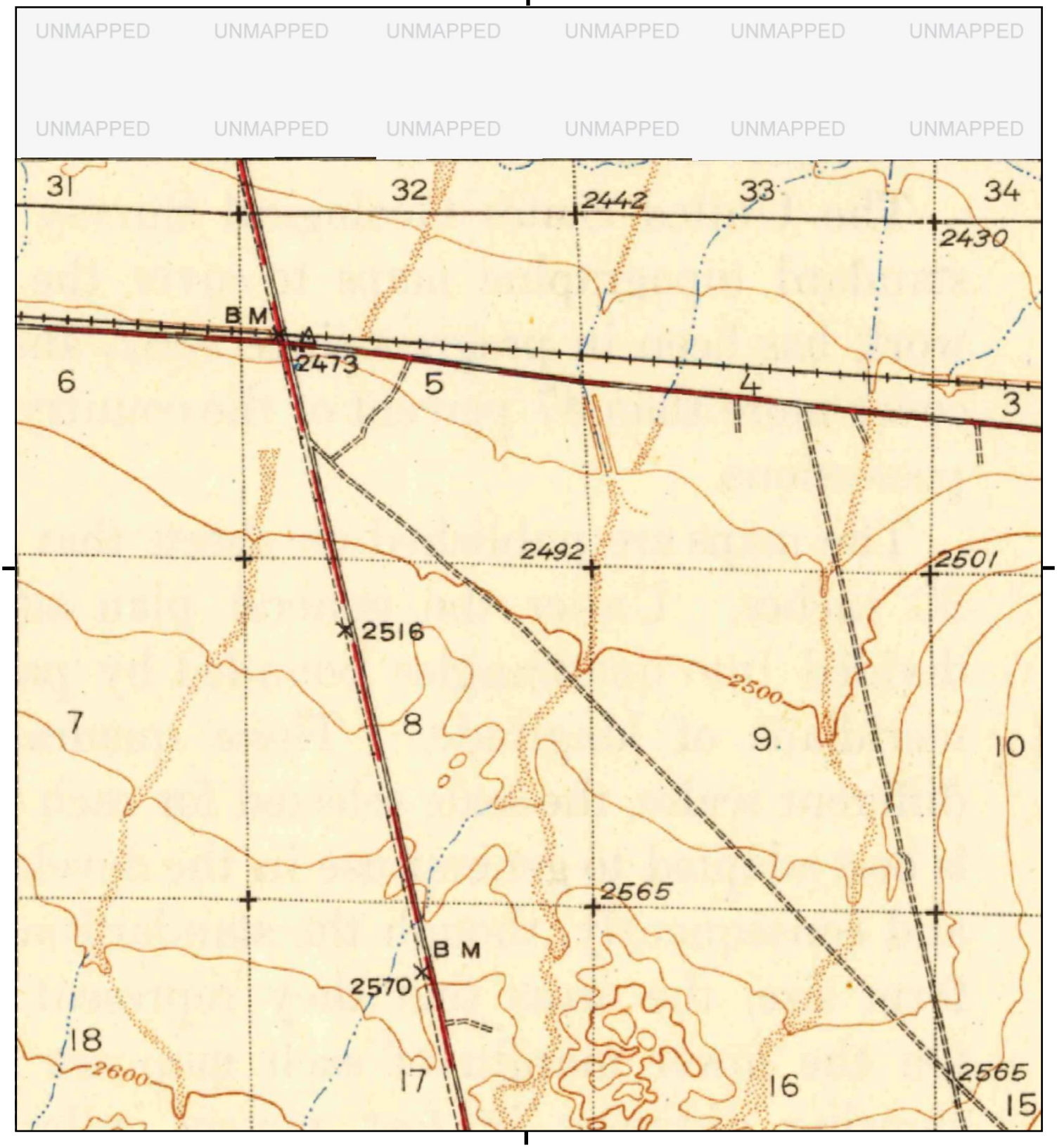

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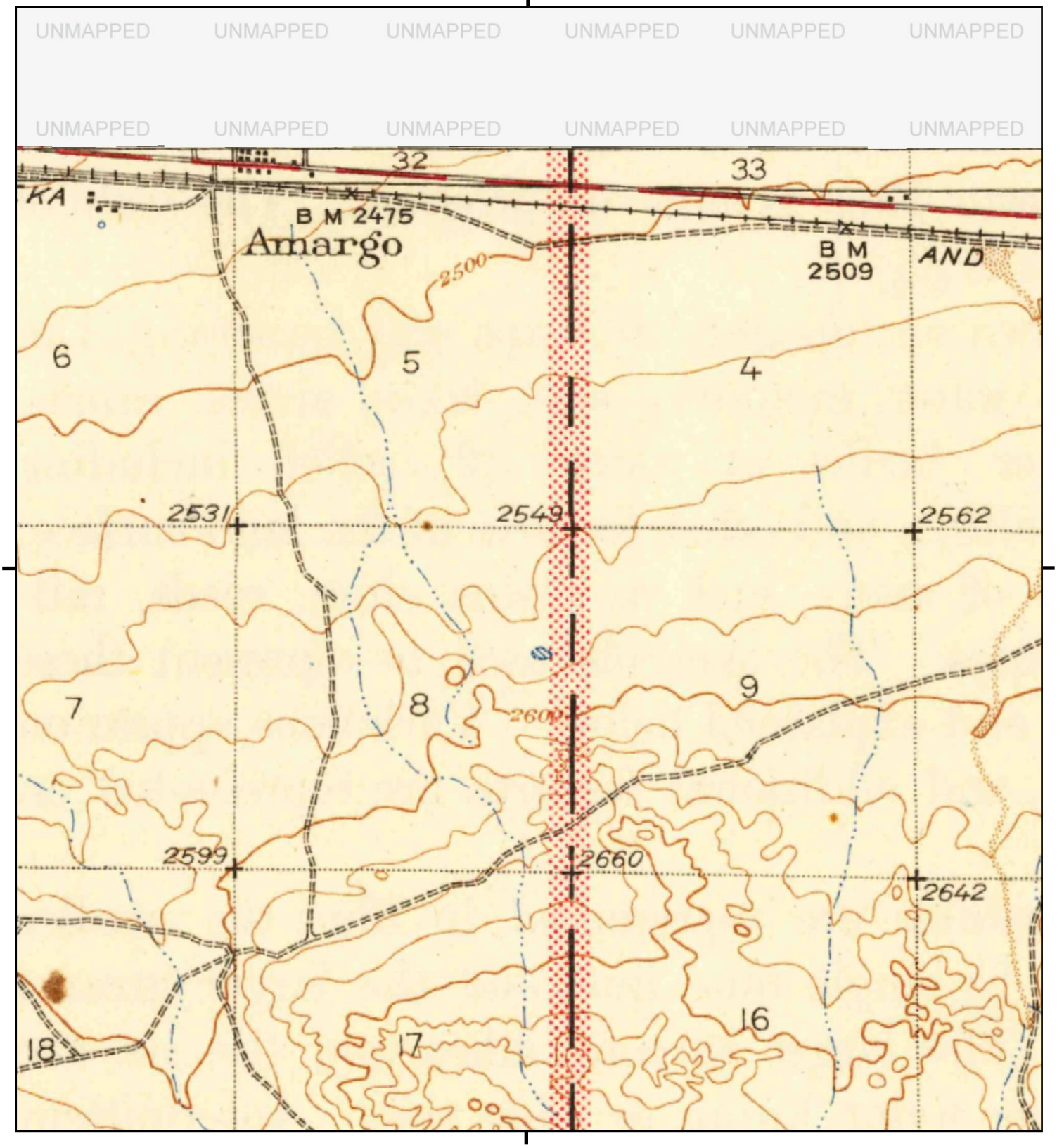

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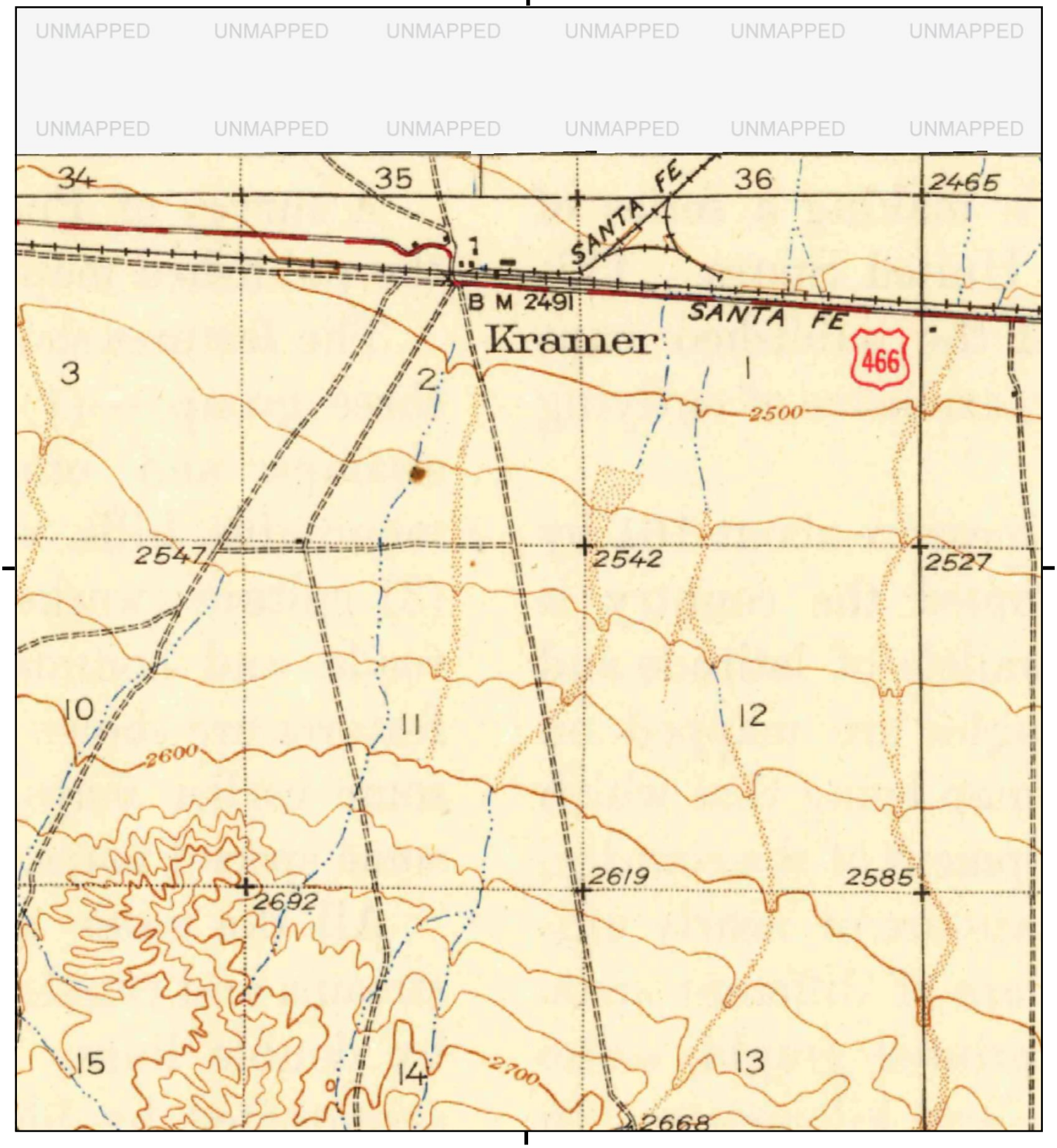

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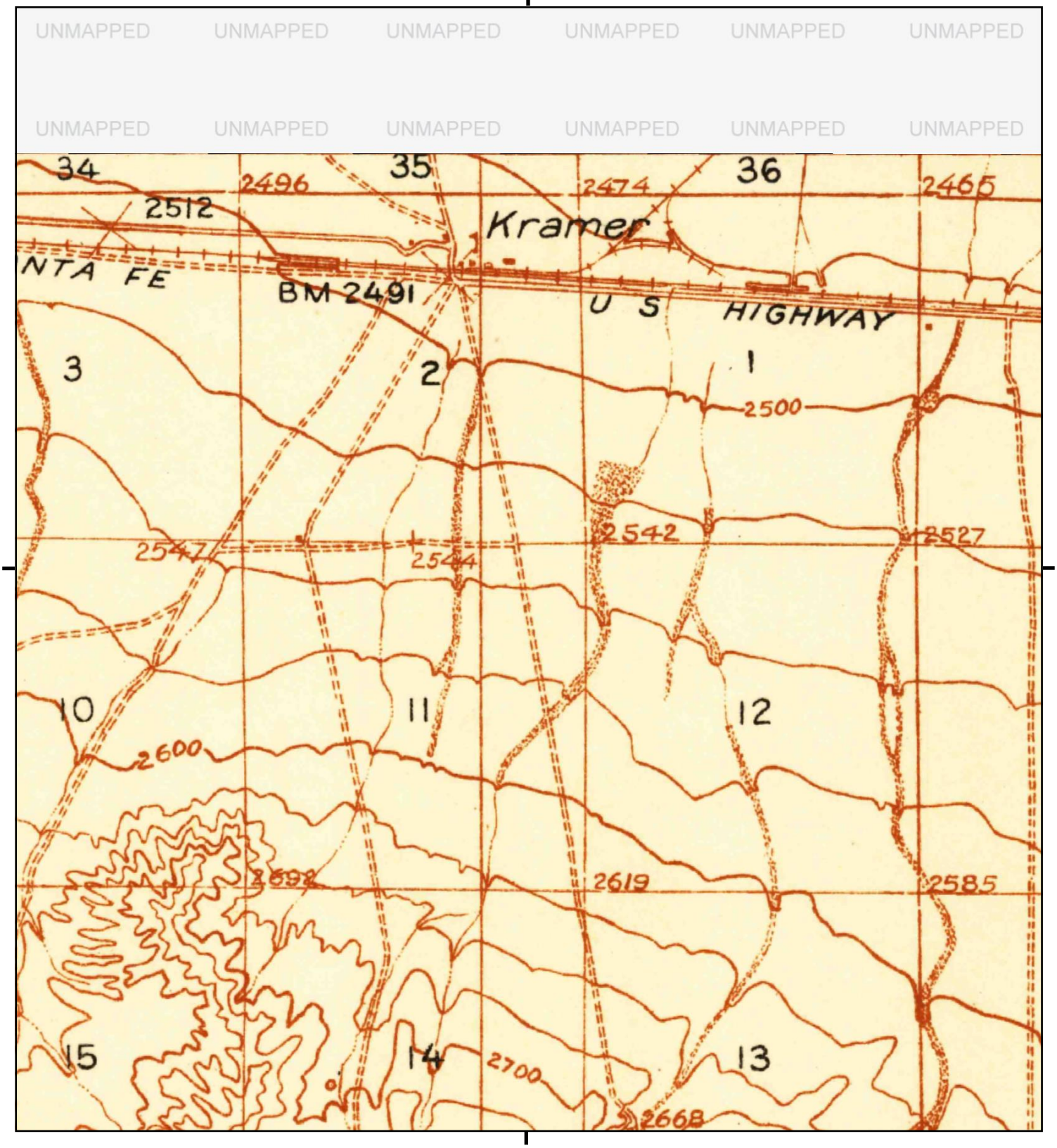

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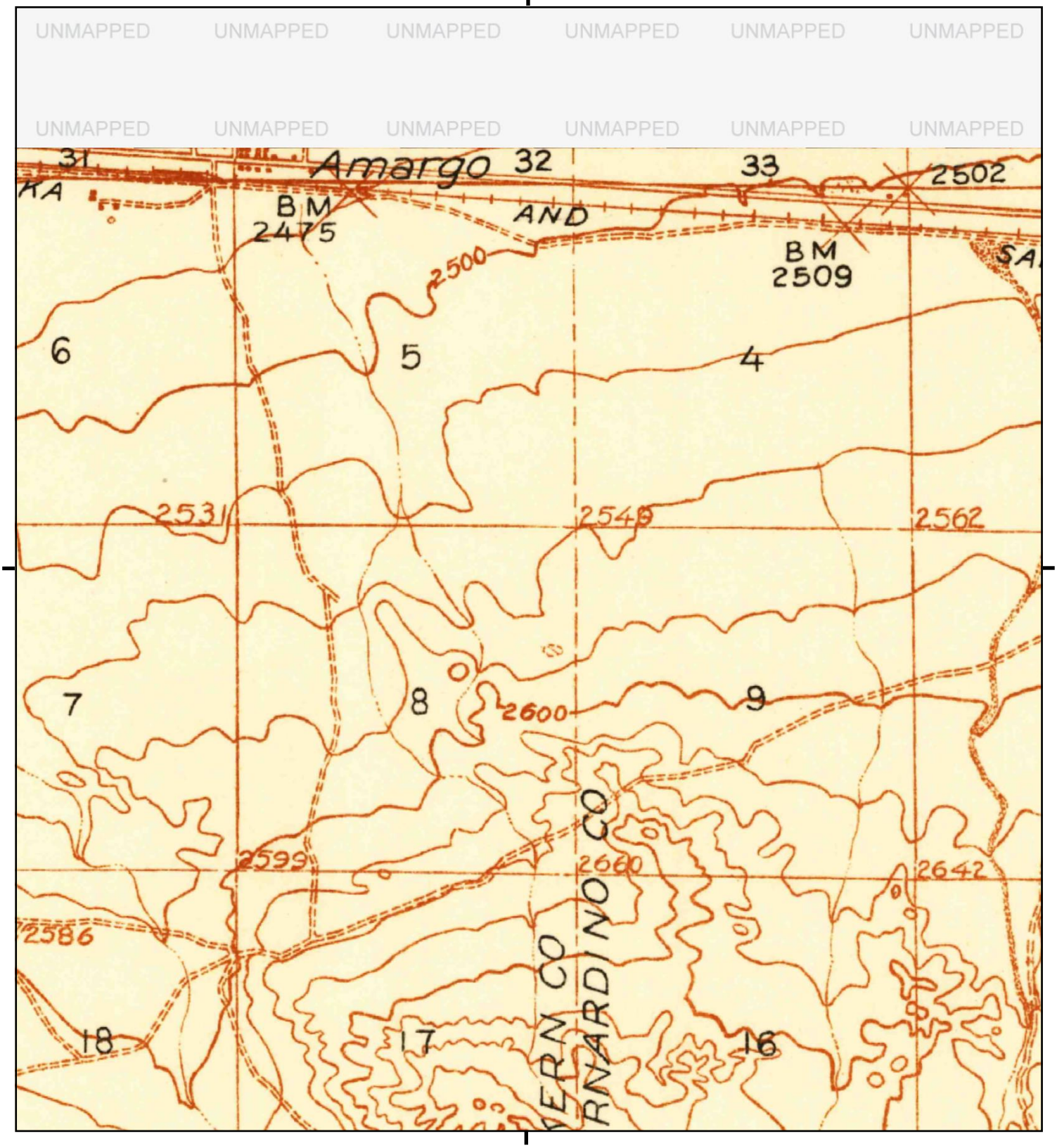

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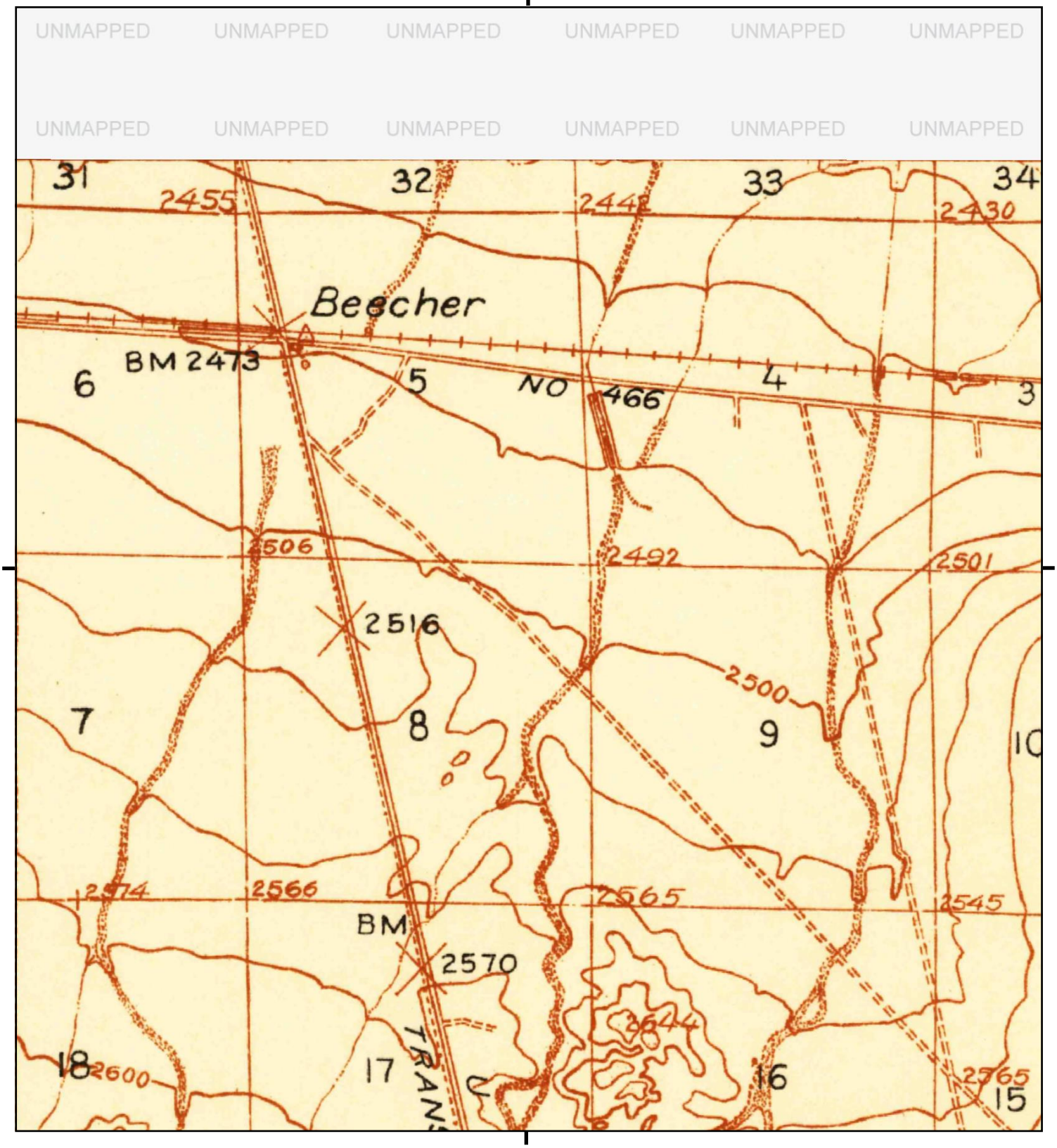

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Boron, CA 93516
CLIENT: Stantec

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Appendix F AGENCY RECORD

2705 0

File: 19-10-02
S.W.

EDWARDS AFB
CALIFORNIA

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 2705

File: 19-12-04
S.W.

2705 1

AR 2705

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE FLIGHT TEST CENTER (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

16 August 2001

MEMORANDUM FOR RECORD

SUBJECT: No Further Investigation (NFI) Status for Chemical Warfare Materiel at Site 437 (Mustard Cans, Picric Acid [Kramer Junction]) and Site 438 (Mustard Cans, Picric Acid [Kramer Junction]), Chemical Warfare Materiel Operable Unit No. 7, Edwards Air Force Base, California.

1. The undersigned have reviewed the site assessment associated with Sites 437 and 438 and are satisfied that the assessment is complete. Based on the regulations and laws in place at the time of closure, no further investigation is indicated at this time.

2. An electromagnetic (EM) geophysical survey was completed at Sites 437 and 438. The survey indicated that no buried debris trenches are present at the sites.

3. The site reconnaissance survey showed no stained soils or stressed vegetation.

4. A Site Summary Report (SSR) was submitted for Sites 437 and 438 to the RPMs on 25 May 2001. Based on the results of a review of historic aerial photographs and archival documents, and the results of the geophysical and reconnaissance surveys, it is unlikely that the site was used for the burial of chemical warfare materiel. For these reasons, the SSR recommends NFI at the sites.

5. It is important to note that this letter does not relieve Edwards AFB of further responsibilities mandated under CERCLA, the California Health and Safety Code, and California Water Code if additional or previously unidentified contamination at the subject sites causes or threatens to cause pollution, or is found to pose a significant threat to public health and the environment.

6. If you have any questions or comments, please call Mr. Robert W. Wood at (661) 277-1407.

We, the undersigned, concur with the above selected determination of No Further Investigation for Sites 437 and 438.

16 Aug 01
ROBERT W. WOOD DATE
Remedial Project Manager
U.S. Air Force

16 Aug 01
RICHARD T. RUSSELL DATE
Remedial Project Manager
U.S. Environmental Protection Agency
Region 9

8/16/01
JOHN A. O'KANE, JR. DATE
Remedial Project Manager
California Department of Toxic
Substances Control, Region 1

8/14/01
ELIZABETH LAFFERTY DATE
Remedial Project Manager
California Regional Water
Quality Control Board, Region 6

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

1041 0 File: 19-10-02
S.W.

EDWARDS AFB
CALIFORNIA

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 1041

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File: 19-07-07-6 1
S.W.

1041 1

AR 1041

United States Air Force
Flight Test Center
Environmental Management Office
Edwards AFB, CA

Installation Restoration Program

Addendum No. 2 to the
Site Investigation Summary Report
Chemical Warfare Materiel
Sites 434, 435, 436, 441, 445, and 457
Sites 437 and 438 - Suspected Burial Locations for Mustard (HD) Cans, Picric Acid, and AN-M120 Fuses
Operable Unit No. 7

Final

January 2002

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Building 2650A
Edwards AFB, CA

EMW-CA7-95A-2002

1041 2

INSTALLATION RESTORATION PROGRAM
ADDENDUM NO. 2 TO THE
SITE INVESTIGATION SUMMARY REPORT
CHEMICAL WARFARE MATERIEL SITES 434, 435, 436, 441, 445, AND 457

SITES 437 AND 438 - SUSPECTED BURIAL LOCATIONS FOR MUSTARD (HD) CANS, PICRIC ACID, AND AN-M120 FUZES
OPERABLE UNIT NO. 7
EDWARDS AIR FORCE BASE
CALIFORNIA

JANUARY 2002

FINAL

Prepared by

EARTH TECH, INC.
100 WEST BROADWAY, SUITE 240
LONG BEACH, CA 90802

Prepared for

U.S. AIR FORCE FLIGHT TEST CENTER
ENVIRONMENTAL RESTORATION DIVISION (AFFTC/EMR)
EDWARDS AIR FORCE BASE, CA 93524-1130

and the

IRP PROGRAM OFFICE
U.S. AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE
ENVIRONMENTAL RESTORATION DIVISION (AFCEE/ERD)
BROOKS AIR FORCE BASE, TX 78235-5363

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Edwards AFB, CA

NOTICE

This Site Investigation Summary Report Addendum has been prepared for the U.S. Air Force by Earth Tech, Inc., under the U.S. Air Force Installation Restoration Program (IRP). As the report relates to potential or actual releases of hazardous substances, its publication prior to a U.S. Air Force final decision on removal action may be in the public's interest. The limited objectives of this document and the ongoing nature of the IRP, along with the evolving knowledge of site conditions and chemical effects on the environment and health, must be considered when evaluating this report, because subsequent facts may become known which may make this report premature or inaccurate. Acceptance of this report in performance of the contract under which it is prepared does not mean that the U.S. 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 U.S. Air Force.

PREFACE

This document presents the Installation Restoration Program Addendum No. 2 to the Site Investigation Summary Report, Chemical Warfare Materiel (CWM) Sites 434, 435, 436, 441, 445, and 457: Sites 437 and 438 - Suspected Burial Locations for Mustard (HD) Cans, Picric Acid, and AN-M120 Fuzes, Operable Unit 7, Edwards Air Force Base, California. The purpose of this report is to document the review of archival materials (literature, historic maps, and aerial photographs), to document site reconnaissance activities, to document geophysical surveys, and recommend these CWM sites for No Further Investigation (NFI). The document has been prepared in accordance with the requirements of Contract No. F41624-97-D-8018, Delivery Order No. 40, between the U.S. Air Force and Earth Tech.

The AFCEE Team Chief is David Leeson. The Edwards AFB Project Manager is Rebecca Hobbs. The Earth Tech Program Manager is Ray Sugiura. The Earth Tech Project Manager is Joan Siegal.

Approved:

Ray Sugiura, Program Manager
California RG, No. 3579

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LIST OF ABBREVIATIONS AND ACRONYMS

AFB	Air Force Base
AFCEE/ERD	Air Force Center for Environmental Excellence/Environmental Restoration Division
AFFTC/EMR	Air Force Flight Test Center/Environmental Restoration Division
CWA	chemical warfare agent
CWM	chemical warfare materiel
EAFB	Edwards Air Force Base
EM	electromagnetic induction
GIS	geographic information system
GPR	ground penetrating radar
H	mustard
HD	distilled mustard
IRP	Installation Restoration Program
msl	mean sea level
NFI	no further investigation
PB	precision bombing (target)
PIRA	Precision Impact Range Area
RG	registered geologist
USGS	United States Geological Survey

EXECUTIVE SUMMARY

A remedial investigation was conducted at Sites 437 and 438 - Suspected Burial Locations for Mustard (HD) Cans, Picric Acid, and AN-M120 Fuzes in 2000. The investigation consisted of archival research, aerial photograph review, field reconnaissance activities, and geophysical surveys.

A map discovered during the archival research indicated that mustard (HD) cans, picric acid, and AN-M120 fuzes may have been disposed at Sites 437 and 438. The map, dated 1953, was hand-traced and annotated with circled-X symbols at the location of the sites, and had a margin note listing live fuzes, mustard cans and picric acid. The two sites, however, are located at the northeastern corner of the Base boundary far from any known use of chemical warfare agents.

Aerial photographs dating from 1945 to 1992 were reviewed. A field reconnaissance survey was conducted in October 1999. The review of the aerial photographic record did not support the identification of the sites as disposal areas. No evidence of burial or surface disposal of mustard cans or AN-M120 fuzes was found during the field reconnaissance.

Because the sites are within a mile of the town of Kramer Junction, geophysical surveys were conducted to search the area for burial trenches. The geophysical surveys employed the electromagnetic induction method using the Geonics EM61 buried metal detector. No trenches were detected.

Based on the results of the archival research, aerial photograph review, and geophysical surveys, no further investigation is recommended at these sites.

1.0 INTRODUCTION

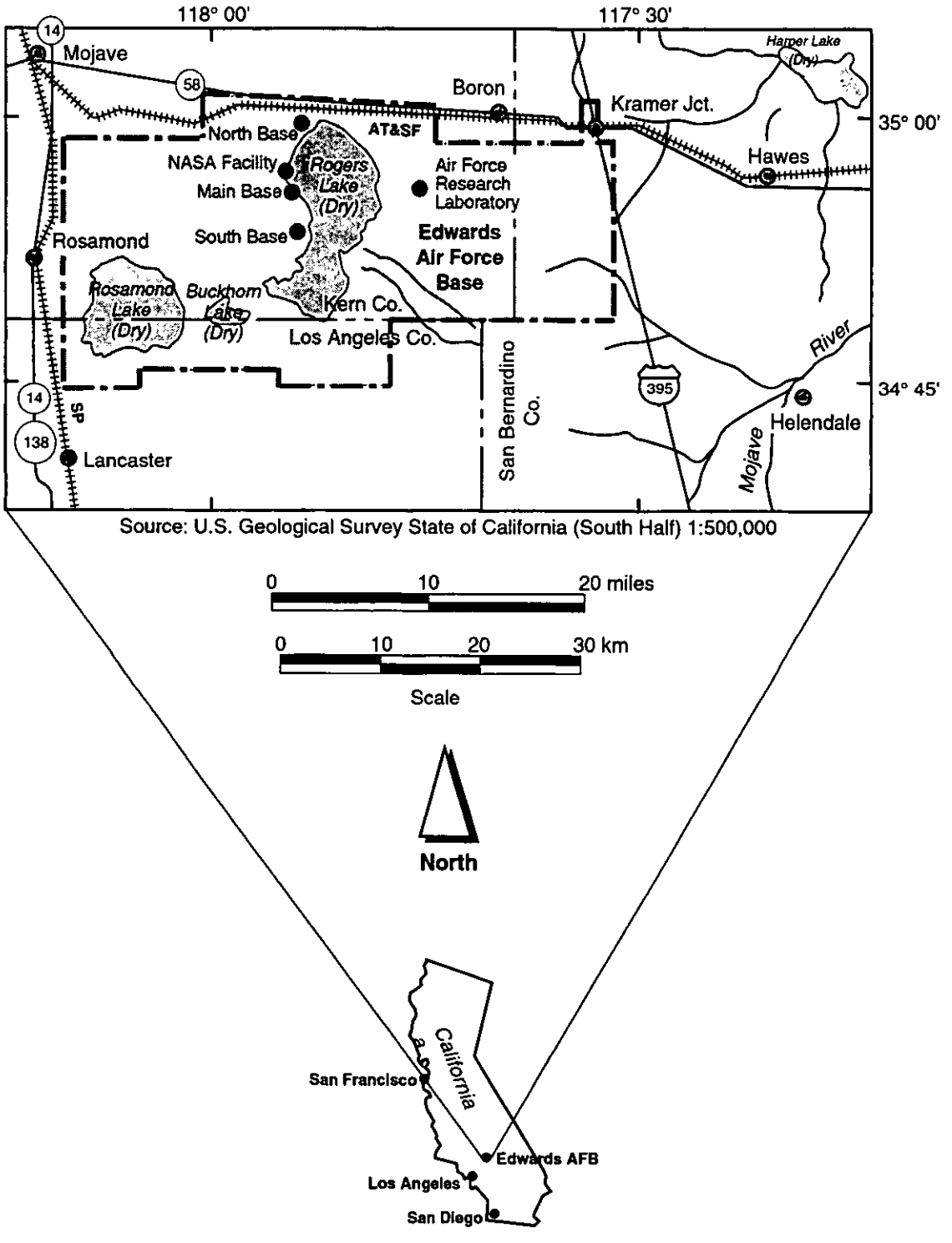
This Site Investigation Summary Report Addendum presents a summary of archival research, field reconnaissance activities, and geophysical surveys conducted at Sites 437 and 438 - Suspected Burial Locations for Mustard (HD) Cans, Picric Acid, and AN-M120 Fuzes. The work was conducted as part of a larger program designed to evaluate potential hazards and contamination at suspected Chemical Warfare Materiel (CWM) disposal and testing sites active primarily from the early 1940's to mid-1950's at Edwards AFB.

Edwards AFB is located in the Mojave Desert physiographic region of southeastern Kern County and western San Bernardino County, California. The base occupies approximately 470 square miles of high desert area approximately 60 miles north of Los Angeles (Figure 1-1).

Site 437 is located 0.5 miles east of U.S. Highway 395 and 0.9 miles south of State Highway 58 at the north end of the eastern boundary of Edwards AFB. The area is posted with weathered illegible boundary signs and is not fenced. It is used by the public for camping and shooting. The town of Kramer Junction is located 0.6 miles northwest of the site (Figure 1-2).

Site 438 is located 0.4 miles west of U.S. Highway 395 and 0.5 miles south of State Highway 58. The site extends to within 200 feet of the southwest corner of the large electric power distribution facility located at the southern limit of the town of Kramer Junction. The area is not posted and not fenced. There is an unpaved road across the northern part of the site that is used by the public.

The sites were thought to be potential burial locations for mustard cans, picric acid, and AN-M120 fuzes.



CWM SI Report Addendum 2 **Location Map** **Edwards Air Force Base**		
Date 01-02 Project No. 35052	Edwards AFB	Figure **1-1**

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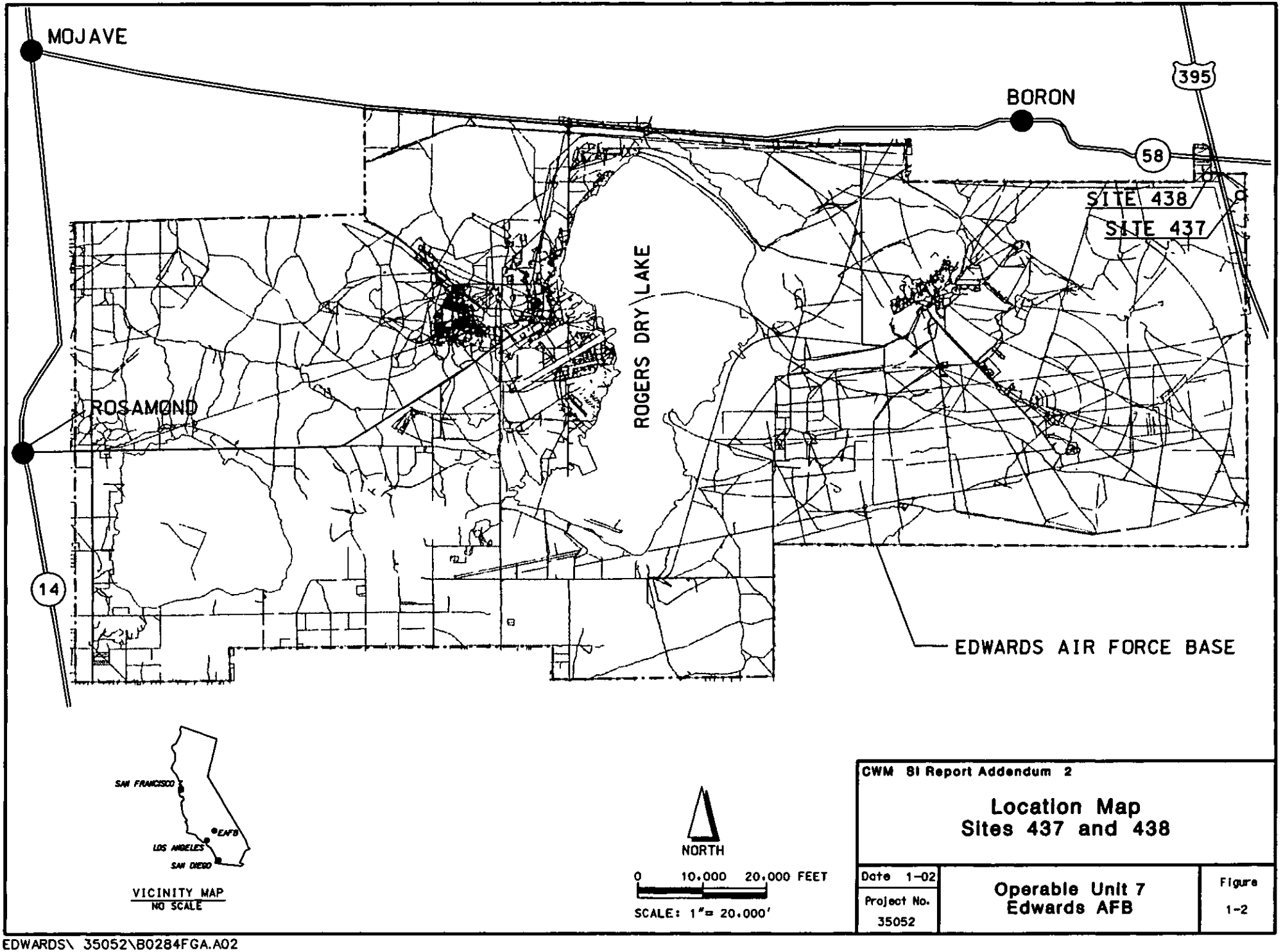

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2.0 METHODS

Sites were investigated by examining archival literature and historic maps and through aerial photograph interpretation. Further characterization was accomplished by conducting a field reconnaissance of Sites 437 and 438 and geophysical surveys. The procedures used for conducting the investigation are discussed in the following sections.

2.1 ARCHIVAL LITERATURE SEARCHES

The procedures for archival literature searches are described in SciTech Services, Inc. (2000) and in Section 2.1 of the Site Investigation Summary Report (Earth Tech 2000).

2.2 HISTORICAL AERIAL PHOTOGRAPHS AND MAPS REVIEW

The procedures for the historical aerial photographs and maps review are described in Section 2.2 of the Site Investigation Summary Report (Earth Tech 2000).

2.3 FIELD RECONNAISSANCE

The field reconnaissance surveys at Sites 437 and 438 were completed on 1 October 1999. The purpose of the surveys was to field verify suspect areas identified during the aerial photograph search and to identify features not readily seen in aerial photographs. Burial sites may be identified by features such as localized topographic changes (i.e., surface mounding or subsidence), changes in vegetation cover (i.e., density, height, or type), surface disturbance at and adjacent to the burial site, and changes in surface soil characteristics (i.e., color, texture, or type).

Field reconnaissance procedures are described in Section 2.3.2 of the Site Investigation Summary Report (Earth Tech 2000).

2.4 GEOPHYSICAL SURVEYS

Geophysical surveys using the electromagnetic induction (EM) technique were conducted between 26 February and 7 March 2000. An EM survey aims at detecting subsurface metal such as the remains of bombs, metal drums, other containers, or parts of apparatus, by detecting the secondary magnetic field created by eddy currents induced in the metal. The EM61 instrument can detect a single 55-gallon drum to a depth of about 9 feet. These surveys were conducted on lines forming a square grid with a 50-ft x 50-ft mesh within a survey area of 1400 ft by 1400 ft. The instrument's detection range covers about a 10-ft-wide strip horizontally, so that within a 50-ft by 50-ft area there is a 40-ft by 40-ft area that is uncovered.

3.0 RESULTS AND DISCUSSION

Sites 437 and 438 were investigated by examining archival literature and historic maps, by archival aerial photograph interpretation, by field reconnaissance of the sites, and finally by geophysical surveys.

3.1 REVIEW OF ARCHIVAL MATERIALS

Sites 437 and 438 were selected for investigation because of documentary evidence that mustard (HD) cans, picric acid, and AN-M120 fuzes may have been disposed at these sites (Table 3-1). The evidence was a single map:

- A copy of a hand traced and annotated map (scale 1 mile = 1.4 inches) entitled "Test Facilities Edwards Air Force Base" dated "4 Feb 53" showed "shaded areas are danger zones" (target vicinities) and several undefined circled-X symbols which are thought to mark burial locations of live AN-M120 fuzes, mustard cans and picric acid. These items are listed in a note in the right margin of the map shown in Figure 3-1 (Appendix B, U.S. Air Force 1953). Sites 437 and 438 are each marked with a circled-X. The diameters of the circles were calculated to be approximately 1,400 feet.

However, there is also archival evidence that suggests that it is unlikely that the area was used for disposal of chemical munitions materiel:

- Target PB-6 is shown on the Archives Search Report, Conventional Ordnance, Plate E-1 (U.S. Army Corps of Engineers 1994a) as the nearest WWII target to Sites 437 and 438, at distances of 2.7 and 2.5 miles, respectively.

- On 13 September 1944, Lt. Col. Robert C. Whipple, Director of Operations of the 421st AAF Base Unit, wrote to the Commander of Muroc Army Airfield (now Edwards AFB) regarding "Non-availability of Space for Additional Target Projects on the Muroc Danger Area" (421st AAF Base Unit 1944). Among the Muroc Range facilities he listed was target PB-6, used for day and night bombing. Target PB-6 was not listed as part of the Aberdeen Bombing Mission, which included testing of chemical munitions. Such testing was conducted at Target PB-Chem, nearly 14 miles from Sites 437 and 438.

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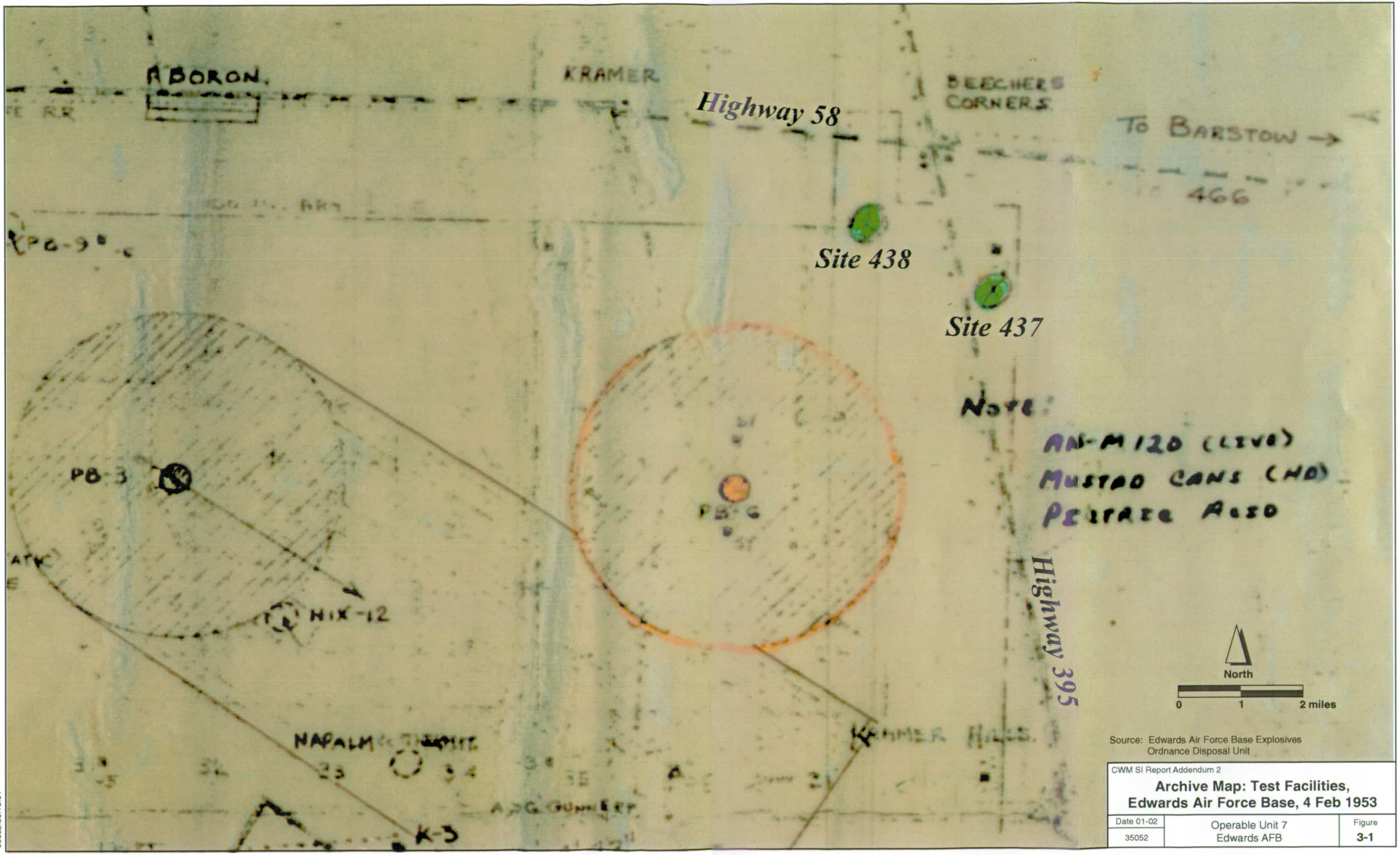
TABLE 3-1. REVIEW OF ARCHIVAL MATERIALS INDICATING POTENTIAL ACTIVITIES AND CHEMICAL USE AT SITES 437 AND 438

Agent/Chemical	Type of Containers	Reference or Map Dates	Comments
Chemical operations, non-agent specific			
		9/13/44	Letter about non-availability of space for additional target projects states that old target PB-6 was in use for day and night bombing. This is the target nearest Sites 437 and 438. No mention is made of CWA usage.
Chemical Warfare Agents			
Mustard (H, HD)	Bomb fill, 5-gallon cans, 55-gallon drums	8/23/44 1/25/45 6/14/45 8/2/45 1/27/47	M70, 115-lb. H-filled bombs listed in Muroc bombing test tables, as well as in the overall U.S. Army Air Corps test program. In 1945, Muroc Base Supply sought disposition of 414 bombs, practice, chemical - M47A2 100-lb. (Note: this bomb may have been H-filled). Activities at Muroc reported for week of 1/24/47 include dropping of chemical bombs (115-lb. M70 [Note: this bomb may have been H-filled]).
		Map 2/53	Circled-X symbols mark Sites 437 and 438. Note: "AN-M120 (live), mustad (sic) cans (HD), pictric (sic) acid".
Military Chemicals			
Picric acid	Fuze	Map 2/53	Circled-X symbols mark Sites 437 and 438. Note: "AN-M120 (live), mustad (sic) (HD) cans, pictric (sic) acid".



Source: Edwards Air Force Base Explosives Ordnance Disposal Unit

CWM SI Report Addendum 2

Archive Map: Test Facilities, Edwards Air Force Base, 4 Feb 1953

Date 01-02	Operable Unit 7 Edwards AFB	Figure 3-1
35052		

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3.2 PHOTOGRAPHIC RECORD

Aerial photographs from 1945 to 1992 were researched. Figures 3-2 and 3-3 show aerial photographs of the two site areas as they were in 1945 and 1992, respectively. The historical context can be seen in the "Features" column of Tables 3-2 and 3-3. In 1945, U.S. Highway 466 (predecessor to Highway 58) ran east-west, about a mile north of the two sites, through the town of Beechers Corners (now named Kramer Junction) crossing Highway 395. The AT&SF Railroad ran parallel to, and just north of the highway, as it does today.

A dirt road branched southeastward from Highway 395 about 0.3 miles south of Beechers Corners and crossed the northeastern margin of Site 437. The road is shown on the 1946 Army Map Service Kramer 7.5' map, but not on the 1973 USGS Kramer Junction 7.5' map, where suburban developer's roads have replaced it. The road is still visible, but is little used.

At Site 438, there were no trails but there was a lighter shaded (cleared) east-west strip across the southern half of the site and westward, possibly from agricultural activities. This strip is still detectable in 1992 color aerial photos, but not apparent from the ground.

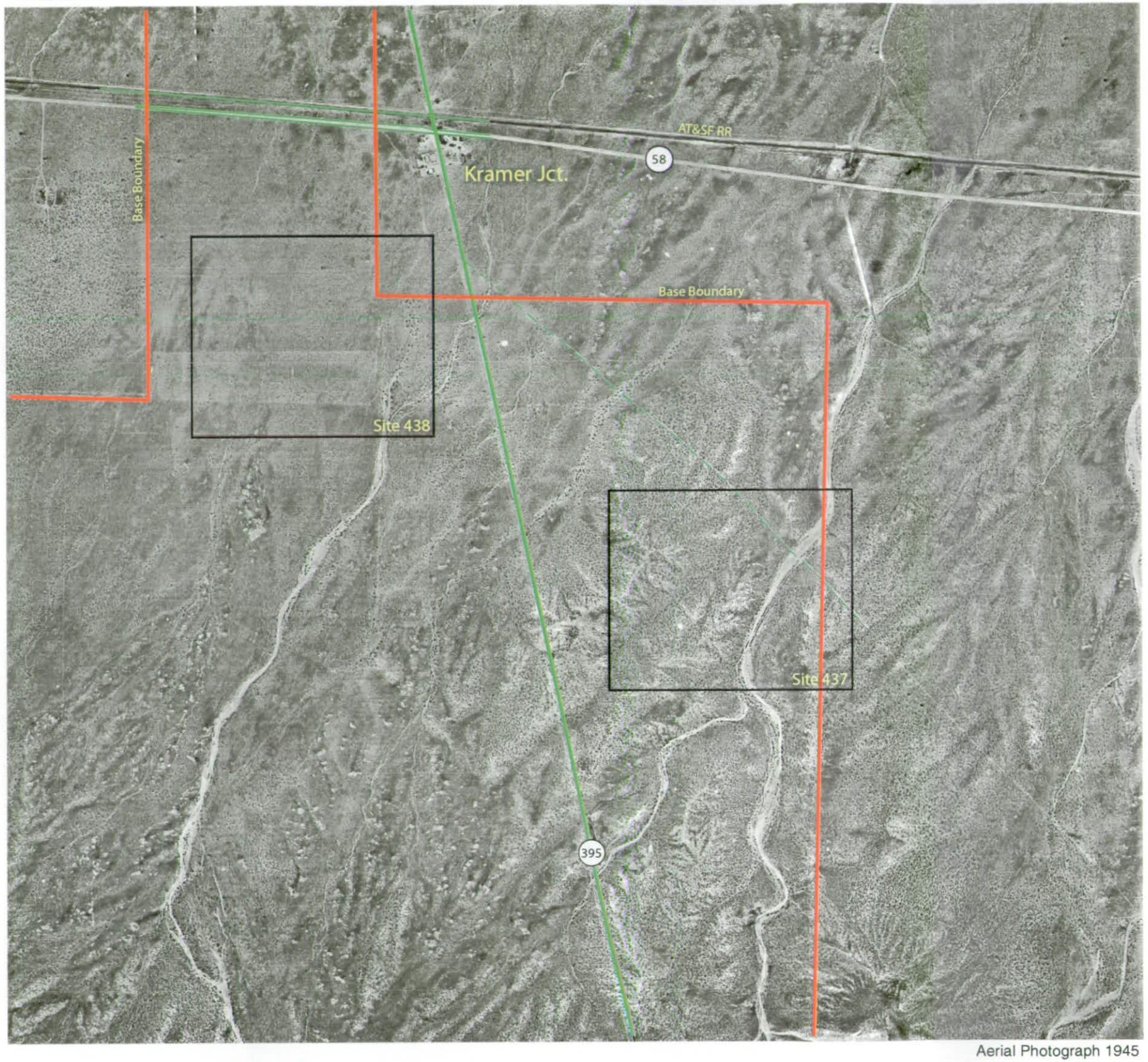
Aerial photographs taken in 1953, 1956, 1963, and 1992 showed a progressive buildup of power lines, pipe lines, development roads, and Kramer Junction buildings, but did not show evidence of military activity related to disposal by burial or surface dumping.

3.3 ENVIRONMENTAL SETTING

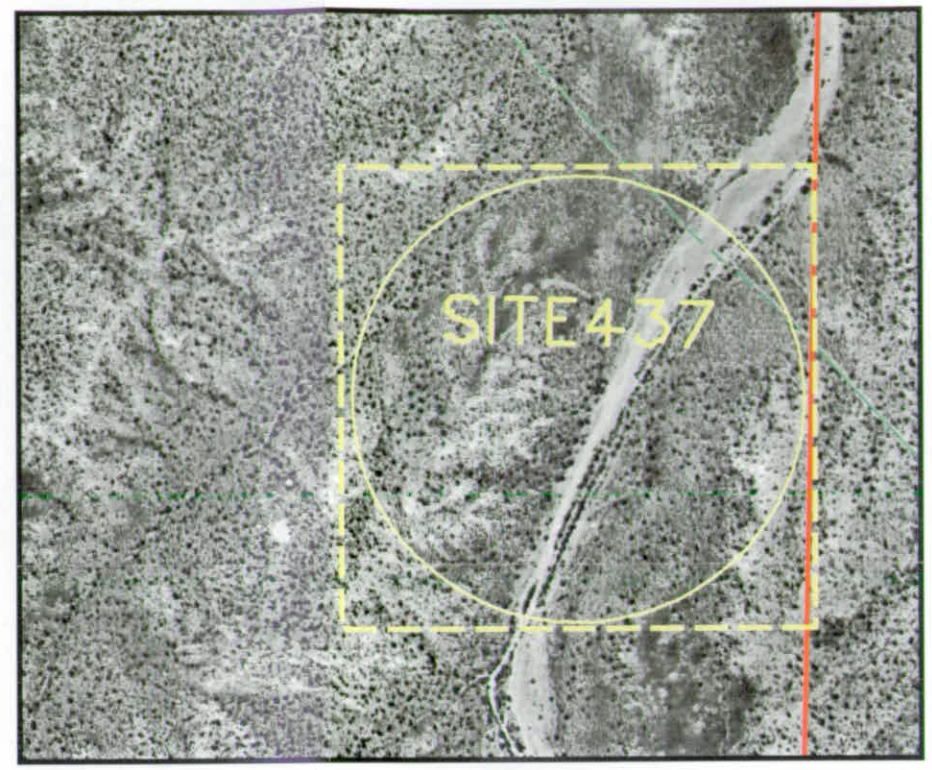
3.3.1 TOPOGRAPHY AND SURFACE DRAINAGE

Sites 437 and 438 lie on alluvium that slopes northward at a 1% grade. Site 437 has a relief of 25 feet due to drainage sculpting. A dry wash goes through the center of it. Site 438 has nearly a plane surface. Both sites are at an elevation of approximately 2,500 feet mean sea level (msl).

The foliage on Site 437 is salt bush, creosote bush, and Joshua trees. Site 438 has been cleared, except for a Joshua tree, and short foliage has regrown.



Aerial Photograph 1945



Site 437 inset
Scale 1"=600'

Site 438 inset
Scale 1"=600'

North

0 660 1,320 ft

Scale 1"=1,320'

Explanation

Current site conditions (roads and structures)

Geophysical Survey Area

Note: Site locations based on 1953 Test Facilities map.

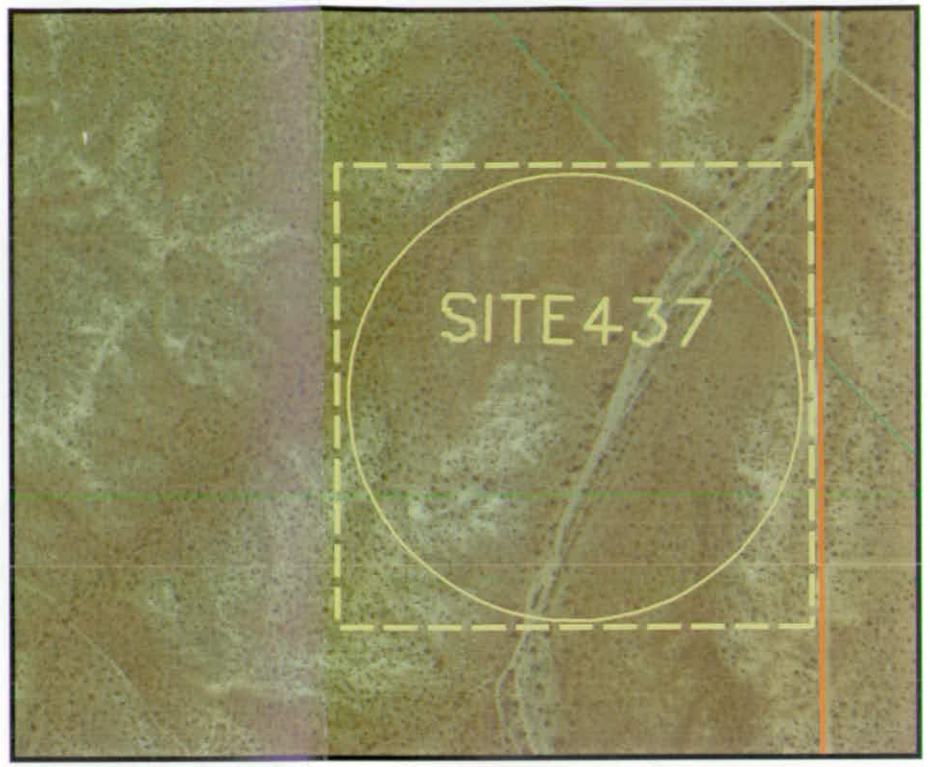
CWM SI Report Addendum 2

Sites 437 & 438
1945 Photo

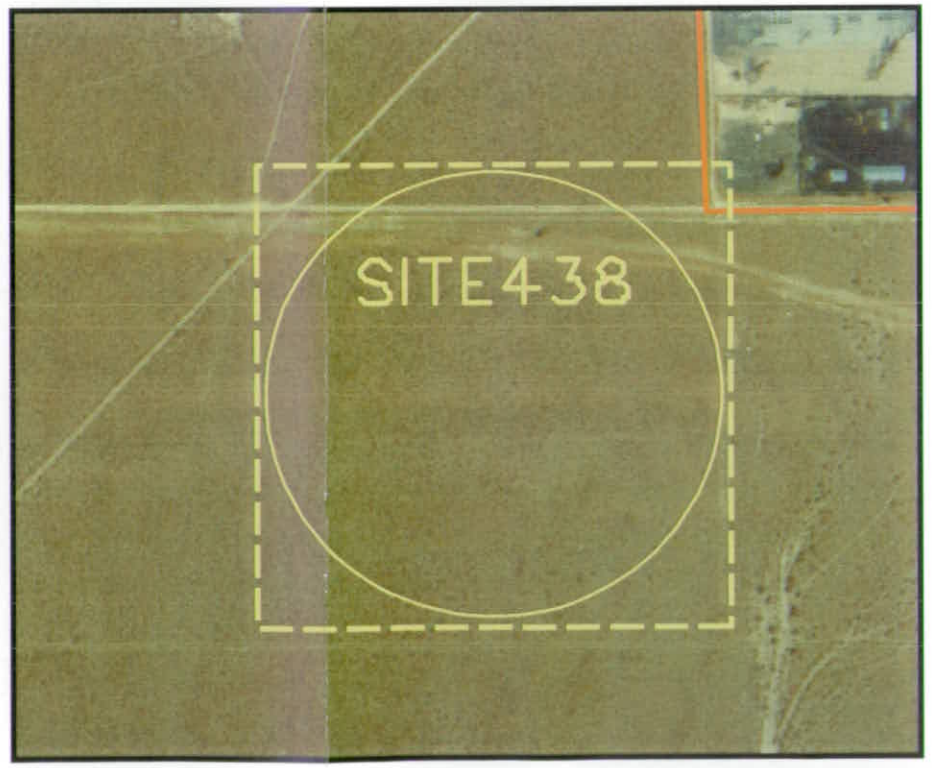
Date 01-02	Edwards AFB	Figure
Project No. 35052		3-2

35052.30.13.01

Aerial Photograph 1992



Site 437 inset
Scale 1"=600'



Site 438 inset
Scale 1"=600'

North

0 660 1,320 ft

Scale 1"=1,320'

Explanation

Current site conditions (roads and structures)

Geophysical Survey Area

Note: Site locations based on 1953 Test Facilities map.

CWM SI Report Addendum 2

Sites 437 & 438
1992 Photo

Date 01-02	Edwards AFB	Figure 3-3
Project No. 35052		

35052.30.13.01

TABLE 3-2. SITE 437 PHOTOGRAPHIC RECORD

Date	Flight	Frame	Features
7/17/45	VV16PS-M:1-311RW-5M202	173 174 216	No activity on site. Prominent drainage channel (trend NNE) bisects site. Dirt road originating from Hwy 395 crosses the northeast margin of the site and continues southeast. The road appears unrelated to the site. AT&SF Railroad and U.S. Hwy 466 (predecessor to Hwy 58) run E-W north of the site. Hwy 395 runs N-S west of the site. Town of Beechers Corners (now Kramer Junction) is 1.2 miles northwest of the site. Several N-S trending drainage channels are visible on the photograph.
2/2/53	AXL	35K-170 35K-171	No significant change on site from 1945 photographs. Increased development of Kramer Junction. Pipeline road/trench scar appears E-W about 0.6 miles north of site. N-S trending drainage channels are less prominent and have been overgrown with vegetation.
2/2/56	C-22395	1-10 1-11	Relief is more visible than in previous photographs. No activity on site. Increased development of Kramer Junction; new building complex appears in the northeast corner of intersection of Hwy 58 and Hwy 395.
4/16/63	M-73 AST-6 1370PMW	609 635	No significant change on site from previous photographs. Power lines/road appear a quarter-mile NE of site. A second pipeline construction road/trench scar appears E-W just north of the earlier pipeline. Appearance of electrical power distribution complex in south Kramer Junction west of Hwy 395. Suburban development roads appear east of the site.
8/8/92	17 (EAFB mapping series by GRW Engineering)	382	No activity at site. The suburban "development" roads east of the site remain, but no development was made.

TABLE 3-3. SITE 438 PHOTOGRAPHIC RECORD

Date	Flight	Frame	Features
7/17/45	VV16PS-M:1-311RW-5M202	174 175	No activity on site. AT&SF Railroad and U.S. Hwy 466 (predecessor to Hwy 58) run E-W north of the site. Hwy 395 runs N-S east of the site. Town of Beechers Corners (now Kramer Junction) is very near the site, just northeast of it. There are no trails related to the mapped location of the site. There is a once cleared, or once plowed, E-W strip (550' x 2360') that crosses the south half of the site and westward. The strip is partially visible in a 1942 photograph. Probably done by a farmer in the 1930's.
3/3/53	AXL	50K-191 50K-192 50K-193	No activity on site. Pipeline and power line appear E-W just south of Kramer Junction. The once cleared strip of land is quite visible. Target PB-6 appears in good condition 2.5 miles southwest of the site.
2/2/56	C-22395	1-11 1-12	No activity on site. First appearance of "Tracking Station" (USGS 7.5' map, 1973) or Cinetheodolite A-1. Increased development of Kramer Junction; new building complex appears in the northeast corner of intersection of Hwy 58 and Hwy 395.
4/16/63	M-73 AST-6 1370PMW	607 637	No activity on site. Power line appears at the NW margin of the site. Appearance of electrical power distribution complex in south Kramer Junction west of Hwy 395 at the NE margin of the site.
8/8/92	17 (EAFB mapping series by GRW Engineering)	383	No activity on site, though more activity around it.. Most of today's features are present. The once cleared strip is barely detectable.

1041 21

3.3.2 GEOLOGY AND HYDROGEOLOGY

The geology at Sites 437 and 438 consists of unconsolidated sediments overlying weathered granitic bedrock at depth.

Depth to groundwater is unknown but may be greater than 200 feet based on the water level in a well three miles to the east, which was dry at 202 feet (Earth Tech 1994). The direction of flow is presumed to be north paralleling the surface drainages, then east in the direction of Harper Lake.

3.4 FIELD RECONNAISSANCE

Base maps of scale 1"=200' showing all surface features were produced for the field reconnaissance. A 1,400-foot long by 1,400-foot wide area with search traverse lines at 150-ft spacing was plotted on each map. Field reconnaissance was conducted from 30 September to 1 October 1999. First, an overview of the site was obtained by viewing them from a truck driven on power line roads, development roads, and trails. The sites were then walked in a three-person line, each person observing 75 ft to the right and left. Field notes recorded during the reconnaissance are reproduced in Appendix A.

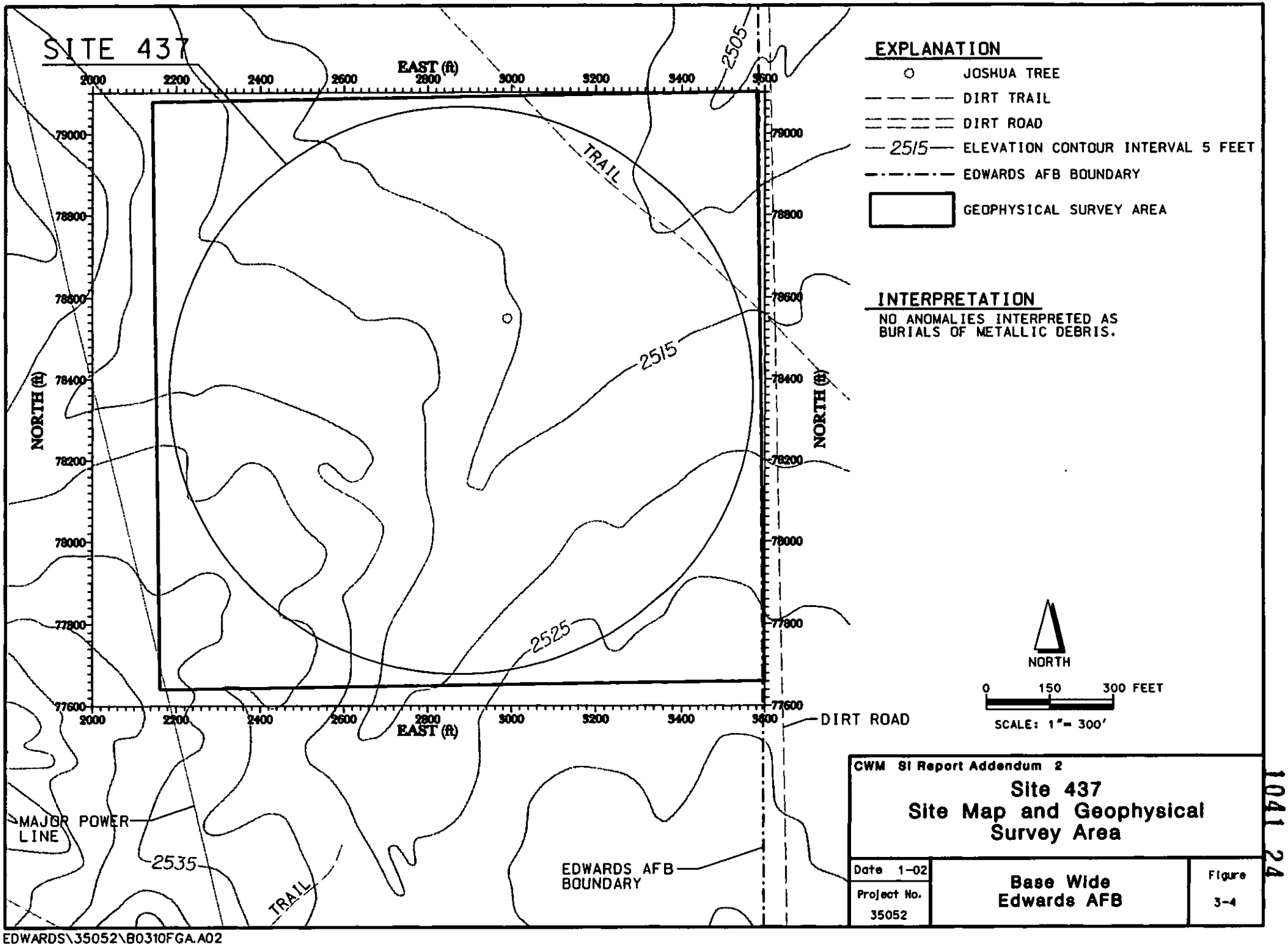
At Site 437, reconnaissance driving showed the surroundings are used for public recreation and dumping (bullet and shotgun cartridge casings, littered cans, bottles, household refuse, construction trash, junked automobile and auto parts, etc.). There is no Base fence, and Base signs are so weathered as to be illegible. Foot traverses also showed littered cans, bottles, and household refuse, but no evidence of military disposal.

At Site 438, there are no Base signs, and no Base fence. Buried high-pressure natural gas pipelines cross the northern part of the site and the public drives the dirt road paralleling the pipelines. There is almost no litter, and again there is no evidence of military disposal.

3.5 GEOPHYSICAL SURVEYS

The EM survey of Site 437 covered the area shown in Figure 3-4. The resulting EM contour map is shown in Figure 3-5. The EM contour map shows no anomalies that are interpreted as burials of metal. The dense contours in the lower left corner of the map are caused by interference from a high voltage power line overhead (the interference was checked by doing a survey line under the power line in a different location).

The EM survey of Site 438 covered the area shown in Figure 3-6. The resulting EM contour map is shown in Figure 3-7. The EM contour map shows no anomalies that are interpreted as burials of metal. The dense contours in the upper part of the map are caused by two high-pressure natural gas pipelines beneath the ground surface (the pipelines are identified by signs along their route).



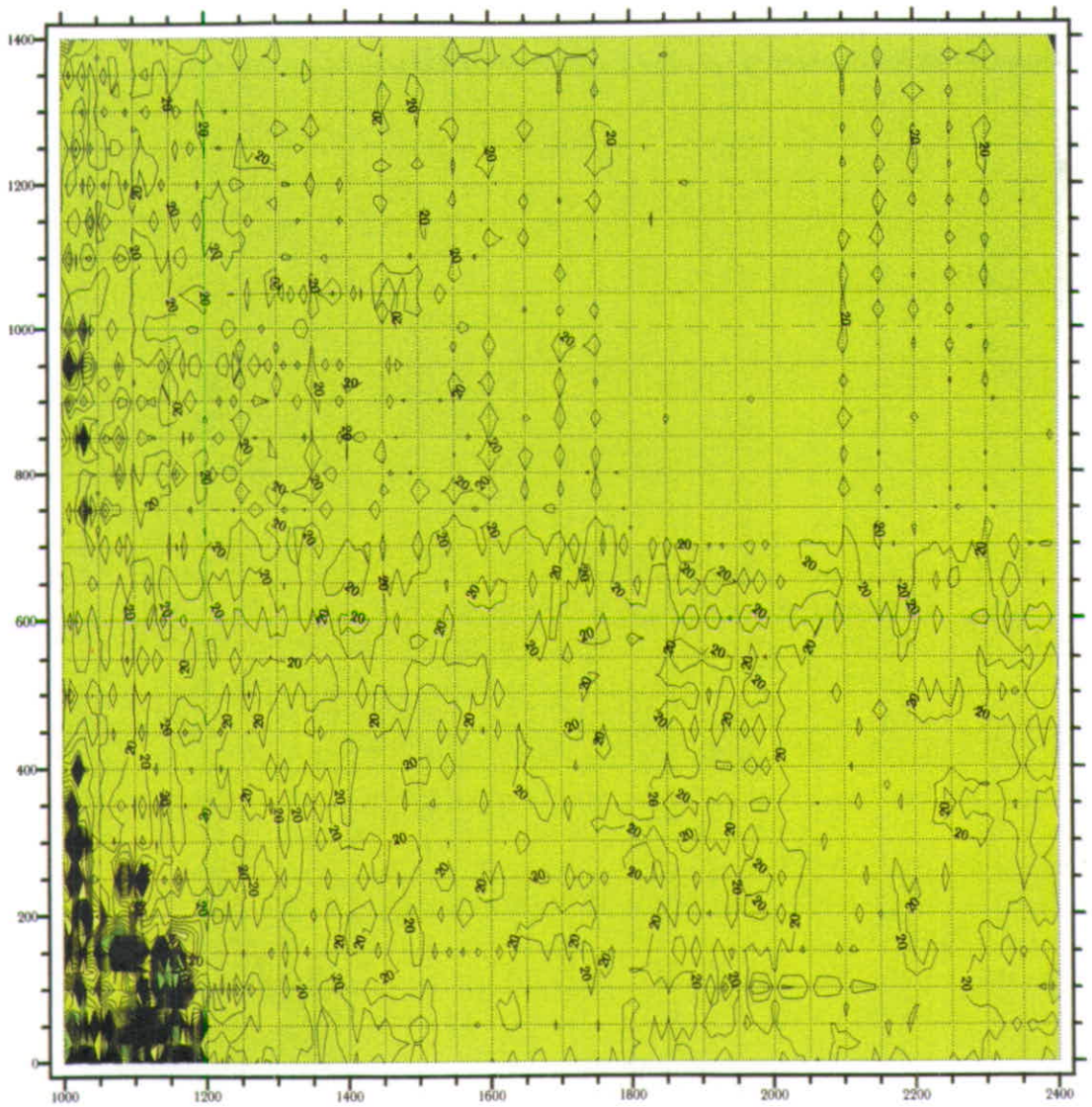
CWM SI Report Addendum 2

Site 437
Site Map and Geophysical Survey Area

Date 1-02	Base Wide Edwards AFB	Figure 3-4
Project No. 35052		

EDWARDS\35052\B0310FGA.A02

1041 24



Scale in feet
Contour interval 5 millivolts

Explanation

Data points

200 / 1200 — Distance (feet) "north" and Distance (feet) "east" of local site-grid origin at 0, 1000

Results

No anomalies interpreted as burials of metallic debris.

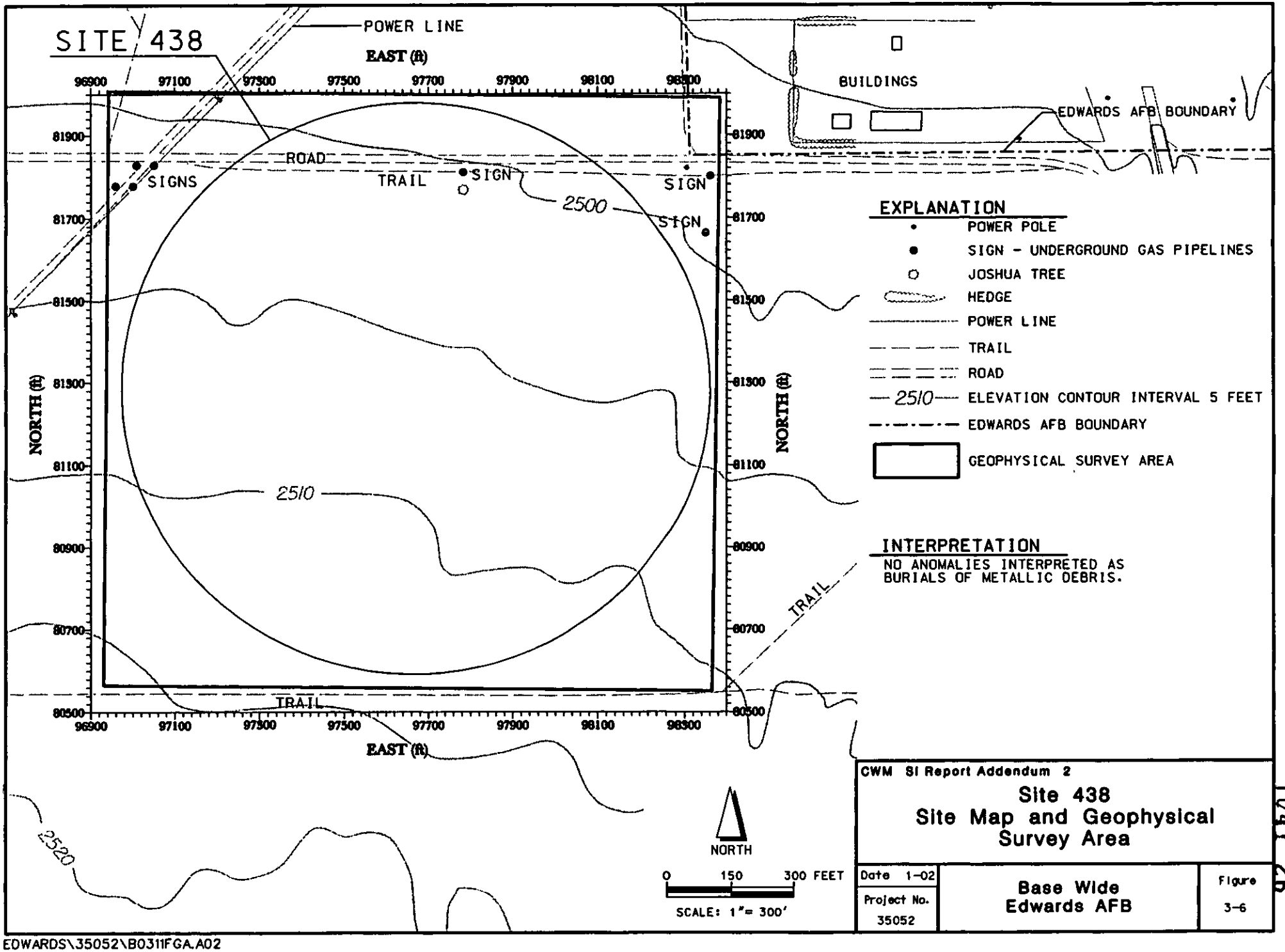
North

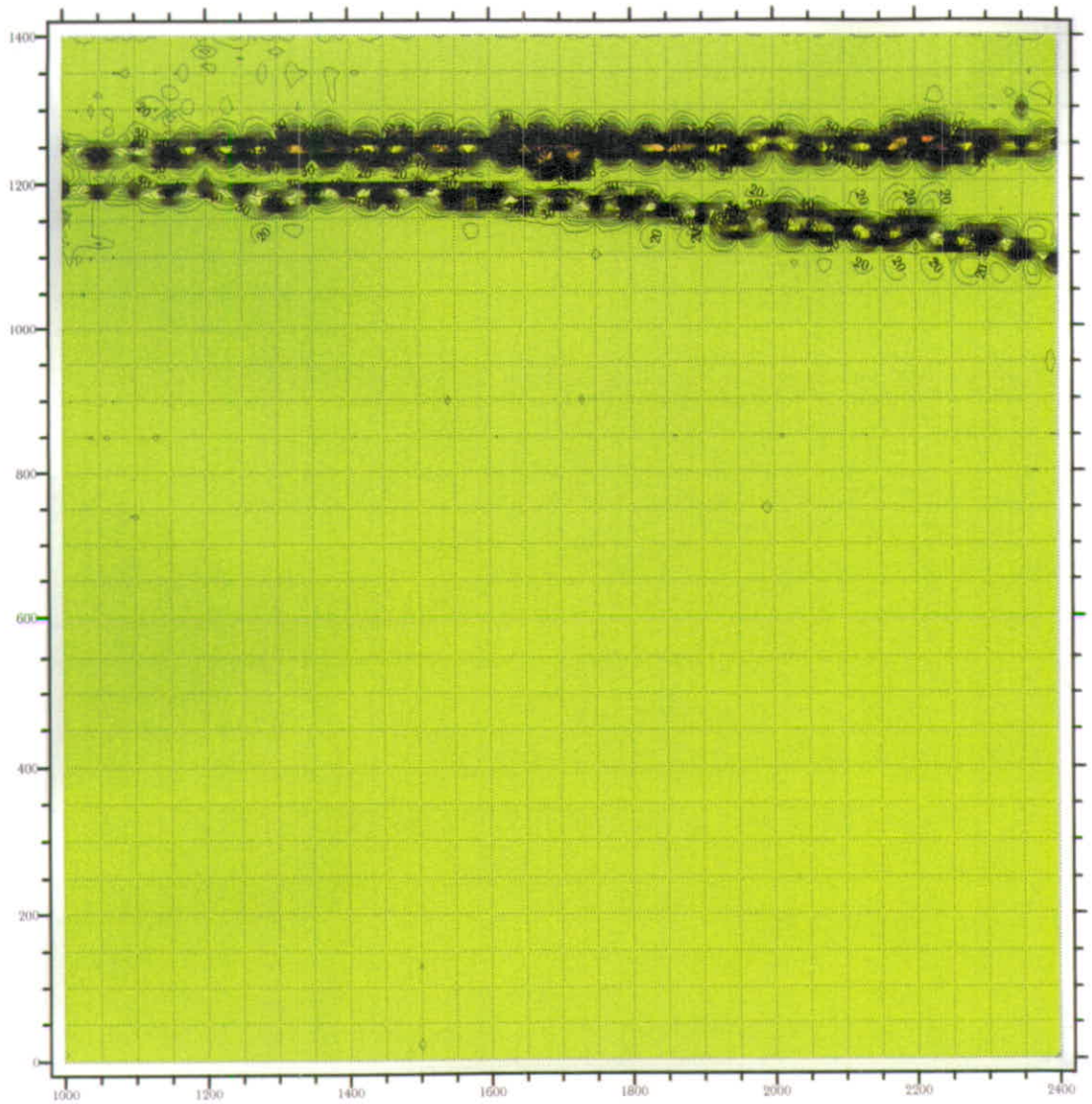
CWM NFI Report Addendum 2

Site 437
EM Contour Map

Date 01-02	Edwards AFB	Figure 3-5
Project No. 35052		

CADD/Edwards/35052/Rogers/NEW/Figure 3-5


SITE 438
POWER LINE
EAST (ft)
96900
97100
97300
97500
97700
97900
98100
98300
BUILDINGS
EDWARDS AFB BOUNDARY
81900
81700
81500
81300
81100
80900
80700
80500
NORTH (ft)
ROAD
TRAIL
SIGN
SIGNS
2500
2510
2520
EXPLANATION
POWER POLE
SIGN - UNDERGROUND GAS PIPELINES
JOSHUA TREE
HEDGE
POWER LINE
TRAIL
ROAD
2510 ELEVATION CONTOUR INTERVAL 5 FEET
EDWARDS AFB BOUNDARY
GEOPHYSICAL SURVEY AREA
INTERPRETATION
NO ANOMALIES INTERPRETED AS BURIALS OF METALLIC DEBRIS.
NORTH
0 150 300 FEET
SCALE: 1"= 300'
CWM SI Report Addendum 2
Site 438
Site Map and Geophysical Survey Area
Date 1-02
Project No. 35052
Base Wide Edwards AFB
Figure 3-6



EM Response
in millivolts

480
440
400
360
320
280
240
200
160
120
80
40
0 Background
-40
-80
-120
-160
-200
-240
-280
-320
-360
-400
-440
-480

Scale in feet
Contour interval 5 millivolts

Explanation

Data points

200 Distance (feet) "north" and

1200 Distance (feet) "east" of local site-grid origin at 0, 1000

Results

No anomalies interpreted as burials of metallic debris-

North

CWM SI Report Addendum 2

Site 438
EM Contour Map

Date 01-02	Edwards AFB	Figure 3-7
Project No. 35052		

CADD/Edwards/35052/Rogers/NEW/Figure 3-7

4.0 CONCLUSIONS AND RECOMMENDATIONS

Review of the aerial photographic record since the first photographs were taken in 1945 found no evidence of disposal or burial activity at Sites 437 and 438. No evidence of disposal of mustard cans, picric acid, or fuzes was visible on the surface of the sites or surroundings. The EM geophysical surveys found no burials of metallic objects on the sites.

Based on aerial photographic review, field reconnaissance, and geophysical surveys, no further investigation (NFI) is recommended for Sites 437 and 438.

Environmental Management Library
Building 2650A
Edwards AFB, CA

5.0 REFERENCES

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APPENDIX A

NOTES FROM FIELD RECONNAISSANCE

SITE 436 - 438

9/30/99 Thur. clear 90°F expected. T. Guiang, G. Procter, R. Norris

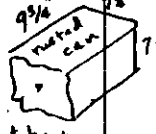
0720 Meet at Downfall PIRA.

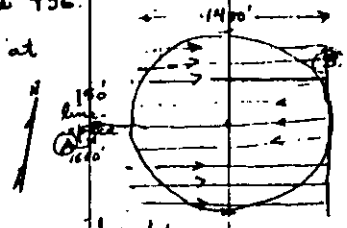
0748 Depart Downfall for A-2. Debbie Seelye guides us.

0870 Arrive at A-2, Site 436 area.

1048 We have walked/observed Site 436.

Observations: one can like we saw at the VORTAC site, but smaller (ed 10/1/99)





One checkerboard sign on ridge top.

(B) One 4-ft 3"x3" wood post.

Conclusions: one can does not a disposal site make! Can contents are unknown. Historical airphotos also showed nothing. Recommend no further action.

Next, sweep down the valley to circle road. One pass, 3 persons.

Observations: one "food can" 5"l x 3"dia. one wooden post weathered 4 ft tall 3"x3"; slightly downstream of mid-sweep point.

Conclusions unchanged.

MOVE TO OTHER SITE

1448 We have moved to Site 438 (SW of Kramer Jct.)

We walked/observed on north-south lines 150-ft spacing.

Observations: two 50-cal casings, numerous drink and food cans, one plastic body-board (surfing), one trash-burner can

Conclusions: No evidence of mustard can disposal - or other military disposal.

1515 Return radios to Downfall and sign out. Roger Norris

SITE 437

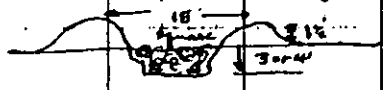
10/1/99 Fri. Clear, high 90's predicted. T. Guiang, R. Norris, G. Procter

0740 Meet at Kramer Junction. Plot out survey. Same survey pattern as on previous page.

0930 We have walked/observed Site 437.

Observations: Household trash under the lone Joshua tree - bedsprings, cartons, cans. Soda cans distributed along the wash where people drive. Soda cans & food cans scattered randomly in the remainder of the area. One shotgun shell casing.

Trash pit household junk, roofing, etc. at SW corner of "development" roads. (SSE of Site 437).



1100 We did reconnaissance driving around the site surroundings - "development" roads, power line roads, upstream and downstream in the central drainage wash. We saw piles of household trash, construction trash, junked automobile, auto parts, and other trash.

Conclusion: No evidence of mustard can burial.

All trash appears to be post "development" era.

Roger Norris

APPENDIX B

MAP REFERENCES

APPENDIX B

MAP REFERENCES

Defense Mapping Agency, 1990 (May 7). *Edwards AFB Test Range Instrumentation Map*, scale 1:62,500. DMA Aerospace Center, St. Louis Missouri.

G. Reynolds Watkins (GRW) Engineers, 1993 (January). *Geographic Information System, Base Mapping Supplement*, Edwards AFB, California, scale: 1"=200'

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FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

Appendix F. Wildlife Survey Technical Report

Wildlife Survey of a Proposed Transmission Line for the Aratina Solar Project, Kern County, California

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July 8, 2020

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EXECUTIVE SUMMARY

64NB 8ME LLC proposes to develop a photovoltaic energy facility (up to 600 MW-AC) identified as the Aratina Solar Farm that would be located on private lands and is addressed in separate reports. Power generated by Aratina could be delivered from the site via an up to a 230 kilovolt electrical transmission line (gen-tie line) originating from an on-site project substation and terminating at the Southern California Edison Kramer Substation.

The proposed 6.36 mile transmission line (Project) would be located entirely within an existing Edwards Air Force Base utility corridor (Corridor 5), and would utilize single- or double-circuit monopole and/or H-frame structures, typically spaced 500 to 700 feet apart. Corridor 5 is a 1,000 foot wide utility corridor that was one of several utility corridors addressed in a programmatic level Environmental Assessment by the U.S. Air Force. Transmission lines, such as the proposed project, were identified as one of the suitable utilities for Corridor 5.

Four transects were walked within the 100-foot wide Project corridor spaced at 10 meter intervals for a total of 25.4 transect miles. Surveys were conducted according to U.S. Fish and Wildlife Service desert tortoise survey protocols although all sensitive vertebrate species were included in the survey.

No desert tortoise or burrowing owl sign was detected. One inactive desert kit fox den was located along with three observations of common raven nests in existing transmission structures adjacent to the Project. Ravens are not a special status species but are granted protection like many bird species under the Migratory Bird Treaty Act of 1918. This protection is extended to their nests and eggs.

Detection of the California Threatened Mohave ground squirrel (MGS) requires trapping surveys during specific time periods. MGS trapping was outside the scope of the current survey and not conducted. However, Dr. Philip Leitner conducted a habitat assessment and concluded that the Project could support an MGS population.

No desert tortoise or burrowing owl sign was detected during the survey. Further, only one inactive desert kit fox den was detected. These data suggest that the Project is not occupied by these species. However, it must be acknowledged that the sample size of 25.4 miles of transects is relatively small and could result in failure to detect individuals that do not reside on the site but may walk onto the site and use it for forage. Additionally, 15 Joshua trees were recorded.

As a transmission line, only a small fraction of the area surveyed will have surface impacts. If necessary, small changes in engineering design will be completed in order to avoid sensitive species.

PROJECT DESCRIPTION

64NB 8ME LLC proposes to develop a photovoltaic energy facility (up to 600 MW-AC) identified as the Aratina Solar Farm that would be located on private lands and is addressed in separate reports. Power generated by Aratina could be delivered from the site via an up to a 230 kilovolt (kV) electrical transmission line (gen-tie line) originating from an on-site project substation and terminating at the Southern California Edison Kramer Substation.

The proposed 6.36 mile transmission line (Project) would be located entirely within an existing Edwards Air Force Base utility corridor (Corridor 5), and would utilize single- or double-circuit monopole and/or H-frame structures, typically spaced 500 to 700 feet apart. Corridor 5 is a 1,000 foot wide utility corridor that was one of several utility corridors addressed in a programmatic level Environmental Assessment (U.S. Air Force 2016). Transmission lines, such as the proposed project, were identified as one of the suitable utilities for Corridor 5.

EXISTING CONDITIONS

The Project lies within lands administered by Edwards Air Force Base (EAFB) within Kern and San Bernardino Counties generally to the south of and between Boron and Kramer Junction (Figure 1). The gen-tie is generally located within 300 feet of the northern boundary of EAFB except in the area of the Kramer Substation (Figure 2). The Project is located on the Lehman Ridge and Kramer Junction USGS 1:24000 quadrangles.

Cadastrally, the Project Area includes the following:

- Township 10N, Range 7W – portions of Sections 8, 9, 10, 11, and 12
- Township 10N, Range 6W – portions of Sections 6 and 7

A barbed wire fence along the northern boundary of EAFB lies within 300 feet north of the centerline of the western six miles of the proposed Project. At approximately six miles from its western terminus, the Project turns to the north and crosses the EAFB boundary fence but remains within EAFB lands (Figure 2). Land immediately to the north of the Project is undeveloped with the communities of Boron (population 2,253 in 2010 census; U.S. Census Bureau 2020) to west and Kramer Junction to the east. EAFB's Precision Impact Range Area (U.S. Air Force 2016) lies to the south of the Project. Similar undeveloped habitat lies to both the east and west of the Project. The eastern 5.4 miles of the Project lies at the northern boundary of the Fremont-Kramer ACEC which has been designated as desert tortoise critical habitat (Figure 2).

There is an existing "H" frame wooden pole transmission that lies within Corridor 5 immediately north of the Project. A dirt access road parallels the existing transmission line immediately to its north. This access road would provide access to the Project except for the western-most 3,340 feet and the eastern-most 4,340 feet where the Project deviates from the existing transmission line. In the eastern-most area, a dirt road parallel to the boundary fence would provide access to the point at which the transmission line turns to the north.

The Project is within the Antelope Valley which generally lies between the Tehachapi and San Gabriel Mountains. Elevations within the Project Area range from 2,493 near the eastern terminus at the Kramer Substation to 2,570 feet about two miles east of the western terminus. The area around the Project is relatively flat with some slight undulations. Drainage is generally to the north through several ephemeral washes.

With the Project's location on EAFB there is no human habitation on or near the Project. Constructed facilities near the Project include an Antelope Valley East Kern Water Agency building near the western terminus of the Project and near the eastern terminus, a California Department of Transportation yard adjacent to the Kramer Substation.

The dirt access road along the existing transmission line sees little use as evidenced by lack of vehicle tracks. There are a few intersecting dirt roads that generally traverse to the south that see even less use. By contrast, a dirt road just north of the EAFB boundary fence and off of Air Force property is used much more frequently.

An AT&T fiber optic line and attendant access road is located south of the Project at the south boundary of Corridor 5. As the proposed transmission line nears the Kramer Substation, it crosses a utility corridor containing the Mojave Gas Pipeline; a natural gas pipeline. The Project also crosses an indistinct and likely abandoned telephone line between the point at which the transmission line turns north towards the Kramer Substation and the point at which the existing transmission line crosses the EAFB boundary fence towards the Kramer Substation.

Two plant communities were dominant on the Project (Table 1, Figures 3a, 3b, and 3c). The majority of the Project lies within a *Larrea tridentata – Ambrosia dumosa* Shrubland Alliance (creosote bush – white bursage scrub; Sawyer et al, 2009; Photograph 1). The eastern portion of the Project and small, interspersed areas of the rest of the Project is dominated by *Atriplex spinifera* Shrubland Alliance (spinescale scrub; Photograph 2). Small portions of the project, in descending order of occurrence, were dominated by *Larrea tridentata* Shrubland Alliance (creosote bush scrub), *Ambrosia dumosa* Shrubland Alliance (white bursage scrub), and *Atriplex polycarpa* Shrubland Alliance (allscale scrub). Joshua trees are generally found throughout both plant communities but not at such a density to be considered Joshua tree woodland (> 1% cover), a sensitive natural community (Figure 4; CDFW 2018)

Table 1. Aratina Gen-tie Vegetation Communities

Vegetation Community[1]	Aratina gen-tie	
	Acres	Percent
Larrea tridentata - Ambrosia dumosa Shrubland Alliance (creosote bush - white bursage scrub)	41.58	54.2%
Atriplex spinifera Shrubland Alliance (spinescale scrub)	30.50	39.8%
Larrea tridentata Shrubland Alliance (creosote bush scrub)	3.18	4.1%
Ambrosia dumosa Shrubland Alliance (white bursage scrub)	0.73	1.0%
Atriplex polycarpa Shrubland Alliance (allscale scrub)	0.67	0.9%
TOTAL	**76.66**	**100.0%**

1. Vegetation communities per Sawyer et al. 2009

METHODS

Protocols

Desert Tortoise

Agassiz's desert tortoise (*Gopherus agassizii)* is a state and federally (USFWS 1990) listed Threatened species. It is the only *Gopherus* species that occurs in California, where it is the state reptile. In this report, the term "tortoise" or "desert tortoise" refers to Agassiz's desert tortoise.

USFWS protocols (USFWS 2019) define the "action area" of a project to include all areas to be affected directly or indirectly by a project action. For the Aratina gen-tie, the action area was defined as 50 feet on either side of the transmission line centerline and the existing parallel access road.

A 100% coverage survey as defined in the USFWS's protocol (USFWS 2019) was conducted for desert tortoise within the action area. In brief, these protocols specify the following:

- An option to conduct 100% coverage surveys or probabilistic sampling if the site is large enough. The threshold to allow probabilistic sampling for the Western Mojave Desert is 3,290 acres.
- Transects spaced at 10 meter intervals if 100% coverage surveys are utilized
- Surveys for large projects to be conducted during tortoise's active periods, April 1 to May 31 or September 1 to October 31 when the shaded air temperatures are below 35ºC (95ºF) at 5 cm (2 inches) above ground. An allocation for linear projects is made such that they can be conducted at any time of the year.
- Surveys to cover the "action area" which includes all areas to be affected directly or indirectly by a project action.

Burrowing Owl

Federally, western burrowing owls (*Athene cunicularia hypugaea*) are a Bird of Conservation Concern. On the state level they are a Species of Special Concern (Table 3). A survey for burrowing owl was conducted according to CDFW protocols (CDFG 2012). Prior to 2013 CDFW was known as the California Department of Fish and Game [CDFG]).

In brief, these protocols specify the following:

A total of four site surveys either within breeding season (1 February to 31 August) or outside of breeding season with breeding season surveys conducted at least 3 weeks apart between 15 April and 15 July with at least one visit after 15 June. This survey was a breeding season survey.

- Transects spaced at 7 to 20 meters apart and adjusted for vegetation height and density.
- Recording all potential burrows used by burrowing owls as determined by the presence of one or more burrowing owls, pellets, prey remains, whitewash, or decoration.
- Survey of a 150-meter wide buffer outside of the project perimeter.
- A provision by CDFW to propose alternate survey methods for large projects.

Mohave Ground Squirrel

Detection of the California Threatened Mohave ground squirrel (*Xerospermophilus mohavensis;* MGS) requires trapping surveys during specific time periods. MGS trapping was outside the scope of the current survey and not conducted. However, a habitat assessment was conducted for MGS by Dr. Philip Leitner between February 9 and 12, 2019 (Leitner 2019). This habitat assessment was completed to determine the potential for occurrence as well as impacts to this species from proposed project development. The habitat assessment also included a review of the CNDDB and maps for MGS occurrences within the project vicinity.

Western Joshua Tree

The locations of all Joshua trees, regardless of size, were recorded. The western Joshua tree (*Yucca brevifolia* var. *brevifolia*) is currently protected under the California Desert Native Plants Act (CDNPA; CDFW 2020a). Implementation of the CDNPA is the responsibility of the individual Counties where the species occur. Both Kern and San Bernardino Counties have permitting procedures in place for the species. In response to a petition to list the western Joshua tree as a threatened species under the California Endangered Species Act (CESA), CDFW staff has recommended that the California Game and Fish Commission (Commission) accept the petition for further consideration (CDFW 2020b). It is expected that the Commission will address the topic in their August, 2020 meeting. If the Commission accepts CDFW's recommendation to accept the petition, the species becomes a candidate species. As a candidate for listing, the species is temporarily afforded the same protections as a state-listed threatened species. CDFW will prepare a peer-reviewed status report on the species and the Commission will decide at a public meeting whether the petitioned action is warranted. If the Commission finds that the petitioned action is not warranted, the process will end, and the species will be removed from the list of candidate species. If the Commission finds that the petitioned action is warranted, the species will be added to the list of threatened species (CDFW 2020c).

Other Species

In addition to protocol surveys for desert tortoise and burrowing owls, the entire Project Area was surveyed for other wildlife species. All other special status species and their sign were noted if observed. This included, but was not limited to, desert kit fox (*Vulpes macrotis arsipus*), American badger (*Taxidea taxus*), sensitive bird species, and bird nests. The desert kit fox currently does not have federal or California special status, but it is protected from hunting as a fur-bearing mammal under Title 14 of the California Code of Regulations, Section 460.

Field Methods

Four transects spaced at ten meter intervals, with two on either side of the Project centerline, were walked for a total of 25.4 transect miles. Burrowing owl buffers were not walked adjacent to the gen-tie because most of the potential surface impacts are associated with relatively small tower structures. All transects were walked parallel to the Project so most transects were generally east-west except for the north-south transects near the Kramer Substation.

Surveys were conducted between June 2 and 5, 2020. All surveys were conducted by Gilbert Goodlett who walked approximately eight transect miles per day. All transects and the boundaries of the survey area were downloaded to handheld GPS and the GPS was used to navigate the transects.

The biologist focused his search within an approximate 180º arc and 5 meter radius centered in front of him. He remained on his transect centerline except to investigate shrubs, trees, and other landscape features which prevented the biologist from seeing an item of interest.

After investigation of a feature, the biologist returned to the transect centerline. This ensured accurate coverage of the survey area. The biologist avoided staring at the GPS units to maintain his track. Instead he selected an object on the horizon to use as a target and occasionally checked the GPS for their position with respect to the intended transect. Less than 10% of the biologist's time was spent looking at the GPS.

Desert tortoise related data collected included the following:

- Observer name
- Date
- Location of observation (UTM, WGS84)
- Burrows and coversites
    - Burrow class
        - Class 1 - Currently active, with tortoise or recent tortoise sign
        - Class 2 - Good condition, definitely tortoise, no evidence of recent use
        - Class 3 - Deteriorated condition; definitely tortoise
        - Class 4 - Deteriorated condition; possibly tortoise
        - Class 5 – Good condition; possibly tortoise
    - Burrow dimensions (length, width, height, soil cover [mm])
    - Burrow aspect – direction mouth of burrow is facing
- Scat
    - Class (this year [TY] or not this year [NTY])
    - Number of individual items of scat
- Live tortoise
    - Maximum carapace length (MCL, mm)
    - Sex – male, female, or unknown. Sex cannot be reliably determined for animals under 180 mm MCL
    - Location – in burrow, under shrub, in open, etc.
    - Activity - resting, basking, walking, feeding, interacting, other
    - Health notes - signs of upper respiratory tract disease, cutaneous dyskerotosis, etc.

- Carcasses
    - MCL (mm)
    - Sex – male, female, or unknown. Sex cannot be reliably determined for animals under 180 mm MCL
    - Position - upright, inverted, disarticulated
    - Cause of death – often unknown; detectable indications of cause of death could include predator chew marks, predator scat nearby, or gunshot wounds
    - Time-since-death in standard categories (Berry and Woodman, 1984)
        - < 1 year
        - 1 to 2 years
        - 2 to 4 years
        - > 4 years
- Other sign such as tracks, drinking depressions (tortoise created water catchments), courtship rings (circular disturbed areas in the soil created by tortoise courtship activities), etc.
- Additional notes

Data collected for desert kit fox included:

- Observer name
- Date
- Location of observation (UTM, WGS84)
- Status of den
    - Inactive
    - Active
    - Pupping
- Number of entrances to den
- Detailed observational notes

Data collected for burrowing owl included:

- Observer name
- Date
- Location of observation (UTM, WGS84)
- Status of burrow
    - Inactive
    - Active
- Burrowing owl sign observed at burrow
    - Feathers
    - Pellets
    - Prey items

  - Whitewash
- Observation of a live burrowing owl
  - At a burrow
  - Not associated with a burrow
- Detailed notes on observation

Data collected for other species observations included:

- Observer name
- Date
- Location of observation (UTM, WGS84)
- Species
- Detailed notes on observation

In the field, all data were collected using an Apple iPhone® and the application Avenza Maps for which a custom data collection schema was developed. The cumulative data were uploaded daily to a cloud storage site (Dropbox.com). Photographs were taken of every item of sign trackable to a unique sequential sign identification number assigned in Avenza Maps. Photographs were also taken of typical habitat features. The application Theodolite was used to take all photographs. Theodolite imprints data to a digital photograph. These data include the date and time, location in Universal Transverse Mercator (UTM) coordinates, altitude, datum, direction the camera is pointed, elevation and horizon angles, zoom level, and custom notes.

No desert tortoises were handled during the survey. All burrows and potential coversites were investigated by using a mirror to reflect sunlight into the burrow. Neither probes nor downhole cameras were utilized to investigate burrows to prevent potentially harassing tortoises.

At 0800 and 1200, weather conditions were recorded. Weather conditions included the shaded air temperature at 1.5 meters measured with a 0.1 ℃ precision thermister, the ocularly estimated percentage of cloud cover and type of clouds, and wind speeds and direction. Winds speeds were measured with a Kestrel® brand electronic wind meter. Measurements were taken until average wind speeds stabilized. The average and maximum wind speeds were recorded. Wind direction was estimated by observing the drift direction of a handful of fine soil that was dropped. These data are listed in Appendix 2.

In addition to recorded temperature data, 5 cm shaded air temperatures were routinely taken on warm days during the active survey time period to ensure that the peak desert tortoise survey temperature of 35 ºC at 5 cm was not exceeded. Cooler temperatures prevailed during the survey and the 5 cm temperature never approached the maximum.

Incidental observations were recorded of all vertebrate species observed to develop a comprehensive species list. Additionally, detailed notes and locations were recorded if sign of any special status species were noted. Focus species included desert kit fox, American badger, Mohave ground squirrel, burrowing owl, and a variety of other special status bird species.

Specific to burrowing owls, sign observations were placed in the following categories – live burrowing owls that did not appear to be associated with a burrow, live burrowing owls at or otherwise associated with a burrow or burrows, active burrowing owl burrows, and inactive burrowing owl burrows. Active burrowing owl burrows were of an appropriate size for use by a burrowing owl and one or more of the following recent items of sign were present – whitewash (uric acid excretions which are the equivalent of urine in mammals), owl feathers, pellets (undigested parts of owl's food that are regurgitated), remains of prey items, and disturbed area in the mouth of a burrow consistent with owls. Inactive burrows were similar to active burrowing owl burrows except that the sign was not recent. Inactive burrows are often difficult to determine because the sign persists for a limited time after a burrow becomes inactive.

Specific to desert kit fox, sign observations included pupping, active, and inactive kit fox dens. Pupping or natal dens were identified by observation of pups, hearing pups in the den, or den characteristics. Pupping den characteristics include multiple entrances to a den that show evidence of heavy use. The presence of prey items and scat tended to confirm a den's designation as a pupping den.

An active kit fox den was identified as an appropriately sized den with a typically narrow entrance, often with multiple access points, with one of more of the following recent items of sign were present – disturbance in one or more entrances showing recent use, fox tracks in the vicinity, remains of prey items nearby, live foxes heard or seen in den, or flies in the burrow indicating a likely prey item inside. Inactive kit fox dens possess the same general characteristics less the recent sign and are more difficult to identify than active kit fox dens.

Identification Resources

Identification of plants followed The Jepson Manual: Vascular Plants of California (Baldwin 2012) and plant communities followed A Manual of California Vegetation: Second Edition (Sawyer, et al. 2009).

Bird identification resources included A Field Guide to Western Birds (Peterson 1993), Field Guide to the Birds of North America (National Geographic Society 1987), and Stokes Field Guide to Birds: Western Region (Stokes 1996). Mammal identification resources included California Mammals (Jameson 1988) and A Field Guide to the Mammals of North America North of Mexico (Burt and Grossenheider 1980). Reptile identification resources included A Field Guide to Western Reptiles and Amphibians (Stebbins 1985).

RESULTS

Desert Tortoise and Burrowing Owl

No desert tortoise or burrowing owl sign was detected in 25.4 miles of transects walked within the action area of the Project.

Mohave Ground Squirrel

The Project is within the geographic range of MGS and there are multiple records of this species being trapped and identified during surveys within the Project. The current CNDDB contains multiple records of MGS in the general vicinity of the Project.

Given the intact nature of the vegetation communities, limited human disturbances, the appropriate soil types for burrow construction, and the availability of forage and cover from predators and weather events, Dr. Philip Leitner concluded that the proposed Project could support an MGS population (Leitner 2019).

Desert Kit Fox

One inactive desert kit fox den was located during the survey (Figure 4, Photograph 3). There was no evidence of recent use of any of the four entrances.

Western Joshua Tree

A total of 15 Joshua trees were found within the Project. The area surveyed for the Project was a 100-foot wide corridor for a transmission line. Surface impacts from a transmission line are generally limited to a small fraction of the total corridor and includes tower sites, access roads, tensioning and pull sites, and staging areas. At this point only the preliminary planned locations for the tower sites is known. The location of Joshua trees was cross-referenced with these tower site locations and no overlap was noted. In general, there is enough flexibility in the engineering of a transmission line such that avoidance of all Joshua trees can be accomplished.

Other Special Status Species

There were three observations of common raven (*Corvus corax*) nests on the cross beams of three of structures of the existing transmission line (Figure 4, Photograph 4). Ravens are not a special status species but are granted protection, like many bird species, under the Migratory Bird Treaty Act of 1918 (USFWS 2020). This protection is extended to their nests and eggs.

Common ravens are also a well-known predator of juvenile tortoises. It takes several years for the bones underlying the scutes on a juvenile desert tortoise to ossify. During this time, they are vulnerable to predation by several species, including common ravens. Ravens can peck a hole in the shell and remove and consume the juvenile tortoise leaving only the shell remains. The resulting hole in the carcass is a distinctive indicator of raven predation. Ravens will sometimes consume juvenile tortoises where they are found. Other times, ravens will carry the juvenile tortoise to their nest, consume the animal, and discard the carcass from the nest. This results in juvenile tortoise carcasses sometimes being found below raven nests. No juvenile carcasses were found below the three raven nests found on the Project.

General Species Observations

A total of 13 vertebrate species were detected within the Project (Appendix 1). These included seven bird species, two mammal species, and four reptile species.

Survey Weather Conditions

Surveys were conducted when weather conditions were conducive to the observation of active desert tortoises. In cooler temperatures, surveys could be conducted during the mid-day while in warmer conditions bimodal surveys in the early morning and late afternoon were utilized. In general, the survey effort was skewed towards the morning, hence the collection of weather data at 0800 and 1200 (Appendix 2, Figure 5).

The average 0800 temperature was 76.1 °F and the average 1200 temperature was 90.4 °F. The minimum 0800 temperature encountered was 71.2 °F and the maximum 1200 temperature was 96.1 °F.

Temperatures throughout the survey period in the morning were relatively cool and below the protocol maximum of 35 °C (95 °F) shaded air temperature at 5 cm on all survey days.

Winds were generally from the west. The average wind speed for the 0800 to 1200 time frame was 2.3 mph, with an average survey 0800 wind speed of 2.1 mph and average 1200 wind speed of 2.6 mph. The average maximum wind speed encountered at 0800 was 4.0 mph, while the average maximum wind speed encountered at 1200 was 4.7 mph. Maximum wind speed encountered was 7.4 mph on June 5, 2020.

DISCUSSION

No desert tortoise or burrowing owl sign was detected during the survey. Further, only one inactive desert kit fox den was detected. These data suggest that the Project is not occupied by these species. However, it must be acknowledged that the sample size of 25.4 miles of transects is relatively small and could result in failure to detect individuals that do not reside on the site but may walk onto the site and use it for forage. Additionally, 15 Joshua trees were recorded.

As a transmission line, only a small fraction of the area surveyed will have surface impacts. If necessary, small changes in engineering design will be completed in order to avoid sensitive species.

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FIGURES

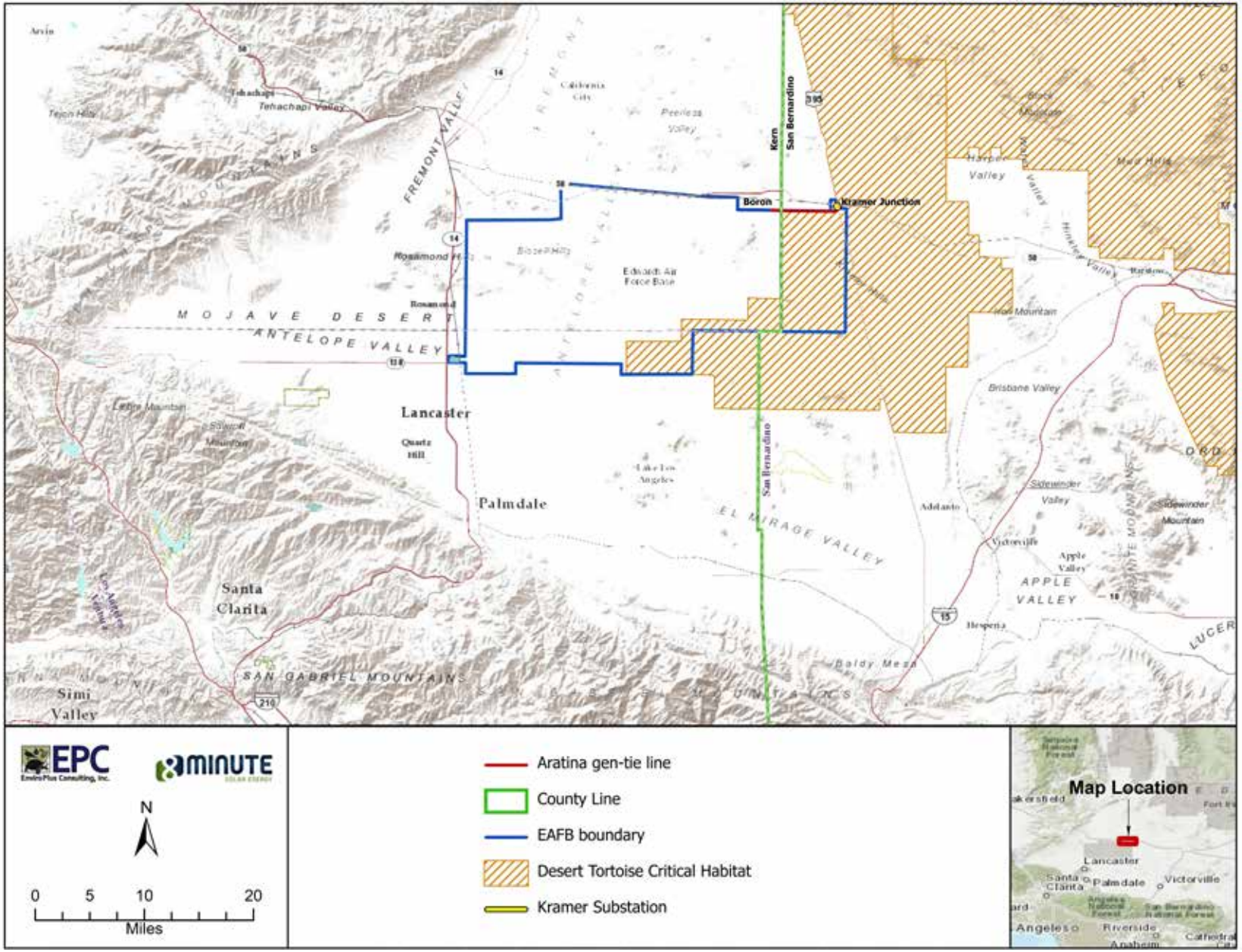


Figure 1. Aratina gen-tie project vicinity

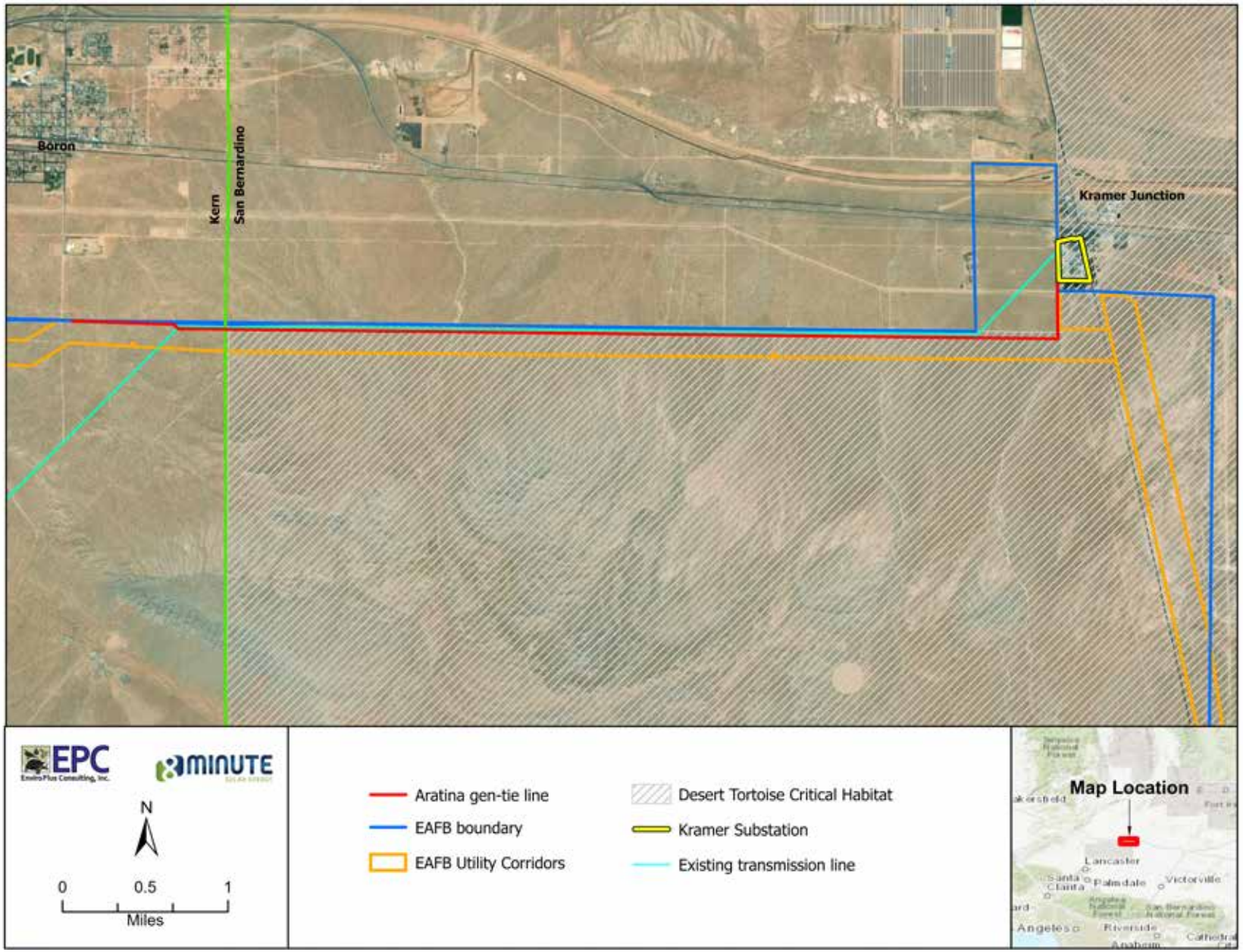


Figure 2. Aratina gen-tie project site

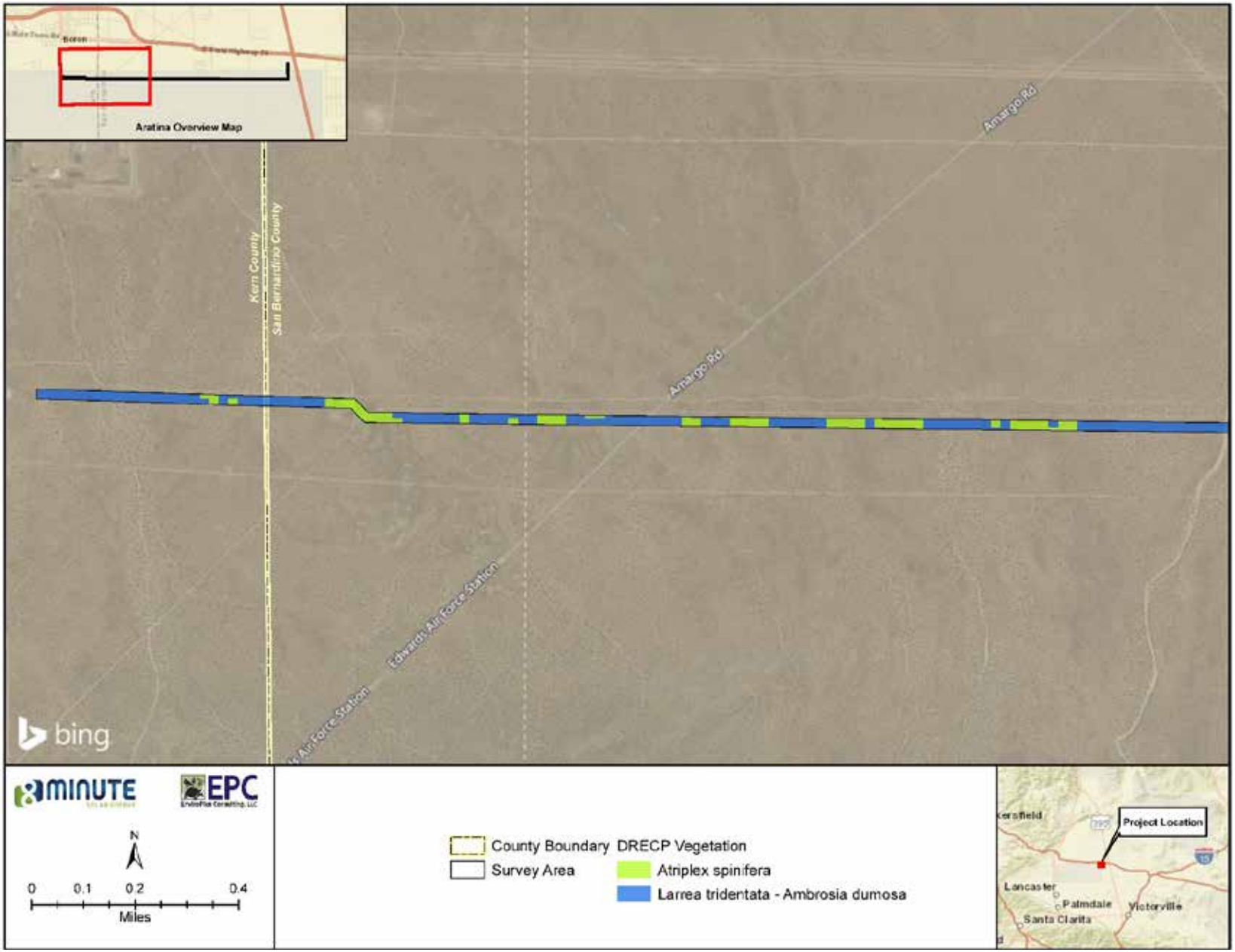


Figure 3a. Aratina gen-tie project vegetation types – western portion

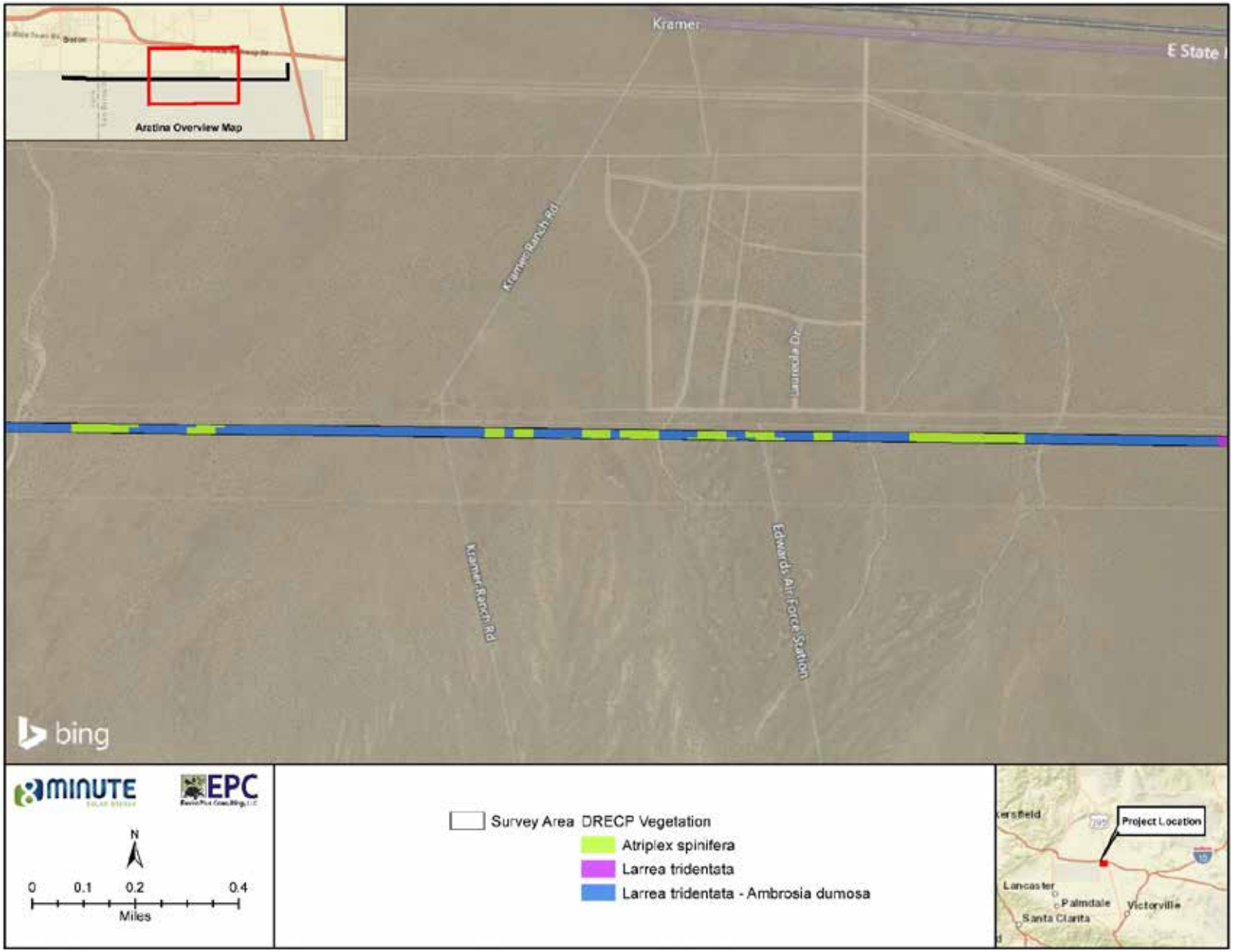


Figure 3b. Aratina gen-tie project vegetation types – central portion

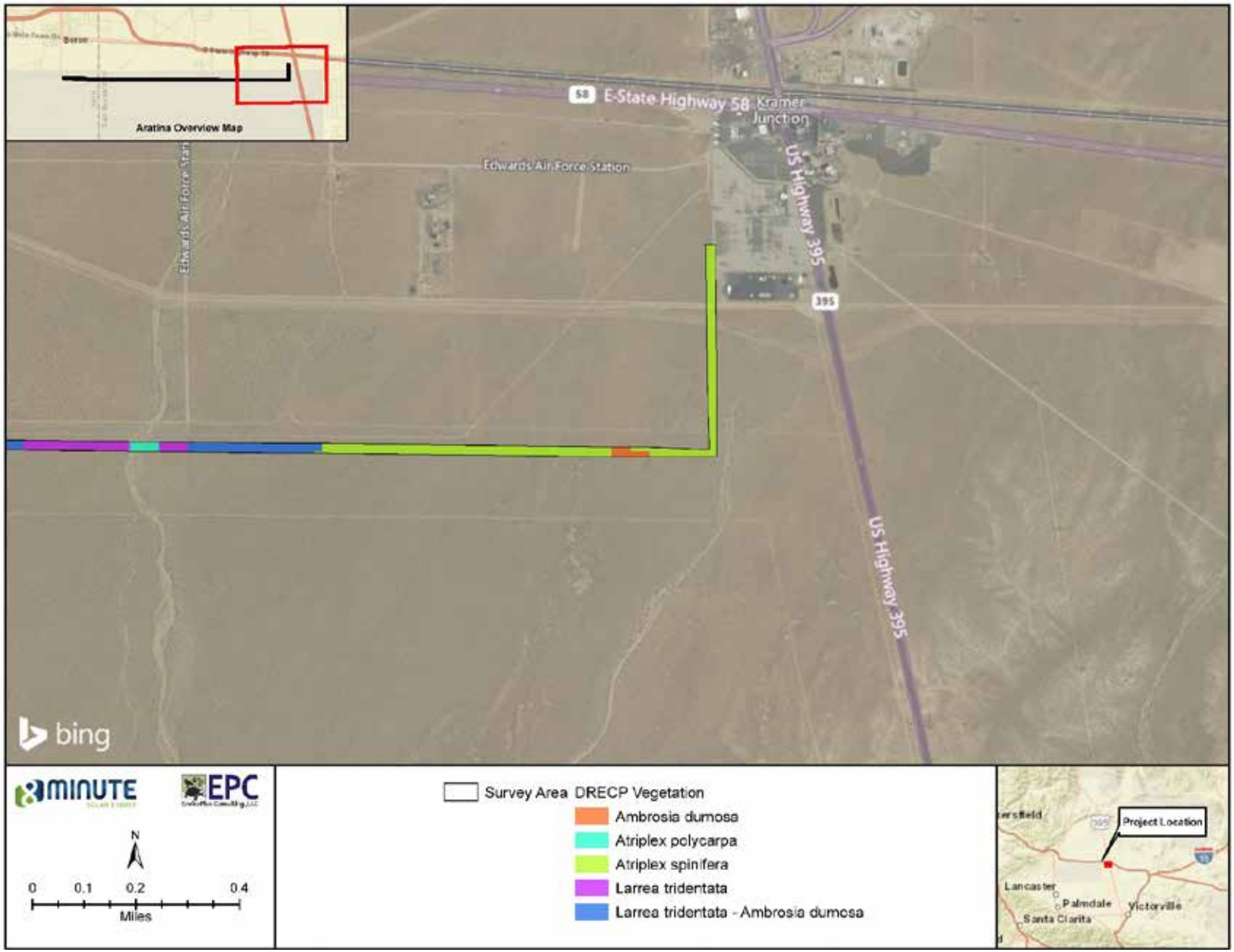


Figure 3c. Aratina gen-tie project vegetation types – eastern portion

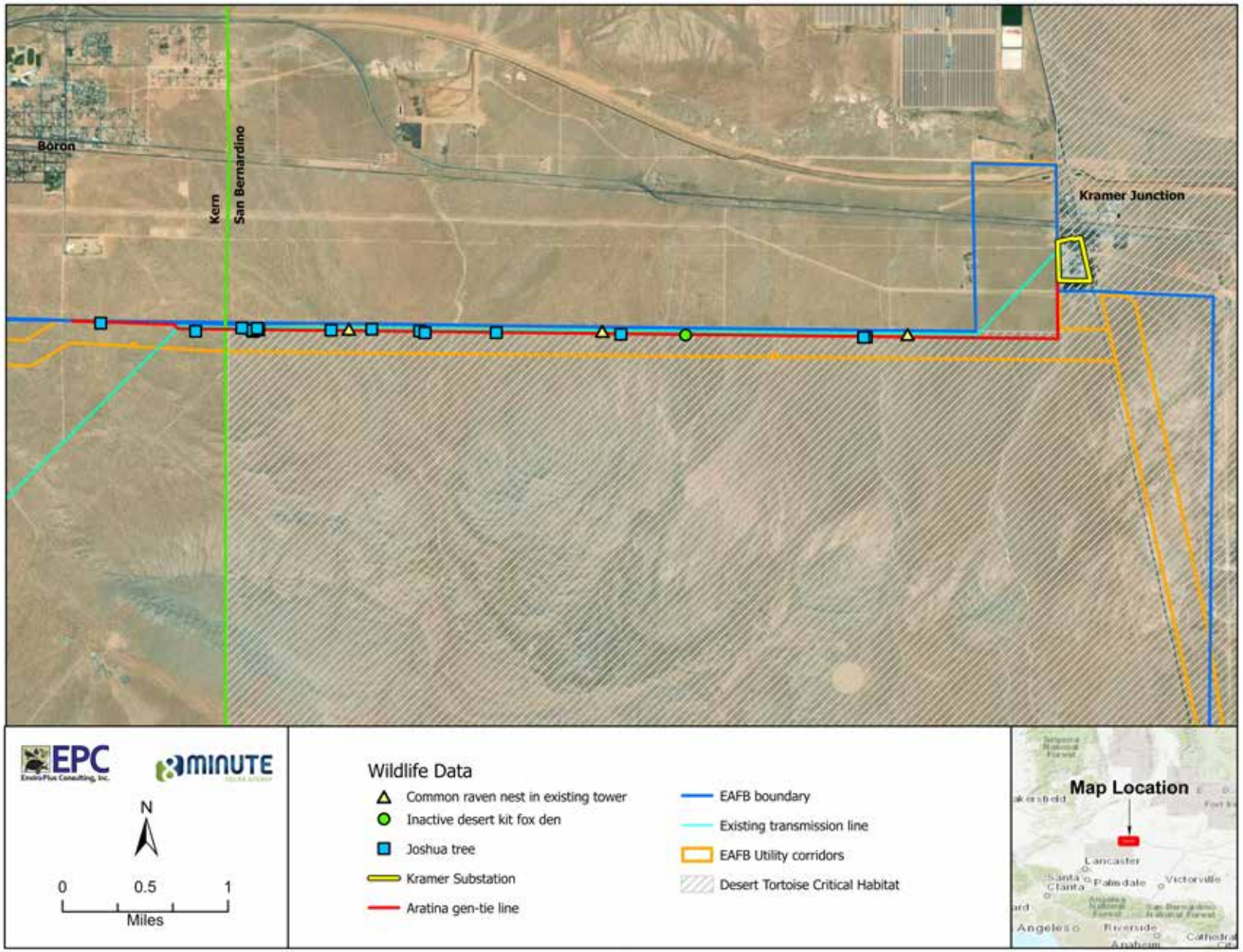
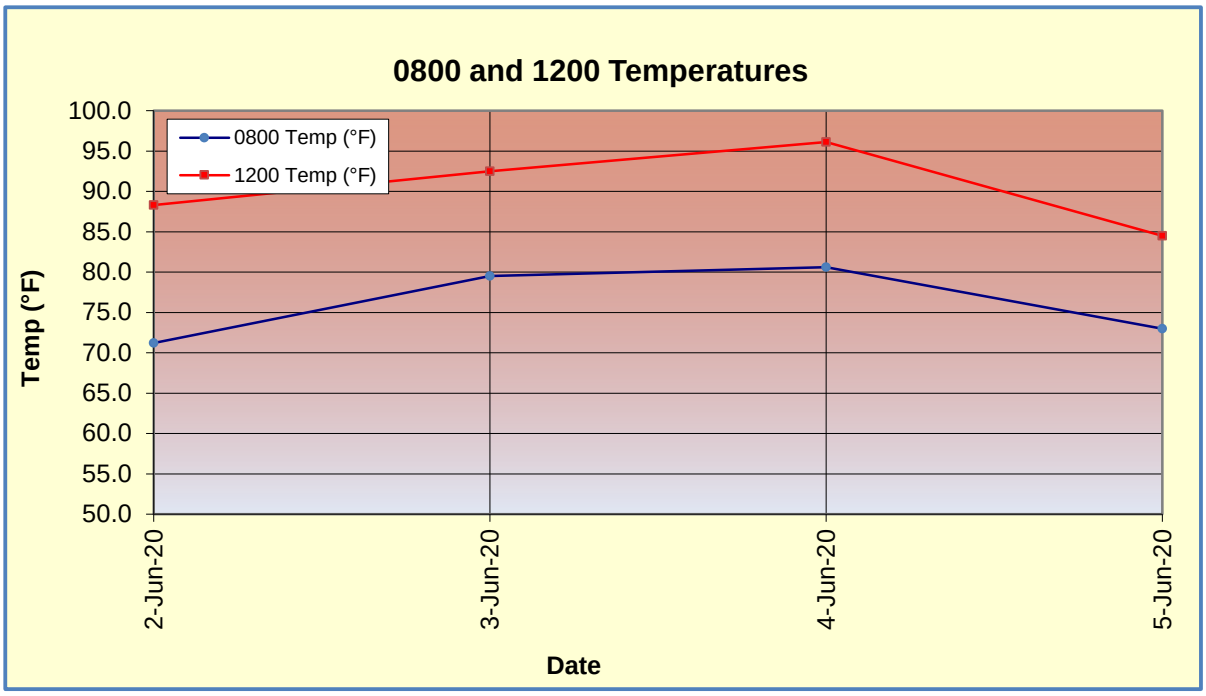


Figure 4. Aratina project site wildlife and Joshua tree locations



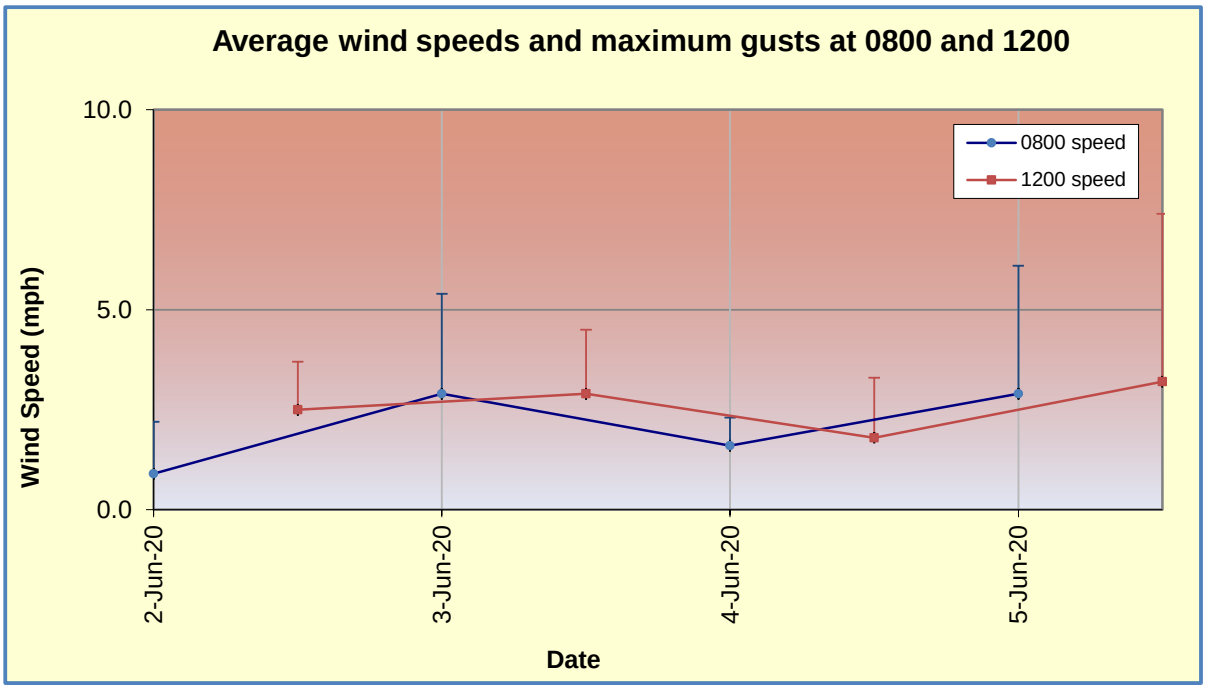


Figure 5. Shaded air temperatures and wind conditions at 0800 and 1200 for Aratina gen-tie biological survey

PHOTOGRAPHS

Photograph 1. Typical habitat along Aratina gen-tie - *Larrea tridentata – Ambrosia dumosa* Shrubland Alliance

Photograph 2. Typical habitat along Aratina gen-tie - *Atriplex spinifera* Shrubland Alliance

Photograph 3. Inactive desert kit fox den along Aratina gen-tie

Photograph 4. Raven nest on cross member in existing structure near Aratina gen-tie

Appendices

Appendix 1. List of Birds, Mammals, and Reptiles Detected During Aratina Survey

Scientific Name	Common Name
BIRDS	
ORDER: COLUMBIFORMES	**DOVES AND PIGEONS**
Columbidae	**Pigeons and Doves**
Zenaida macroura	Mourning Dove
ORDER: PASSERIIFORMES	**PASSERINES AND PERCHING BIRDS**
Tyrannidae	**Flycatchers**
Sayornis saya	Say's Phoebe
Tyrannus verticalis	Western Kingbird
Laniidae	**Shrikes**
Lanius ludovicianus	Loggerhead Shrike
Corvidae	**Jays, Magpies, and Crows**
Corvus corax	Common Raven
Troglotytidae	**Wrens**
Campylorhynchus brunneicapillus	Cactus Wren
Emberizidae	**Emberizids**
Artemisiospiza belli	Bell's Sparrow
MAMMALS	
ORDER: RODENTIA	**GNAWING MAMMALS**
Sciuridae	**Squirrels**
Ammosphermophilus leucurus	Whitetail Antelope Squirrel
ORDER: LAGOMORPHA	**PIKAS, HARES, AND RABBITS**
Leporidae	**Hares and Rabbits**
Lepus californicus	Black-tailed Jackrabbit
REPTILES	
ORDER:SQUAMATA	**LIZARDS AND SNAKES**
Phrynosomitidae	**Phrynomsomitids**
Phrynosoma platyrhinos	Desert Horned Lizard
Crotaphytidae	**Collared and Leopard Lizards**
Gambelia wislizenii	Long-nosed leopard lizard
Teiidae	**Whiptails**
Aspidoscelis tigris	Western Whiptail
Colubridae	**Colubrids**
Chionactis occipitalis	Western Shovel-nosed Snake

Appendix 2. Aratina Gen-tie Survey Weather Data

Date	0800 Temp. (°F)	0800 Cloud Cover (%)	0800 Average Wind Speed (mph)	0800 Maximum Wind Speed (mph)	0800 Wind Direction	1200 Temp. (°F)	1200 Cloud Cover (%)	1200 Average Wind Speed (mph)	1200 Maximum Wind Speed (mph)	1200 Wind Direction
6/2/2020	71.2	75%	0.9	2.2	W	88.3	80%	2.5	3.7	E
6/3/2020	79.5	20%	2.9	5.4	N	92.5	15%	2.9	4.5	W
6/4/2020	80.6	0%	1.6	2.3	N	96.1	0%	1.8	3.3	W
6/5/2020	73.0	80%	2.9	6.1	W	84.5	80%	3.2	7.4	W

EnviroPlus Consulting, Inc.
1660 West Franklin Avenue
Ridgecrest, CA 93555
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Technical Memo

To: Alexander Sundquist, 64NB 8me LLC

From: Gilbert Goodlett

Date: April 4, 2021

Re: Summary of a Joshua tree census of a proposed transmission line on Edwards Air Force Base

---

64NB 8me LLC proposes to develop a photovoltaic energy facility (up to 530 MW-AC with 600 MW AC energy storage) identified as the Aratina Solar Farm that would be located on private lands. Power generated by Aratina would be delivered from the site via an up to a 230 kilovolt electrical transmission line originating from an on-site project substation and terminating at the Southern California Edison Kramer Substation.

The proposed 6.36 mile transmission line (Project) would be located entirely within an existing Edwards Air Force Base utility corridor (Corridor 5), and would utilize single- or double-circuit monopole and/or H-frame structures, typically spaced 500 to 700 feet apart. Corridor 5 is a 1,000 foot wide utility corridor that was one of several utility corridors addressed in a programmatic Environmental Assessment (EA) by the U.S. Air Force. Transmission lines, such as the proposed project, were identified as one of the suitable utilities for Corridor 5. Most of the proposed Project lies just inside designated desert tortoise critical habitat.

On September 22, 2020, the California Fish and Game Commission (CFGC) accepted for consideration a petition to list the western Joshua tree (*Yucca brevifolia*; WJT) as threatened or endangered under the California Endangered Species Act and made the WJT a candidate species. Subsequently, CFGC adopted a regulation authorizing incidental take of WJT during the candidacy period pursuant to Section 2084 of the Fish and Game Code for certain energy projects in Kern and San Bernardino Counties listed in the regulation (the "2084 Rule"). Aratina Solar Farm is one of the projects listed in the 2084 Rule.

A WJT census was conducted within the 100-foot wide Project corridor in accordance with 2084 Rule by California Department of Fish and Wildlife approved biologist Youssef Attalah on February 25 and 26, 2021. The location of each tree was recorded to 1-meter accuracy and the height of each tree was measured. A total of 27 WJT were recorded. Six were less than 1 meter in height, 12 were 1 meter to less than 5 meters in height and nine were greater than 5 meters in height.

Appendix G. Agency Consultations

Section 106 Tribal Consultation Notification Letters

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

22 November 2021

Rhena (Lynn) Shreve
Cultural Resource Manager
412 CEG/CEVA
120 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

Kaitlin Songrara
Director, Cultural Center
Chemehuevi Indian Tribe
P.O. Box 1976
Havasu Lake, CA 92363

Re: Section 106 Consultation for the Aratina Solar Project and Generation – Tie Line (8 Minute Energy), Kern and San Bernardino, California

Dear Ms. Songrara,

The United States (U.S.) Air Force is initiating consultation with the Chemehuevi Indian Tribe regarding the development of a solar energy-generating project (Aritina Solar Project) and the associated Generation Tie-line, located partially within Edwards Air Force Base (AFB), Kern and San Bernardino Counties, California. This consultation is in accordance with 36 CFR Part 800 (amended August 5, 2004), regulations implementing Section 106 of the National Historic Preservation Act, for this undertaking. The purpose of this consultation is:

1. Notifacation of the Area of Potential Effect per 36 CFR Part 800.4(a);
2. Eligibility determination for the 75 cultural resources within the Aratina Solar Project and the Gen-Tie line corridor;
3. Notifacation of the Determination of Effect for the Generation Tie-line (Gen-Tie); and
4. Notifacation of the the Determination of Effect for the Aratina Solar Project (Aratina).

Although the Aratina solar generating facility is located entirely within private property, the chosen Gen-Tie line crosses land managed by the Department of the Air Force, Edwards Air Force Base (Edwards AFB). As such, based on a previous opinion by the Advisory Council on Historic Properties (ACHP) on the "Interconnection of Power Generation Facilities to the Bonneville Power Administration Grid Transmission Grid," dated February 27, 2020, Aratina is considered a Connected Action and subject to Section 106 of the NHPA review. The Kern

County Planning and Natural Resources Department is the lead agency under the California Environmental Quality Act and Edwards AFB is the federal lead agency for the Aratina project and the Gen-Tie line.

Project Overview

Aratina is a photovoltaic solar facility and associated infrastructure necessary to generate up to 530 megawatts (MW) of renewable energy proposed on approximately 2,317 acres on privately owned land consisting of five sites (Site 1 – 5) on 22 parcels. The proposed project site is located in unincorporated Kern County, straddling State Route 58 between Gephart Road on the west and the San Bernardino County line on the east. The proposed project site is near the unincorporated communities of Boron and Desert Lake and north of the Edwards Air Force Base boundary. The existing U.S. Borax open pit mine and refinery are located approximately two miles north of the project site. The site is located within Sections 5 and 6, Township l0 N, Range 7 W; Sections 1 and 2, Township I0 N, 8 W; and Sections 33 and 35, Township 11 N, Range 8 W, San Bernardino Base Meridian, County of Kern State of California. The project's permanent facilities would include, but are not limited to, service roads, a power collection system, inverter stations, transformer systems, transmission lines, electrical switchyards, project substations, energy (battery) storage system, and operations and maintenance facilities (Attachment 1).

The Gen-Tie line corridor for the Aratina Solar Farm is a 230 kV line originating from on-site substation in Kern County and terminating at Southern California Edison (SCE) Kramer substation in San Bernardino County, located at the southwest corner of SR 58 and SR 395. The Air Force's purpose and need for the Proposed Action is to respond to the Applicant's (64NB 8me LLC) application for an out grant that would provide a 100-foot right of way to construct, operate, maintain, and decommission an up to 6.5-mile transmission Gen-Tie line line within Edwards AFB Precision Impact Range Area (PIRA). The 412th Civil Engineer Group need for the Proposed Action is driven by requirements to promote the efficient and economical use of real property assets at Edwards AFB in accordance with Executive Order (EO) 13327, Federal Real Property Asset Management. Easements across Air Force lands may be granted if in the public interest (10 USC 2668). The Gen-Tie would be constructed and operated within Corridor 5 of the Utility Corridor Area Development Plan (ADP), and the environmental analysis would tier to and otherwise incorporate the Environmental Assessment for Proposed Utility Corridors at Edwards Air Force Base, California (July 2016). The project proponent seeks a right-of-way term of 40 years. (Attachment 2).

The purpose of the Undertaking is to facilitate transmission of the energy produced at the Aratina Solar Farm to the statewide electrical grid. The Undertaking will provide a means of conveying up to 600 megawatts (MW) of renewable energy to the electric grid to assist the State of California in achieving its 50 percent Renewables Portfolio Standard (RPS) by 2030, and its 100% clean energy goal by 2045, providing energy to the electric grid to meet increasing demand for in-state generation. The Undertaking will enhance grid resiliency and operation by connecting the Aratina Solar Farm's energy storage facilities (battery) to the electric grid. Throughout the life of the Undertaking economic development will be promoted and will bring living-wage jobs to the region.

Findings and Evaluations

Rincon Consultants, Inc. (Rincon) conducted survey for the Aratina solar farm and the Gen-Tie line corridor between February 25 and March 16, 2019. The Aratina solar farm APE consists of approximately 2,317 acres and the Gen-Tie corridor is a 6.5 mile long corridor that is 100-feet wide (118.2-acres). For the purpose of site identification and evaluation, Rincon surveyed a 150-foot wide corridor along the proposed Gen-Tie line.

Background research identified 14 previously recorded sites within the Gen-Tie APE and eleven previously recorded sites within the APE of the Aratina solar farm (four in Site 1, four in Site 2, two in Site 3, one in Site 4, and none in Site 5). During the survey Rincon identified one new site within the Gen-Tie corridor and 49 sites within the Aratina solar farm (11 in Site 1, 15 in Site 2, seven in Site 3, nine in Site 4, and seven in site 5) for a total of 60 sites within Aratina solar farm and 15 sites along the Gen-Tie line. This included 32 prehistoric sites (lithic debitage scatters or isolated lithic material), one multicomponent site (lithic debitage with historic refuse), and 27 historic-era sites (road segments and refuse scatters and deposits). All of the 15 sites along the Gen-Tie corridor are historic sites consisting of historic refuse or road segments (Attachments 3&4).

Rincon provided evaluations of all the sites within the Aratina solar farm and Gen-Tie line and recommended all but one as ineligible for listing in the National Register of Historic Places (NRHP). The one site evaluated as potentially eligible under Criteria D is the newly recorded site S-008, a prehistoric site consisting of 113 pieces of chert, chalcedony, jasper, quartz, and basalt debitage. This site can be avoided and potential impacts mitigated by implementation of project specific mitigation measures (MM) **4.5-1** through **4.5-3:** requiring monitoring by both an archaeologist and tribal cultural monitor, an archaeologist led Cultural Resources Awareness Training provided to all crew and on-site personnel, and flagging to include a 100-foot ESA buffer.

Determination of Effect

Based on the information provided during the background research, survey, and proposed mitigation measures for the project, we agree with Rincon's finding of ***no effect to historic properties*** under Section 106 of NHPA for archaeological site S-008, a site recommended potentially eligible for listing on the NRHP (Criteria D). This site can be avoided by project activities and protected with a 100-foot ESA buffer zone.

Of the 15 archaeological sites within the Gen-Tie corridor, none is considered eligible for listing in the NRHP. For this reason, we concur with Rincon's assessment ***of no effect to historic properties.***

In addition, standard conditions for the treatment of unanticipated discoveries and the Edwards NAGPRA Plan of Action will be implemented upon the discovery of human remains or funerary items (in process).

Summary

The USAF, as lead Federal agency, welcomes your tribe's participation in the Section 106 process and solicits your input about properties of religious or cultural significance. We appreciate your comments regarding the Determination of the Area of Potential Effect per 36 CFR Part 800.4(a) (see Attachment 1), The finding of "No Effect" for the proposed undertaking [pursuant to 36 CFR Part 800.4(d) (2)] as it relates to prehistoric period site (S-008) that has been determined potentially eligible for listing on the NRHP, and the finding of "No Effect" for the proposed gen-tie undertaking. Mitigation Measures consisting of avoidance, cultural resources awareness training, and archaeological and tribal monitoring will be employed for the Undertaking.

If you would like additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please have your staff contact Lynn Shreve, the installation Cultural Resources Manager, at rhena.shreve@us.af.mil or (661) 277-1905.

Sincerely,

SHREVE.RHENA.LYN
N.1264514840

Digitally signed by SHREVE.RHENA.LYNN.1264514840
Date: 2021.11.22 17:54:03 -08'00'

Rhena (Lynn) Shreve
Cultural Resource Manager

Attachments:

Attachment 1: Area of potential effects map to the Aratina site APE
Attachment 2: Area of potential effects map to the Gen-tie APE
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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

22 November 2021

Rhena (Lynn) Shreve
Cultural Resource Manager
412 CEG/CEVA
120 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

Bryan Etsitty
Tribal Historic Preservation Officer
Colorado River Indian Tribes
26600 Mohave Road
Parker, AZ 85344

Re: Section 106 Consultation for the Aratina Solar Project and Generation – Tie Line (8 Minute Energy), Kern and San Bernardino, California

Dear Mr. Etsitty,

The United States (U.S.) Air Force is initiating consultation with the Colorado River Indian Tribes regarding the development of a solar energy-generating project (Aritina Solar Project) and the associated Generation Tie-line, located partially within Edwards Air Force Base (AFB), Kern and San Bernardino Counties, California. This consultation is in accordance with 36 CFR Part 800 (amended August 5, 2004), regulations implementing Section 106 of the National Historic Preservation Act, for this undertaking. The purpose of this consultation is:

1. Notifacation of the Area of Potential Effect per 36 CFR Part 800.4(a);
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Although the Aratina solar generating facility is located entirely within private property, the chosen Gen-Tie line crosses land managed by the Department of the Air Force, Edwards Air Force Base (Edwards AFB). As such, based on a previous opinion by the Advisory Council on Historic Properties (ACHP) on the "Interconnection of Power Generation Facilities to the Bonneville Power Administration Grid Transmission Grid," dated February 27, 2020, Aratina is considered a Connected Action and subject to Section 106 of the NHPA review. The Kern

County Planning and Natural Resources Department is the lead agency under the California Environmental Quality Act and Edwards AFB is the federal lead agency for the Aratina project and the Gen-Tie line.

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Findings and Evaluations

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Background research identified 14 previously recorded sites within the Gen-Tie APE and eleven previously recorded sites within the APE of the Aratina solar farm (four in Site 1, four in Site 2, two in Site 3, one in Site 4, and none in Site 5). During the survey Rincon identified one new site within the Gen-Tie corridor and 49 sites within the Aratina solar farm (11 in Site 1, 15 in Site 2, seven in Site 3, nine in Site 4, and seven in site 5) for a total of 60 sites within Aratina solar farm and 15 sites along the Gen-Tie line. This included 32 prehistoric sites (lithic debitage scatters or isolated lithic material), one multicomponent site (lithic debitage with historic refuse), and 27 historic-era sites (road segments and refuse scatters and deposits). All of the 15 sites along the Gen-Tie corridor are historic sites consisting of historic refuse or road segments (Attachments 3&4)

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In addition, standard conditions for the treatment of unanticipated discoveries and the Edwards NAGPRA Plan of Action will be implemented upon the discovery of human remains or funerary items (in process).

Summary

The USAF, as lead Federal agency, welcomes your tribe's participation in the Section 106 process and solicits your input about properties of religious or cultural significance. We appreciate your comments regarding the Determination of the Area of Potential Effect per 36 CFR Part 800.4(a) (see Attachment 1), The finding of "No Effect" for the proposed undertaking [pursuant to 36 CFR Part 800.4(d) (2)] as it relates to prehistoric period site (S-008) that has been determined potentially eligible for listing on the NRHP, and the finding of "No Effect" for the proposed gen-tie undertaking. Mitigation Measures consisting of avoidance, cultural resources awareness training, and archaeological and tribal monitoring will be employed for the Undertaking.

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Sincerely,

SHREVE.RHENA.LYNN.1264514840 Digitally signed by SHREVE.RHENA.LYNN.1264514840 Date: 2021.11.22 17:35:42 -08'00'

Rhena (Lynn) Shreve
Cultural Resource Manager

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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

22 November 2021

Rhena (Lynn) Shreve
Cultural Resource Manager
412 CEG/CEVA
120 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

Ann Brierty
Tribal Historic Preservation Officer
Morongo Band of Mission Indians
12700 Pumarra Road
Banning, CA 92220

Re: Section 106 Consultation for the Aratina Solar Project and Generation – Tie Line (8 Minute Energy), Kern and San Bernardino, California

Dear Ms. Brierty,

The United States (U.S.) Air Force is initiating consultation with the Morongo Band of Mission Indians regarding the development of a solar energy-generating project (Aritina Solar Project) and the associated Generation Tie-line, located partially within Edwards Air Force Base (AFB), Kern and San Bernardino Counties, California. This consultation is in accordance with 36 CFR Part 800 (amended August 5, 2004), regulations implementing Section 106 of the National Historic Preservation Act, for this undertaking. The purpose of this consultation is:

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SHREVE.RHENA.LYNN.1264514840 Digitally signed by SHREVE.RHENA.LYNN.1264514840 Date: 2021.11.22 12:56:30 -08'00'

Rhena (Lynn) Shreve
Cultural Resource Manager

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EDWARDS AIR FORCE BASE, CALIFORNIA

22 November 2021

Rhena (Lynn) Shreve
Cultural Resource Manager
412 CEG/CEVA
120 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

Jessica Mauck
Director, CRM
San Manuel Band of Mission Indians
26569 Community Center Drive
Highland, CA 92346

Re: Section 106 Consultation for the Aratina Solar Project and Generation – Tie Line (8 Minute Energy), Kern and San Bernardino, California

Dear Ms. Mauck,

The United States (U.S.) Air Force is initiating consultation with the San Manuel Band of Mission Indians regarding the development of a solar energy-generating project (Aritina Solar Project) and the associated Generation Tie-line, located partially within Edwards Air Force Base (AFB), Kern and San Bernardino Counties, California. This consultation is in accordance with 36 CFR Part 800 (amended August 5, 2004), regulations implementing Section 106 of the National Historic Preservation Act, for this undertaking. The purpose of this consultation is:

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The purpose of the Undertaking is to facilitate transmission of the energy produced at the Aratina Solar Farm to the statewide electrical grid. The Undertaking will provide a means of conveying up to 600 megawatts (MW) of renewable energy to the electric grid to assist the State of California in achieving its 50 percent Renewables Portfolio Standard (RPS) by 2030, and its 100% clean energy goal by 2045, providing energy to the electric grid to meet increasing demand for in-state generation. The Undertaking will enhance grid resiliency and operation by connecting the Aratina Solar Farm's energy storage facilities (battery) to the electric grid. Throughout the life of the Undertaking economic development will be promoted and will bring living-wage jobs to the region.

Findings and Evaluations

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Background research identified 14 previously recorded sites within the Gen-Tie APE and eleven previously recorded sites within the APE of the Aratina solar farm (four in Site 1, four in Site 2, two in Site 3, one in Site 4, and none in Site 5). During the survey Rincon identified one new site within the Gen-Tie corridor and 49 sites within the Aratina solar farm (11 in Site 1, 15 in Site 2, seven in Site 3, nine in Site 4, and seven in site 5) for a total of 60 sites within Aratina solar farm and 15 sites along the Gen-Tie line. This included 32 prehistoric sites (lithic debitage scatters or isolated lithic material), one multicomponent site (lithic debitage with historic refuse), and 27 historic-era sites (road segments and refuse scatters and deposits). All of the 15 sites along the Gen-Tie corridor are historic sites consisting of historic refuse or road segments.(Attachments 3&4)

Rincon provided evaluations of all the sites within the Aratina solar farm and Gen-Tie line and recommended all but one as ineligible for listing in the National Register of Historic Places (NRHP). The one site evaluated as potentially eligible under Criteria D is the newly recorded site S-008, a prehistoric site consisting of 113 pieces of chert, chalcedony, jasper, quartz, and basalt debitage. This site can be avoided and potential impacts mitigated by implementation of project specific mitigation measures (MM) **4.5-1** through **4.5-3:** requiring monitoring by both an archaeologist and tribal cultural monitor, an archaeologist led Cultural Resources Awareness Training provided to all crew and on-site personnel, and flagging to include a 100-foot ESA buffer.

Determination of Effect

Based on the information provided during the background research, survey, and proposed mitigation measures for the project, we agree with Rincon's finding of ***no effect to historic properties*** under Section 106 of NHPA for archaeological site S-008, a site recommended potentially eligible for listing on the NRHP (Criteria D). This site can be avoided by project activities and protected with a 100-foot ESA buffer zone.

Of the 15 archaeological sites within the Gen-Tie corridor, none is considered eligible for listing in the NRHP. For this reason, we concur with Rincon's assessment ***of no effect to historic properties.***

In addition, standard conditions for the treatment of unanticipated discoveries and the Edwards NAGPRA Plan of Action will be implemented upon the discovery of human remains or funerary items (in process).

Summary

The USAF, as lead Federal agency, welcomes your tribe's participation in the Section 106 process and solicits your input about properties of religious or cultural significance. We appreciate your comments regarding the Determination of the Area of Potential Effect per 36 CFR Part 800.4(a) (see Attachment 1), The finding of "No Effect" for the proposed undertaking [pursuant to 36 CFR Part 800.4(d) (2)] as it relates to prehistoric period site (S-008) that has been determined potentially eligible for listing on the NRHP, and the finding of "No Effect" for the proposed gen-tie undertaking. Mitigation Measures consisting of avoidance, cultural resources awareness training, and archaeological and tribal monitoring will be employed for the Undertaking.

If you would like additional information pertaining to this proposed project or any aspect of environmental management on Edwards AFB, please have your staff contact Lynn Shreve, the installation Cultural Resources Manager, at rhena.shreve@us.af.mil or (661) 277-1905.

Sincerely,

SHREVE.RHENA.LYNN.1264514840

Digitally signed by SHREVE.RHENA.LYNN.1264514840
Date: 2021.11.22 12:51:49 -08'00'

Rhena (Lynn) Shreve
Cultural Resource Manager

Attachments:

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DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

22 November 2021

Rhena (Lynn) Shreve
Cultural Resource Manager
412 CEG/CEVA
120 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

Colin Rambo
Cultural Resources Management Technician
Tejon Indian Tribe
P.O. Box 640
Arvin, CA 93203

Re: Section 106 Consultation for the Aratina Solar Project and Generation – Tie Line (8 Minute Energy), Kern and San Bernardino, California

Dear Mr. Rambo,

The United States (U.S.) Air Force is initiating consultation with the Tejon Indian Tribe regarding the development of a solar energy-generating project (Aritina Solar Project) and the associated Generation Tie-line, located partially within Edwards Air Force Base (AFB), Kern and San Bernardino Counties, California. This consultation is in accordance with 36 CFR Part 800 (amended August 5, 2004), regulations implementing Section 106 of the National Historic Preservation Act, for this undertaking. The purpose of this consultation is:

1. Notifacation of the Area of Potential Effect per 36 CFR Part 800.4(a);
2. Eligibility determination for the 75 cultural resources within the Aratina Solar Project and the Gen-Tie line corridor;
3. Notifacation of the Determination of Effect for the Generation Tie-line (Gen-Tie); and
4. Notifacation of the the Determination of Effect for the Aratina Solar Project (Aratina).

Although the Aratina solar generating facility is located entirely within private property, the chosen Gen-Tie line crosses land managed by the Department of the Air Force, Edwards Air Force Base (Edwards AFB). As such, based on a previous opinion by the Advisory Council on Historic Properties (ACHP) on the "Interconnection of Power Generation Facilities to the Bonneville Power Administration Grid Transmission Grid," dated February 27, 2020, Aratina is considered a Connected Action and subject to Section 106 of the NHPA review. The Kern

County Planning and Natural Resources Department is the lead agency under the California Environmental Quality Act and Edwards AFB is the federal lead agency for the Aratina project and the Gen-Tie line.

Project Overview

Aratina is a photovoltaic solar facility and associated infrastructure necessary to generate up to 530 megawatts (MW) of renewable energy proposed on approximately 2,317 acres on privately owned land consisting of five sites (Site 1 – 5) on 22 parcels. The proposed project site is located in unincorporated Kern County, straddling State Route 58 between Gephart Road on the west and the San Bernardino County line on the east. The proposed project site is near the unincorporated communities of Boron and Desert Lake and north of the Edwards Air Force Base boundary. The existing U.S. Borax open pit mine and refinery are located approximately two miles north of the project site. The site is located within Sections 5 and 6, Township l0 N, Range 7 W; Sections 1 and 2, Township I0 N, 8 W; and Sections 33 and 35, Township 11 N, Range 8 W, San Bernardino Base Meridian, County of Kern State of California. The project's permanent facilities would include, but are not limited to, service roads, a power collection system, inverter stations, transformer systems, transmission lines, electrical switchyards, project substations, energy (battery) storage system, and operations and maintenance facilities (Attachment 1).

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Sincerely,

SHREVE.RHENA.LYN
N.1264514840

Digitally signed by SHREVE.RHENA.LYNN.1264514840
Date: 2021.11.22 12:54:07 -08'00'

Rhena (Lynn) Shreve
Cultural Resource Manager

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Tribal Correspondence – Yuhaaviatam of San Manuel Nation (formerly San Manuel Band of Mission Indians)

From: Ryan Nordness <Ryan.Nordness@sanmanuel-nsn.gov>
Sent: Thursday, June 16, 2022 2:02 PM
To: Christopher Duran <cduran@rinconconsultants.com>
Subject: RE: [EXT] RE: Aratina Follow Up

CAUTION: This email originated from outside of Rincon Consultants. Be cautious before clicking on any links, or opening any attachments, until you are confident that the content is safe .

Hello Christopher,
Thank you for that retrieval and the impromptu storage necessary to keep the artifact safe until its reburial. This is a confirmation email that San Manuel is abreast and in concurrence with the methods of Rincon's retrieval and their communication with the tribe regarding ISO-0031. Should there be any concerns or questions regarding this, please reach out me at your earliest convenience.

From: Christopher Duran <cduran@rinconconsultants.com>
Sent: Wednesday, March 16, 2022 5:47 PM
To: Ryan Nordness <Ryan.Nordness@sanmanuel-nsn.gov>
Subject: Re: [EXT] RE: Aratina Follow Up

Hi Ryan, I now have the pendent here in Ventura.

Christopher A. Duran, MA, RPA
Principal
928-606-5020

From: Christopher Duran
Sent: Wednesday, March 16, 2022 3:39:43 PM
To: Ryan Nordness <Ryan.Nordness@sanmanuel-nsn.gov>
Subject: RE: [EXT] RE: Aratina Follow Up

Hi Ryan,

My staff member will be back in Ventura by COB with the pendent. As of right now, the artifact is collected and out of harms way. We will temporarily curate the item until reburial or until an onsite storage option presents itself, whichever comes first. If another consultant is selected for future phases of the project prior to the reburial effort, we will transfer the item to the new firm, as appropriate. Please let me know if there's anything else the Tribe requires.

If this effort satisfies the Tribe's concern, please reply to the previous email with the County staff copied indicating that nothing else is needed at this time to secure ISO-031. Thanks, Ryan!

Christopher A. Duran, MA, RPA, Principal
Rincon Consultants, Inc.
Scientists | Planners | Engineers
805-644-4455 Office
805-947-4838 Direct
928-606-5020 Mobile
rinconconsultants.com

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

Trusted | Fair | Transparent | Accountable | Disciplined | Entrepreneurial

Ranked 2021 "Best Environmental Services Firm to Work For" by Zweig Group

From: Christopher Duran
Sent: Wednesday, March 16, 2022 2:34 PM
To: Ryan Nordness <Ryan.Nordness@sanmanuel-nsn.gov>
Subject: RE: [EXT] RE: Aratina Follow Up

Hi Ryan,

ISO-031 has been collected and is on its way back to Ventura. I will let you know as soon as it arrives.

Christopher A. Duran, MA, RPA, Principal
Rincon Consultants, Inc.
Scientists | Planners | Engineers
805-644-4455 Office
805-947-4838 Direct
928-606-5020 Mobile
rinconconsultants.com

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Environmental Scientists | Planners | Engineers
rinconconsultants.com

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Ranked 2021 "Best Environmental Services Firm to Work For" by Zweig Group

From: Ryan Nordness <Ryan.Nordness@sanmanuel-nsn.gov>
Sent: Tuesday, March 15, 2022 10:04 AM
To: Christopher Duran <cduran@rinconconsultants.com>
Subject: [EXT] RE: Aratina Follow Up

CAUTION: This email originated from outside of Rincon Consultants. Be cautious before clicking on any links, or opening any attachments, until you are confident that the content is safe .

Thank you Chris!

From: Christopher Duran <cduran@rinconconsultants.com>
Sent: Monday, March 14, 2022 4:10 PM

To: Ryan Nordness <Ryan.Nordness@sanmanuel-nsn.gov>
Subject: RE: Aratina Follow Up

Hi Ryan,

Thank you for the follow up call. Rincon will be happy to collect the item and temporarily curate the artifact with our Ventura office until the reburial or until an onsite storage option is identified. We can also transfer the artifact if another consultant is selected for the follow on work. I'm working on having our team recover ISO-031 this week. I will let you know as soon as we have the item secured within our offices. Please let me know if there's anything else you require. Thanks.

Chris

Christopher A. Duran, MA, RPA, Principal
Rincon Consultants, Inc.
Scientists | Planners | Engineers
805-644-4455 Office
805-947-4838 Direct
928-606-5020 Mobile
rinconconsultants.com

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Ranked 2021 "Best Environmental Services Firm to Work For" by Zweig Group

From: Christopher Duran
Sent: Monday, March 14, 2022 2:42 PM
To: Ryan Nordness <Ryan.Nordness@sanmanuel-nsn.gov>
Subject: Aratina Follow Up

Hi Ryan,

It was good meeting you over the phone today. Myself and our Field Director, Dustin Merrick, will be able to meet on Thursday to relocate the item. We'll have a GPS with us to navigate to the location. Is there a good time that works for you? Boron would likely be the best place to meet. The jobsite is about 2.5 hours from my location. Would 10-10:30 work for you?

8minute has agreed to rebury the item once the plans are finalized and they can provide some locations free of future disturbance for the tribe to review. Please let me know if the Tribe would agree to temporary offsite curation or if it would be best to leave in place until construction trailers are installed where the artifact can be kept until reburial. Please let me know if this course of action is acceptable to the Tribe so that we may consider this matter addressed and proceed with the next steps. Thanks, Ryan.

Chris

Christopher A. Duran, MA, RPA, Principal
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Section 106 SHPO Consultation

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 412TH TEST WING (AFMC)
EDWARDS AIR FORCE BASE, CALIFORNIA

1 December 2021

Rhena (Lynn) Shreve
Cultural Resource Manager
412 CEG/CEVA
120 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

Julianne Polanco
State Historic Preservation Officer
Office of Historic Preservation
1725 23rd Street, Suite 100
Sacramento, CA 95816

Re: Section 106 concurrence for the Aratina Solar Project and Generation – Tie Line (8 Minute Energy), Kern and San Bernardino, California

Dear Ms. Polanco

The United States (U.S.) Air Force is consulting with the State Historic Preservation Officer (SHPO) regarding the Aritina Solar Project and Generation Tie-line, located partially within Edwards Air Force Base (AFB), Kern and San Bernardino Counties, California. This consultation is in accordance with 36 CFR Part 800 (amended August 5, 2004), regulations implementing Section 106 of the National Historic Preservation Act, for this undertaking. Herein, we provide information with the goal of obtaining SHPO concurrence on the following:

1. Determination of the Area of Potential Effect per 36 CFR Part 800.4(a);
2. Eligibility determination for the 75 cultural resources within the Aratina Solar Project and the Gen-Tie line corridor;
3. Determination of Effect for the Generation Tie-line (Gen-Tie); and
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and the Gen-Tie line.

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In addition, standard conditions for the treatment of unanticipated discoveries and the Edwards NAGPRA Plan of Action will be implemented upon the discovery of human remains or funerary items (in process).

Request for Concurrence

Edwards AFB requests your concurrence on the following items:

1. Determination of the Area of Potential Effect per 36 CFR Part 800.4(a) (see Attachment 1);
2. The finding of "No Effect" for the proposed undertaking [pursuant to 36 CFR Part 800.4(d) (2)] as it relates to prehistoric period site (S-008) that has been determined potentially eligible for listing on the NRHP. Training, archaeological, and tribal monitoring will be employed for the project.
3. The finding of "No Effect" for the proposed gen-tie undertaking.

Conclusion

We hope that the information provided in this letter, along with attached documents, will be sufficient to obtain your concurrence on the EAFB findings of no effect. We value your time and partnership and appreciate your timely response. If you have any questions, please contact Lynn Shreve at rhena.shreve@us.af.mil or (661) 277-1905.

Sincerely,

SHREVE.RHENA.LYNN.1264514840

Digitally signed by SHREVE.RHENA.LYNN.1264514840
Date: 2021.12.01 12:37:24 -08'00'

Rhena (Lynn) Shreve
Cultural Resource Manager

4 Attachments:

1. Area of potential effects map to the Aratina site APE
2. Area of potential effects map to the Gen-tie APE
3. Aratina Solar Project Cultural Resources Assessment Report Volume IV
4. Generation Tie Line Corridor for the Aratina Solar Farm ProjectAratina Solar Farm Project

State of California • Natural Resources Agency
Gavin Newsom, *Governor*

DEPARTMENT OF PARKS AND RECREATION
OFFICE OF HISTORIC PRESERVATION
Armando Quintero, *Director*

Julianne Polanco, State Historic Preservation Officer
1725 23rd Street, Suite 100, Sacramento, CA 95816-7100
Telephone: (916) 445-7000 FAX: (916) 445-7053
calshpo.ohp@parks.ca.gov www.ohp.parks.ca.gov

December 21, 2021

Reply in Reference to: USAF_2021_1124_001

Rhena Lynn Shreve
Cultural Resource Manager
412 CEG/CEVA
20 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

VIA ELECTRONIC MAIL

Re: Section 106 Consultation for Aratina Solar Project and Generation, Tie Line, Edwards Air Force Base, Kern and San Bernardino Counties

Dear Ms. Shreve:

The United States Air Force (USAF) is initiating consultation with the State Historic Preservation Officer (SHPO) regarding its effort to comply with Section106 of the National Historic Preservation Act of 1966 (54 U.S.C. 306108), as amended, and its implementing regulation found at 36 CFR Part 800. According to its December 1, 2021 consultation letter, the USAF is consulting on the Aratina Solar Project and associated Generation Tie-line (Gen-Tie) and states that the USAF considers these components to be a “Connected Action” subject to section 106 review.

The USAF’s undertaking description states that they are proposing to establish a 6.5-mile, 230 kV Gen-Tie line originating from an onsite substation in Kern County and terminating at the Southern California Edison (SCE) Kramer substation in San Bernardino County. The undertaking would “provide a 100-foot right of way to construct, operate, maintain, and decommission an up to 6.5-mile transmission Gen-Tie line within Edwards AFB Precision Impact Range Area.”

Historic property identification efforts within the Gen-Tie corridor identified one unrecorded prehistoric site identified as S-008. Overall, 60 sites within Aratina solar farm and 15 sites along the Gen-Tie line were identified.

The USAF is requesting concurrence on the following determinations and findings:

- *Determination of the Area of Potential Effects per 36 CFR Part 800.4(a);*

- *Eligibility determination for the 75 cultural resources within the Aratina Solar Project and the Gen-Tie line corridor;*
- *Determination of Effect for the Generation Tie-line (Gen-Tie);*
- *Determination of Effect for the Aratina Solar Project (Aratina);*
- *The finding of "No Effect" for the proposed undertaking [pursuant to 36 CFR Part 800.4(d) (2)] as it relates to prehistoric period site (S-008) that has been determined potentially eligible for listing on the NRHP. Training, archaeological, and tribal monitoring will be employed for the project; and*
- *The finding of "No Effect" for the proposed Gen-Tie undertaking.*

After reviewing the information provided in support of these determinations and findings, including the *Phase I Cultural Resources Study for the Generation Tie Line Corridor for the Aratina Solar Farm Project* (July:2020) (report), the SHPO offers the following comments:

1) Pursuant to 36 CFR Part 800.2, please provide a list of Native American tribes obtained from the Native American Heritage Commission and evidence of tribal notification.

2) The USAF appears to be requesting concurrence on individual findings of effect for the Gen-Tie line and solar facility construction, yet the letter describes these as a connected action. Additionally, the USAF's letter and report only address the proposed Gen-Tie project. The SHPO requests that the USAF accurately establish the undertaking pursuant to 36 CFR 800.3(a).

3) The SHPO cannot comment on the undertaking's area of potential effects (APE) and historic property identification efforts until the undertaking has been established.

4) The USAF's submission uses the terms "impacts," "no effect," and "potentially eligible." These are not valid terms under the National Historic Preservation Act. Please check all documents for accuracy and correct references and terminology as needed.

5) The SHPO requests the USAF submit all requisite information pursuant to 36 CFR Part 800.11 and recommends that the USAF carefully review the documentation submitted in support of this undertaking for accuracy, adequacy, and consistency. It is recommended that the USAF review the section 106 regulations and the information found at the link below: https://ohp.parks.ca.gov/pages/1071/files/Section106_Checklist.pdf

6) Until the information requested in this letter is provided, the SHPO **cannot** comment or concur on the USAF's determinations and findings.

This letter is being sent in electronic format only. Please confirm receipt of this letter and notify Ed Carroll, Historian II, at (916) 445-7006 or Ed.Carroll@parks.ca.gov if there are any questions or to request a hard copy of this letter.

Sincerely,

Julianne Polanco
State Historic Preservation Officer

State of California • Natural Resources Agency
Gavin Newsom, *Governor*

DEPARTMENT OF PARKS AND RECREATION
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April 6, 2022

Reply in Reference to: USAF_2021_1124_001

Rhena Lynn Shreve
Cultural Resource Manager
412 CEG/CEVA
20 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

VIA ELECTRONIC MAIL

Re: Section 106 Consultation for Aratina Solar Project and Generation Tie Line, Edwards Air Force Base, Kern and San Bernardino Counties

Dear Ms. Shreve:

Due to the significant amount of staff time required for the review of the USAF's recent consultations at Edwards Air Force Base, the SHPO is hereby requesting additional review time to prepare its comments on the USAF's documentation and finding of effect for the Aratina Solar Project. A comment letter will be provided no later than April 22, 2022. If this request cannot be accommodated, please notify Ed Carroll, State Historian II, at Ed.Carroll@parks.ca.gov.

Sincerely,

Julianne Polanco
State Historic Preservation Officer

State of California • Natural Resources Agency
Gavin Newsom, *Governor*

DEPARTMENT OF PARKS AND RECREATION
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Armando Quintero, *Director*

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April 12, 2022

Reply in Reference to: USAF_2021_1124_001

Rhena Lynn Shreve
Cultural Resource Manager
412 CEG/CEVA
20 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

VIA ELECTRONIC MAIL

Re: Section 106 Consultation for Aratina Solar Project and Generation Tie Line, Edwards Air Force Base, Kern and San Bernardino Counties

Dear Ms. Shreve:

The United States Air Force (USAF) is continuing consultation with the State Historic Preservation Officer (SHPO) regarding its effort to comply with Section106 of the National Historic Preservation Act of 1966 (54 U.S.C. 306108), as amended, and its implementing regulation found at 36 CFR Part 800.

In response to the SHPO's December 1, 2021 letter, the USAF provided additional information in their March 8, 2022 letter regarding their Area of Potential Effects (APE) and undertaking definition, historic property identification and tribal consultation efforts, and application of adverse effect criteria. Having reviewed this information, the SHPO has the following comments:

1. The USAF's project area maps (Attachment 1) appear to only illustrate the Gen-Tie routes. Additionally, there is no accompanying narrative APE description from which to analyze the adequacy of the USAF's APE definition. Please provide a "7.5-minute USGS topographic quad map and aerial imagery in appropriate detail and scale and details on the vertical extent of proposed work, including depth of disturbance as well as the potential to introduce visual elements that might diminish the integrity of significant historic features, including those that Indian tribes attach religious and cultural significance to."

2. In their initial consultation letter, the USAF described the Gen-Tie line and infrastructure components as a "connected action" yet the documentation provided does not support this statement. The SHPO reiterates its request that the USAF

accurately establish the undertaking pursuant to 36 CFR 800.3(a) and provide all requisite information pursuant to 36 CFR Part 800.11.

3. The USAF's eligibility determinations table should be presented as formal *determinations* and concurrence requests under the USAF's letterhead rather than as an informal, separate table making only *recommendations* of eligibility. Please provide a clear and concise inventory of all historic properties within the APE accompanied by a request for concurrence or denoting previous SHPO concurrence where appropriate.

4. The USAF's project site documentation is presented in separate sections (Project Sites 3, 4, 5, etc.) but the USAF did not explain what each project site is or why they are in separate volumes. For example, Volume IV seemingly corresponds to what is termed "Project Site 3." A Project Site 3 Description is included on Page 1 of Volume IV however it only addresses the geography and plant/animal communities at the site. Furthermore, the nature of this documentation appears to be a public non-confidential version with no location information.

5. Until the information requested in this letter is provided, the SHPO **cannot** concur with the USAF's finding of no adverse effect.

Should the USAF believe that a meeting to discuss these comments would be useful, please notify Ed Carroll, Historian II, at Ed.Carroll@parks.ca.gov.

Sincerely,

Julianne Polanco
State Historic Preservation Officer

12 May 2022

Rhena (Lynn) Shreve
Cultural Resource Manager
412 CEG/CEVA
120 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

Julianne Polanco
State Historic Preservation Officer
Office of Historic Preservation
1725 23rd Street, Suite 100
Sacramento, CA 95816

Re: USAF_2021_1124_001

Section 106 Consultation for Aratina Solar Project and Generation Tie Line, Edwards Air Force Base, Kern and San Bernardino Counties

Dear Ms. Polanco,

In accordance with Section 106 of the National Historic Preservation Act (NHPA) and 36 CFR Part 800, the Department of the Air Force, Edwards Air Force Base (EAFB), is advising your office of a planned undertaking that has the potential to affect historic properties. *The Aratina Solar Project, as proposed by 64NB 8ME, LLC (8Minute Energy)*, would develop a photovoltaic solar facility and associated infrastructure as necessary on privately-owned land in unincorporated Kern County. EAFB would provide a 100-foot right of way to construct, operate, maintain, and decommission an approximate 6.5-mile transmission Gen-Tie line within Edwards AFB.

EAFB is the lead federal agency on the project and is providing the State Historic Preservation Office (SHPO) with the project details below. We look forward to your review of the information provided and hope you find it sufficient to concur with the defined Area of Potential Effect (APE) and EAFB determination of No Adverse Effect to historic resources present within the proposed APE (Attachment 1)

The proposed undertaking consists of five separate work locations (Sites 1 through 5) located on 22 parcels and totals approximately 2,554 acres; however, it is anticipated that approximately 2,317 acres will be utilized for the construction of the solar panels and permanent facilities. The project's permanent facilities would include, but are not limited to, service roads, a power collection system, inverter stations, transformer systems, transmission lines, electrical switchyards, project substations, energy (battery) storage system, and operations and maintenance facilities. The Gen-Tie line corridor for the Aratina Solar Farm is projected to originate from on- site substation in Kern County and terminating at Southern California Edison (SCE) Kramer substation in San Bernardino County (Attachment 1a)

This Undertaking is situated adjacent to and along the right of way to EAFB northern boundary, the majority of proposed activities are to occur in southeastern Kern County north of the Edwards AFB boundary and are subject to approval by Kern County. Discussions among your office, (Advisory Council for Historic Preservation) ACHP and EAFB determined that this off-base undertaking is connected action and the APE consist of both the location in Kern Co and on EAFB. Therefore the Area of Potential Effect (APE) has been defined as the entire project area consisting of the locations in Kern Co and the Gen-Tie line traversing EAFB (Attachment1& 1a). In August 2021, Kern County completed and made available to the public, a Final Environmental Impact Report (FEIR) for the proposed Aratina Solar Project pursuant to the California Environmental Quality Act (CEQA). This document was made available to your office for review as part of the State Clearinghouse of Planning and Research process (Attachment 2)

On June 17, 2020 SB 18 notification letters were sent to the 14 Tribal groups indicated by the NAHC and on June 17, 2020 Kern County sent consultation notification letters pursuant to the requirements of AB 52 pertaining to government-to-government consultation to The Kern Valley Indian Community, the San Manuel Band of Mission Indians (SMBMI), Tejon Tribe, Torres Martinez Desert Cahuilla Indians, and the Twenty-Nine Palms Band of Mission Indians. On November 26, 2021, EAFB sent Section 106 consultation letters for the connected action to five federally recognized tribes: Chemehuevi Indian Tribe, the Colorado River Indian Tribes, Yuhaaviatm San Manuel Nation (YSMN) formerly SMBMI, the Morongo Band of Mission Indian and the Tejon Indian Tribes (Attachment 3)

EAFB Archaeological Research, Evaluations, Eligibility and Summaries

Cultural resource surveys of the gen-tie APE identified and recorded 1 previously unrecorded site and updated 14 previously recorded sites. Cultural resource surveys within the Aratina solar project APE identified and recorded 60 archaeological sites (Attachment 4, Attach 4a, 4b)

Based on the Cultural Resources Assessment Reports completed by Rincon, one cultural resource site (S-008) located in Aratina Solar Farm Site 4 has been identified as eligible for listing on the National Register of Historic Places. Edwards AFB has assumed eligibility of this resource. Additionally, one isolate (ISO-031), located within Aratina Solar Farm Site 3, originally identified as ineligible during the Phase 1 cultural resources survey has been identified as culturally significant by SMBMI (Attachment). Two cultural resources (P-15-000560, and P-15-017304) have been identified within EAFB boundaries and the installation has assumed eligibility of these sites under the National Register of Historic Places. (Attachment 5)

EAFB agrees with Rincon's archaeological assessments and based on their recommendations proposes that there will be No Adverse Effect to resources due to implementation of archaeological sensitivity training prior to project ground disturbance. To further ensure resource protection archaeological and Native American monitoring during project ground disturbance will occur. Avoidance of prehistoric sites Aratina S-004 and Aratina S-006 plus a 100-foot buffer around these sites should protect them during project implementation. Aratina S-008 will be avoided during all construction activities. If the undertaking changes and avoidance is not feasible additional mitigation will be required. (Attachment 5)

Research indicates that there is very little chance that any other historic properties will be discovered during project execution. However, if unanticipated discoveries are made, Edwards' CRM personnel will reopen consultation with the SHPO, per the requirements of 36 CFR Part 800. EAFB agrees that monitoring and site avoidance will be conducted during all construction activities. Routine Plans of Action to protect cultural resources already in place will be followed. Therefore, EAFBs has determined that there will be No Adverse Effect to eligible resources during the proposed undertaking at all locations within the entire APE of the Aratina Solar within Kern County and Edwards AFB Gen-Tie locations.

Thank you for your continued interest and involvement in this partnership. EAFB has carefully reviewed the archaeological information and proposed site protection methods supporting this undertaking and finds it to be sufficient. Therefore we are seeking concurrence on EAFB No Adverse Effect determination and the Kern Co/EAFB connected undertaking APE. Please contact Lynn Shreve at rhena.shreve.1@us.af.mil to share your comments or to let us know if you require any further information.

Sincerely,

RHENA LYNN SHREVE, NH-III
Cultural Resource Manager

Attachments:
Attachment 1 Map proposed APE
Attachment 1a Map of APE Section Numbers
Attachment 2 Additional Assessments and Documentation
Attachment 3 Tribal Correspondence
Attachment 4 Map Site eligibility and location
Attachment 4a Map-Site eligibility and location
Attachment 4b Map Site eligibility and location
Attachment 5 Table-Section, Site, Eligibility, Recommendations

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OFFICE OF HISTORIC PRESERVATION
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June 10, 2022

VIA ELECTRONIC MAIL

Reply in Reference to: USAF_2021_1124_001

Rhena Lynn Shreve
Cultural Resource Manager
412 CEG/CEVA
20 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

Subject: Section 106 Consultation for Aratina Solar Project and Generation Tie Line, Edwards Air Force Base, Kern and San Bernardino Counties

Dear Ms. Shreve:

The United States Air Force (USAF) is continuing consultation with the State Historic Preservation Officer (SHPO) regarding its effort to comply with Section106 of the National Historic Preservation Act of 1966 (54 U.S.C. 306108), as amended, and its implementing regulation found at 36 CFR Part 800.

In response to the SHPO's April 12, 2022 letter and subsequent to a May 4, 2022 telephone conference, the USAF provided additional information in a May 12, 2022 letter regarding their Area of Potential Effects (APE) and undertaking definition, historic property identification and tribal consultation efforts, and application of adverse effect criteria.

SHPO staff are currently reviewing the information submitted, and will have a response to you by/on Friday, June 17, 2022.

Please contact Jenan Saunders, Deputy State Historic Preservation Officer, at Jenan.Saunders@parks.ca.gov if there are any questions at this time.

Sincerely,

Julianne Polanco
State Historic Preservation Officer

DRAFT

State of California • Natural Resources Agency
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DEPARTMENT OF PARKS AND RECREATION
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June 14, 2022

Reply in Reference to: USAF_2021_1124_001

Rhena Lynn Shreve
Cultural Resource Manager
412 CEG/CEVA
20 North Rosamond Boulevard, Suite A
Edwards Air Force Base, CA 93524

VIA ELECTRONIC MAIL

Re: Section 106 Consultation for Aratina Solar Project and Generation Tie Line, Edwards Air Force Base, Kern and San Bernardino Counties

Dear Ms. Shreve:

The United States Air Force (USAF) is continuing consultation with the State Historic Preservation Officer (SHPO) regarding its effort to comply with Section106 of the National Historic Preservation Act of 1966 (54 U.S.C. 306108), as amended, and its implementing regulation found at 36 CFR Part 800.

In response to the SHPO's April 12, 2022 letter and subsequent to a May 4, 2022 telephone conference, the USAF provided additional information in a May 12, 2022 letter regarding their Area of Potential Effects (APE) and undertaking definition, historic property identification and tribal consultation efforts, and application of adverse effect criteria.

USAF clarified in its May 12th letter that the undertaking for the purposes of Section 106 is defined as both the photovoltaic solar facility and the 6.5-mile transmission Gen-Tie line to be constructed, operated, and maintained in five separate work locations. The APE includes all project areas associated with the undertaking. No concerns regarding effects to historic properties were provided during consultation with local Native American Indian tribes.

USAF provided the following documents in support of its determinations and finding that no adverse effects to historic properties will result from this undertaking:

- *Aratina Solar Project Cultural Resources Assessment Report Volume I* (Rincon Consultants, Inc., August 2020)

- *Aratina Solar Project Cultural Resources Assessment Report Volume II (*Rincon Consultants, Inc., August 2020)
- *Aratina Solar Project Cultural Resources Assessment Report Volume III* (Rincon Consultants, Inc., August 2020)
- *Aratina Solar Project Cultural Resources Assessment Report Volume IV* (Rincon Consultants, Inc., August 2020)
- *Aratina Solar Project Cultural Resources Assessment Report Volume V* (Rincon Consultants, Inc., August 2020)
- *Aratina Solar Project Cultural Resources Assessment Report Volume VI* (Rincon Consultants, Inc., August 2020)

Having reviewed this information, the SHPO has the following comments:

- Pursuant to 36 CFR § 800.4(a)(1), I find the Area of Potential Effects as defined to be appropriate;
- Pursuant to 36 CFR § 800.4(b)(1), I find the efforts to identify historic properties within the APE to be reasonable and in good faith;
- Pursuant to 36 CFR § 800.4(c)(2), **I concur** with the evaluations of historic significance and determinations of eligibility for listing in the National Register of Historic Places made (please see attachment to this letter);
- I agree that it is appropriate to treat archaeological site S-008 as eligible for listing in the NRHP for the purposes of this undertaking as it will be completely avoided by all project actions and activities;
- Pursuant to 36 CFR § 800.5(b), **I do not object** to a finding of no adverse effects to historic properties;
- Please consider that in the event of a post-review discovery or change in project design, USAF might have additional responsibilities pursuant to 36 CFR 800.

This letter is being sent in electronic format only. Please confirm receipt of this letter. Please notify Ed Carroll, Historian II, at Ed.Carroll@parks.ca.gov or (619) 678-2609 or Brendon Greenaway, Associate State Archaeologist at Brendon.Greenaway@parks.ca.gov if there are any questions or to request a hard copy of this letter.

Sincerely,

Julianne Polanco
State Historic Preservation Officer

Cultural Resources Inventory for the Aratina Solar Project				
Site Number	**Age**	**Eligibility**	**Description**	**Recommendation**
Site 1				
P-15-006596	Historic	Ineligible	Domestic refuse deposit	No Further Work
P-15-007160	Historic	Ineligible	Domestic refuse deposit	No Further Work
P-15-017320	Historic	Ineligible	Unpoaved PG&E access road	No Further Work
P-15-017321	Historic	Ineligible	Portion of Boron Road	No Further Work
S-011	Prehistoric	Ineligible	Lithic debitage scatter	No Further Work
S-011H	Historic	Ineligible	Domestic refuse deposit	No Further Work
S-012H	Historic	Ineligible	Domestic refuse deposit	No Further Work
S-013H	Historic	Ineligible	Domestic refuse deposit	No Further Work
S-017H	Historic	Ineligible	Road segment	No Further Work
S-020H	Historic	Ineligible	Road segment	No Further Work
S-022H	Historic	Ineligible	Domestic refuse deposit	No Further Work
S-023H	Historic	Ineligible	Domestic refuse deposit	No Further Work
S-024H	Historic	Ineligible	Domestic refuse deposit	No Further Work
S-025H	Historic	Ineligible	Domestic refuse deposit	No Further Work
S-026H	Historic	Ineligible	Domestic refuse deposit	No Further Work
Site 2				
P-15-008723	Prehistoric	Ineligible	Isolated chalcedony flake	No Further Work
P-15-008724	Prehistoric	Ineligible	Isolated chalcedony flake	No Further Work
P-15-017319	Historic	Ineligible	0.5 mile long segment of Jessie St and associated refuse	No Further Work
P-15-017320	Historic	Ineligible	Unnamed dirt road segment associated with PG&E access	No Further Work
Aratina Iso-020	Prehistoric	Ineligible	Obsidian pressure flake	No Further Work
Aratina Iso-021	Prehistoric	Ineligible	Chalcedony interior flake	No Further Work
Aratina Iso-024	Prehistoric	Ineligible	Basalt interior flake	No Further Work
Aratina Iso-025	Prehistoric	Ineligible	CCS interior flake	No Further Work
Aratina Iso-026	Prehistoric	Ineligible	Two CCS flakes	No Further Work
Aratina Iso-027	Prehistoric	Ineligible	CCS cortical flake	No Further Work
Aratina-S-014H	Historic	Ineligible	Road segment	No Further Work
Aratina-S-016H	Historic	Ineligible	Refuse scatter	No Further Work
Aratina-S-017H	Historic	Ineligible	Road segment	No Further Work
Aratina-S-019H	Historic	Ineligible	Refuse scatter	No Further Work
Aratina-S-012	Prehistoric	Ineligible	Lithic debitage scatter (38 CCS flakes)	No Further Work

Aratina-S-013	Prehistoric	Ineligible	Lithic debitage scatter (13 CCS flakes)	No Further Work
Aratina-S-014	Prehistoric	Ineligible	Lithic debitage scatter (6 flakes)	No Further Work
Aratina-S-015	Prehistoric	Ineligible	Lithic debitage scatter (3 flakes and one core frag)	No Further Work
Aratina-S-016	Prehistoric	Ineligible	Lithic debitage scatter (33 CCS flakes)	No Further Work
Site 3				
P-15-012426	Historic	Ineligible	Refuse scatter	No Further Work
P-15-017319	Historic	Ineligible	0.5 mile long segment of Jessie St and associated refuse	No Further Work
S-018H	Historic	Ineligible	Clay plant ruins	No Further Work
S-021H	Historic	Ineligible	Refuse scatter	No Further Work
ISO-23	Prehistoric	Ineligible	Two pieces of debitage	No Further Work
ISO-28	Prehistoric	Ineligible	One piece of debitage	No Further Work
ISO-29	Prehistoric	Ineligible	One piece of debitage	No Further Work
ISO-30	Prehistoric	Ineligible	One piece of debitage	No Further Work
ISO-31	Prehistoric	Ineligible	Slate pendant	No Further Work
Site 4				
P-15-017318	Historic	Ineligible	Road segment	No Further Work
S-008	Prehistoric	eligible	Lithic debitage scatter (113 pieces of debitage)	Testing or avoidance
S-010	Prehistoric	Ineligible	Lithic debitage	No Further Work
S-004H	Prehistoric	Ineligible	Refuse scatter	No Further Work
S-0001M	Multicomponent	Ineligible	Lithic debitage with historic refuse	No Further Work
Iso-012	Prehistoric	Ineligible	One piece of debitage	No Further Work
Iso-013	Prehistoric	Ineligible	One piece of debitage	No Further Work
Iso-014	Historic	Ineligible	Diesel engine	No Further Work
Iso-015	Prehistoric	Ineligible	Projectile point	No Further Work
Iso-032	Prehistoric	Ineligible	One piece of debitage	No Further Work
Site 5				
S-001	Prehistoric	Ineligible	Lithic debitage scatter	No Further Work
S-002	Prehistoric	Ineligible	Lithic debitage scatter	No Further Work
S-003	Prehistoric	Ineligible	Lithic debitage scatter	No Further Work
S-001H	Historic	Ineligible	Refuse scatter	No Further Work
ISO-001	Prehistoric	Ineligible	One piece of debitage	No Further Work
ISO-002	Prehistoric	Ineligible	One piece of debitage	No Further Work

ISO-003	Prehistoric	Ineligible	One piece of debitage	No Further Work
Gen-tie Line				
ARA-S-003	Historic	Ineligible	Refuse scatter	No Further Work
EAFB-802/CA-SBr-7431H	Historic	Ineligible	Unpaved road segment	No Further Work
EAFB-1330	Historic	Ineligible	Refuse scatter, artifacts no longer present, presumed destroyed	No Further Work
EAFB-2721/CA-KER-5330	Historic	Ineligible	Refuse scatter	No Further Work
EAFB-2724/CA-KER-5510	Historic	Ineligible	Isolated crushed can and survey marker , site presumed destroyed	No Further Work
EAFB-2734/CA-SBr-9483	Historic	Ineligible	Refuse scatter	No Further Work
EAFB-2735/CA-SBR-9484	Historic	Ineligible	Refuse deposit	No Further Work
EAFB-3219/CA-SBR-10727	Historic	Ineligible	Refuse deposit	No Further Work
EAFB-3737/CA-SBR-12450	Historic	Ineligible	Refuse Deposit	No Further Work
EAFB-3738/CA-SBR-12451	Historic	Ineligible	Refuse scatter	No Further Work
EAFB-3817	Historic	Ineligible	Unpaved expedition route used in 1868; presumed destroyed	N/A
EAFB-3852	Historic	Ineligible	Two-track road segment	No Further Work
EAFB-3853	Historic	Ineligible	Unpaved historic road segment, presumed destroyed	N/A
EAFB-3854	Historic	Ineligible	Unpaved historic road segment, presumed destroyed	N/A
EAFB-3893	Historic	Ineligible	Unpaved historic road segment, presumed destroyed	N/A

U.S. Fish and Wildlife Service Correspondence

United States Department of the Interior
U.S. FISH AND WILDLIFE SERVICE
Ecological Services
Palm Springs Fish and Wildlife Office
777 East Tahquitz Canyon Way, Suite 208
Palm Springs, California 92262

In Reply Refer to:
FWS-KRN-15B0042-20CPA0199

October 9, 2020
Sent by Email

Alexander Sundquist
Vice President, Land Development
64NB 8me LLC c/o 8minute Solar Energy
5455 Wilshire Boulevard, Suite 2010
Los Angeles, California 90036

Subject: Aratina Solar Project, Kern County, California

Dear Mr. Sundquist:

By electronic mail to Ray Bransfield of my staff, dated September 10, 2020, you requested that the U.S. Fish and Wildlife Service (Service) confirm the discussions we have had with you regarding the Aratina Solar Project. As we discussed, 8minute Solar Energy is considering the development of photovoltaic facilities on approximately 2,673 acres in several parcels near the town of Boron.

During our discussions, you noted that EnviroPlus Consulting, Inc., had surveyed the parcels in the spring of 2019 but did not detect any desert tortoises (*Gopherus agassizii*), which are federally listed as a threatened species. They found a carcass of a desert tortoise that was more than 4 years old and several burrows in deteriorated condition. The condition of the burrows indicated that desert tortoises had not used them in some time.

A portion of a generator tie-in line alternative could cross Edwards Air Force Base to Kramer Substation via a designated utility corridor. The U.S. Air Force has consulted with the Service, pursuant to section 7(a)(2) of the Endangered Species Act of 1973, as amended, regarding management of its lands. If it intends to authorize use of its right-of-way for the generator tie-in line, the Air Force could include it as an activity under its existing biological opinion.

8minute Solar Energy could alternatively route a generator tie-in line to Holgate Substation entirely across non-federal lands. Therefore, because the potential route of the generator tie-in line through Edwards Air Force Base would not be the only way to facilitate the construction and operation of the solar facility, the Air Force consultation would not include the solar facility itself.

During the meeting with our staff, you inquired whether the Service would recommend that 8minute Solar Energy apply for an incidental take permit for the desert tortoise for the solar facility. Based on the survey conducted by EnviroPlus Consulting, Inc., we conclude that the

development and operation of the Aratina Solar Project is not reasonably certain to cause the take of desert tortoises. Section 3 of the Endangered Species Act defines take as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. For this reason, the Service does not recommend that 8minute Solar Energy apply for an incidental take permit for the Aratina Solar Project. In the unlikely event that you encounter a desert tortoise on site, we recommend that you contact us immediately.

Again, I appreciate your coordination and look forward to working with you in the future. If you have any questions, please contact Ray Bransfield[1] of my staff at (805) 677-3398.

Sincerely,

BRIAN CROFT

Digitally signed by BRIAN CROFT
Date: 2020.10.09 13:19:18 -07'00'

Brian Croft
Acting Assistant Field Supervisor

cc:
Larry Zimmerman, USAF, Stephen E. Watts, USAF

[1] Ray Bransfield, U. S. Fish and Wildlife Service, ray_bransfield@fws.gov