

Appendix M
Phase I Environmental Site Assessment

APPENDIX M
PHASE I ENVIRONMENTAL SITE
ASSESSMENT

HECA Project Site
Kern County, California

Prepared for

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URS

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ACRONYMS

ACM	Asbestos-Containing Material
API	American Petroleum Institute
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
CalARP	California Accidental Release Prevention Program
CalEPA	California Environmental Protection Agency
CCR	California Code of Regulations
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CO ₂	carbon dioxide
CORRACTS	Corrective Action RCRA TSDFs
DOD	United States Department of Defense
DOE	United States Department of Energy
DOGGR	California Division of Oil, Gas, and Geothermal Resources
DTSC	California Department of Toxic Substances Control
EDR	Environmental Data Resources, Inc.
USEPA	United States Environmental Protection Agency
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FBI	United States Federal Bureau of Investigations
FEMA	Federal Emergency Management Agency
FINDS	Facility Index System
HECA	Hydrogen Energy California
HEI	Hydrogen Energy International LLC
KCEHSD	Kern County Environmental Health Services Department
HIST uST	Historical Underground Storage Tank
HSC	California Health and Safety Code
IGCC	Integrated Gasification Combined Cycle
LBP	lead-based paint
LUST	Leaking Underground Storage Tank
ND	Non-Detect
NFA	No Further Action
NFRAP	No Further Response Action Planned
NOVs	notice of violations
NPL	National Priorities List
PCB	Polychlorinated Biphenyl
pCi/L	picocurie per liter
PG&E	Pacific Gas and Electric Company
PM	particulate matter
PM ₁₀	particulate matter 10 microns in diameter or less
PO	Port Organics Products, LTD
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RMP	Risk Management Plan
SUP	special use permit

ACRONYMS

TSDf	Treatment, Storage, and Disposal Facility
TTLc	Total Threshold Limit Concentration
URS	URS Corporation
USGS	United States Geological Survey
USFWS	United States Fish and Wildlife Service
UST	Underground Storage Tank
UTS	Universal Treatment Standard

1.1 PURPOSE

The purpose of this Phase I Environmental Site Assessment (ESA) is to provide a professional opinion on the potential presence of current recognized environmental conditions (RECs) at the Hydrogen Energy California (HECA) Project Site. This Project Site is generally located west of Tupman Road and Station Road; southwest of the intersection of Adohr and Tupman Roads, in Kern County, California (the “Site or Subject Property”). The assessment includes possible impacts from known environmental conditions in the surrounding area. The term “recognized environmental condition,” as defined by American Society for Testing and Materials (ASTM) Designation E 1527-05, means:

“the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not recognized environmental conditions.”

This ESA was performed according to the recommended guidelines established by ASTM Designation E 1527-05, “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.” For the purpose of this report, hazardous substances and petroleum products are jointly referred to as “hazardous materials.”

1.2 DETAILED SCOPE-OF-SERVICES

URS Corporation (URS) was retained by Hydrogen Energy International LLC (HEI) to conduct this ESA for the Site. This Site consists of approximately 473 acres of largely agricultural land, with a small portion of the Site (approximately 0.8 acre) holding part of a natural fertilizer manufacturing plant. URS performed the following work:

1. Reviewed available geologic maps and literature for information on the physical and hydrogeologic settings of the Site.
2. Contracted with Environmental Data Resources, Inc. (EDR) to conduct a regulatory database search of known aboveground storage tanks (ASTs); underground storage tanks (USTs); landfills; hazardous waste generation or treatment, storage, and disposal facilities (TSDFs); and subsurface contamination in the surrounding area up to within 1 mile of the Site (see Appendix A). Additional search distance was incorporated to account for the large area of the Site. Based on ASTM Practice, the following search distances were used to assess potential environmental impacts:

- 1.5-mile radius for registered ASTs, USTs, Resource Conservation and Recovery Act (RCRA) waste generators, and mines.
 - 1.75-mile radius for leaking underground storage tanks (LUSTs), landfills, Non-Corrective Action RCRA TSDFs, and Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) sites.
 - 2.25-mile radius for Corrective Action RCRA TSDFs (CORRACTS), state sites with potential or confirmed hazardous substance releases, and United States Environmental Protection Agency (USEPA) Superfund sites.
3. Researched Site history by reviewing a chronology of aerial photographs, and a chronology of historic topographic maps for the Site and surrounding properties. Copies of these documents are presented in Appendix B.
 4. Performed a Site Reconnaissance of the Site and surrounding areas for potential evidence of RECs such as current hazardous materials storage or use; unusually stained soils, slabs, and pavements; drains, sumps, drums, tanks, and electrical transformers; stressed vegetation; and discarded hazardous materials containers. Photographs taken during Site reconnaissance are included in Appendix C of this report.
 5. Requests for information regarding the Site were made to the Kern County Environmental Health Services Department (KCEHSD) and the California Environmental Protection Agency (Cal-EPA). The results of these inquiries are provided in Section 5 of this report, Agency Contacts.
 6. Interviewed the current property owner, Mr. John Cauzza III, whose family currently owns the Site, and the Port Organics Products, LTD. (PO) owner/operator, Mr. Ken Nelson, Jr. for operational and historical information regarding the Site.
 7. Evaluated the information collected to prepare this report.
 8. Prepared this report.

1.3 LIMITATIONS AND EXCEPTIONS

This report and the associated work have been provided in accordance with the principles and practices generally employed by the local environmental consulting profession. This is in lieu of all warranties, expressed or implied.

This ESA is not a regulatory compliance audit or an evaluation of the efficiency of the use of any hazardous materials at the Site. No evaluation for the presence of asbestos-containing building materials, urea-formaldehyde foam insulation, or other hazardous building materials; methane; radon gas; lead in drinking water; wetlands; industrial hygiene and health and safety; ecological resources and endangered species; indoor air quality; or high-voltage power lines is included in this assessment.

These findings and opinions are based on information available from public sources on specific dates (historical photographs, maps, and regulatory agency files, lists, and databases). Although

this information is updated continually, it can be incomplete. Information obtained from interviews or provided to URS by HEI, Mr. Cauzza III, and Mr. Nelson, Jr. is assumed to be correct and complete. URS does not assume any liability for information obtained that has been misrepresented or for items not visible, accessible, or present on the Site at the time of the Site reconnaissance.

There is no investigation that is thorough enough to preclude the presence of materials on the Site that currently, or in the future, may be considered hazardous. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants present and considered to be acceptable may, in the future, become subject to different regulatory standards and require remediation. URS cannot warrant or guarantee that not finding indicators of hazardous materials means that hazardous materials do not exist on the Site.

Where records indicate that prior remedial work or tank removals has occurred, there is a risk that the work may not have been performed correctly or completely. In these cases, if the regulatory agency has approved the closure of the tank or other work done, we have assumed that the work was done correctly and completely.

Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions.

1.4 USER RELIANCE

This report has been prepared for the sole use of HEI. This report shall not be relied upon by any other party without written authorization from HEI and URS.

2.1 LOCATION AND PROPERTY DESCRIPTION

The Site is situated in the west-central portion of Kern County, in Section 10 of Township 30 South, Range 24 East. The Site is generally bounded by the Dairy Road right-of-way on the west, Adohr Road on the north, Tupman Road on the east, and an irrigation canal to the south; however, the Site does not take up the entire Section. The irrigation canal extends generally from the east to the west, from Tupman Road southeast of the Site, to approximately the center of the southern border. From that point, the irrigation canal briefly extends to the southwest before intersecting with the West Side and Outlet Canals.

The Site is not rectangular, due to the shape of the northwestern, southwestern, and southeastern corners of the Site. The northwestern corner of the Site is a reverse “L” shape. It begins approximately 0.3 mile east of the intersection of Adohr and Dairy Roads, and extends approximately 0.25 mile south until it intersects with a dirt farm road. The boundary then extends west approximately 0.3 mile until it reaches the right-of-way for Dairy Road (Dairy Road itself does not extend this far south).

The Project Site boundary in the southwestern corner is a diagonal line extending from the northwest to the southeast, beginning approximately 0.2 mile north of the Section corner and ending approximately 200 feet north of the irrigation canal.

The southern Site boundary continues east, stopping approximately 0.25 mile short of Tupman Road. It then extends north for approximately 0.5 mile, and then turns east for approximately 0.25 mile to intersect with Tupman Road, forming an inverted “L” shape.

The Project Site is located approximately 1.5 miles northwest of the town of Tupman, California; approximately 1 mile south of Stockdale Highway; and approximately 2 miles southwest of Interstate 5 (which extends generally from the southeast to northwest, east of the Site). A Site location map is provided as Figure 1.

The Site is approximately 473 acres in size. According to the current property owner, Mr. John Cauzza III, the Site was purchased in 1995 from Palm Farms, Inc., owned by Mr. Sam Ackerman. Most of the Site is agricultural land (Photograph 1), with a small portion (approximately 0.8 acre) that is part of a natural fertilizer manufacturing plant. The fertilizer plant extends north and west of the Site (Photograph 2).

An area adjacent to the Project Site in the northwestern corner of Section 10 contains farming operations (Photograph 3). A parcel of land approximately 2 acres in size within this northwestern corner, and approximately 375 feet north of the Site boundary, is currently privately owned and contains a home that is occupied by the parcel owner (the Ackerman family) (Photograph 4). Other properties surrounding the Site are agricultural lands, including north of Adohr Road (Photograph 5), east of Tupman Road (Photograph 6), and west of the Dairy Road right-of-way (extending from the north to the south) that form the southern portion of the western border of the Site (Photographs 7 and 8). The East Side Canal lies approximately 0.25 mile to the east of the northeastern corner of the Site at the intersection of Adohr and Tupman Roads, and extends generally from the north to the south parallel to the eastern border of the Site. The property located south of the Site includes the West Side and Outlet Canals, which generally extend from the southeast to northwest, followed by undeveloped land

containing arid vegetation (Photograph 9). The California Aqueduct (Photograph 10), extending generally from the southeast to northwest, is positioned parallel to and south of the West Side and Outlet Canals, lies to the south of the undeveloped land located south of the Site.

Tupman, California is located approximately 1.5 miles southeast of the Site (Photograph 11). Tupman covers approximately 0.5 square mile of land and has an estimated population of 230. The Tule Elk State Reserve is located approximately 0.25 mile east of the Site, east of Tupman Road. The reserve extends generally from the north to the south, with Station Road forming the northern boundary. The reserve's southern boundary is just east of the city of Tupman, California. Site diagrams are provided as Figures 2 and 3.

2.2 SITE CHARACTERISTICS

The Site is approximately 473 acres in size, with the majority of the Site currently existing as agricultural land (Photograph 1), and a small portion (approximately 0.8 acre) developed for a natural fertilizer manufacturing plant (Photograph 2). There are no buildings on the Site. According to Mr. Cauzza III, there are several water wells located in close proximity to the Site, some of which are currently active, and some of which have been closed and abandoned. See Section 6.3.3 for further discussion on the water wells.

2.3 CURRENT AND HISTORICAL USES OF THE SITE

According to historical aerial photographs and topographic maps, the Site has historically been and currently remains in agricultural use. According to Mr. Cauzza III, the Cauzza family (the current property owners), purchased the Site in 1995. Under the previous owners, Palm Farms, Inc., the Site was used for agricultural production. According to Mr. Cauzza III, the area developed with farming operations (including a grain processing area, farm storage buildings, and outdoor farm storage areas) located adjacent to the northwestern corner of the Site was established by Palm Farms, Inc., or a previous owner.

HEI is proposing an Integrated Gasification Combined Cycle (IGCC) project called Hydrogen Energy California (the "Project"). The facility will gasify 100 percent petroleum coke (or blends of petroleum coke and coal, as needed) to produce hydrogen to fuel a combustion turbine operating in combined-cycle mode. HEI is jointly owned by BP Alternative Energy North America Inc. and Rio Tinto Hydrogen Energy LLC. The Project will produce electricity while substantially reducing greenhouse gas emissions by capturing carbon dioxide (CO₂), and transporting it for enhanced oil recovery (EOR) and sequestration.

2.4 LOCAL GEOLOGY AND HYDROGEOLOGY

The Site elevation is approximately 288 feet above mean sea level. The Site is located within the San Joaquin Valley. The San Joaquin Valley is California's leading agricultural producing region, and five of its counties (Fresno, Kern, Tulare, Merced, and Stanislaus) rank among the state's top 10 counties in farm production value. Oil and gas is also an important industry in the San Joaquin region. About half of the largest oil fields within the San Joaquin region are found in Kern County, as is the Elk Hills Oil Field Unit, formerly known as Naval Petroleum Reserve No. 1. The Site is generally flat and the topographic gradient generally slopes to the west.

2.4.1 Geology

The San Joaquin Valley is bordered to the east by the Sierra Nevada Mountain Range or batholith. The Sierra Nevada batholith is composed of granitic rocks variously described as granite, quartz-monzonite, granodiorite, and quartz diorite. The Coastal Ranges border the San Joaquin Valley to the west. The Coastal Ranges were formed in the Late Pliocene age and major deformation of the ranges and adjacent parts of the San Joaquin Valley occurred. Surface anticlines such as Elk Hills, Kettleman Hills, and Wheeler Ridge quickly became major surface features rising from the valley floor. This deformation and uplift continues today, and is measured at places such as Buena Vista Hills.

The valley that formed between the Sierras to the east and the Coast Ranges to the west is an asymmetrical synclinal trough with an axis centered to the west. The elongate lowland known as the Great Valley is 400 miles long and 50 miles wide, and rises from slightly below sea level in the delta area to 400 feet elevation at the northern and southern ends. The southern portion is called the San Joaquin Valley. Bakersfield and Tupman are located on the southeastern end. Over 30,000 feet of sediments ranging in age from Cretaceous to recent have accumulated within the San Joaquin Basin. The basin was formed from compressive forces between the North American and Pacific continental plates. As the basin sank, sediments from the rising mountains to the east (ancestral Sierra Nevada) and lesser amounts from the west accumulated in a thick wedge in the valley. The valley was once a great inland sea basin that was inundated or flooded periodically. The last large lake to occupy the Valley was Lake Corcoran, about 600,000 years ago. The lake occupied approximately the western half of the Valley from the Stockton arch south to the bend in the San Joaquin River.

Kern County is located in the southern Central Valley and extends east beyond the southern slope of the Eastern Sierra Nevada range into the Mojave Desert, and includes parts of the Indian Wells Valley and the Antelope Valley. From the Sierras, the county extends across the floor of the San Joaquin Valley to the eastern edge of the Temblor Range, part of the Coastal Ranges. To the south, the county extends over the ridge of the Tehachapi Mountains.

The EDR report included soil data for two locations in the vicinity of the Site. Data for the first location indicated a soil component named Lokern with surficial deposits generally less than 7 inches deep. These soils are moderately well drained and have slow infiltration rates. There are two subsurface layers in this soil. The upper layer exists at a depth between 7 to 48 inches, and the lower (deeper) layer exists at a depth between 48 to 66 inches. Although no soil texture classes were reported by EDR for these soils, bedrock occurs at a depth greater than 66 inches below surface. The second location indicated a soil component named Buttonwillow, with surficial deposits generally less than 27 inches deep. These soils are moderately well drained and have slow infiltration rates. There are two subsurface layers in this soil. The upper layer exists at a depth between 27 to 55 inches, and the lower (deeper) layer exists at a depth between 55 to 64 inches. Although no soil texture classes were reported by EDR for these soils, bedrock occurs at a depth greater than 64 inches below surface.

2.4.2 Hydrology

Surface Water

Surface water exists near the Site in canals, and on the Site in two drainage ditches and several irrigation ditches. According to Mr. Cauzza III, water is not constantly present in the canal and drainage ditches, but would typically be present during periods of time when crops are being irrigated. An irrigation canal approximately 200 feet south of the Site extends generally from the east to the west from Tupman road southeast of the corner of the Site, paralleling the southern border to approximately the center of the Site. From that point the irrigation canal briefly extends to the southwest before intersecting with the West Side and Outlet Canals. The first drainage ditch is located in the north-central portion of the Site, and extends from the southeast to the northwest, ending approximately at the northwestern boundary of the Site. This drainage ditch is located immediately northeast of the portion of the PO natural fertilizer manufacturing plant that is on the Site. (Photograph 12). The second drainage ditch is oriented from north to south and extends directly south from the end of the first ditch (Photograph 13). The second drainage ditch divides the Site approximately in half from its northern point of origination to its intersection with the irrigation canal that parallels the southern Site border. Several smaller irrigation ditches traverse the Site from north to south and east to west around crop fields. The irrigation ditches are fed by the West Side Canal, approximately 0.2 mile south of the Site, and the East Side Canal, which lies approximately 0.25 mile east of the northeastern corner of the Site (at the intersection of Adohr and Tupman Roads).

The Site generally slopes to the west, towards the West Side and Outlet Canals and the California Aqueduct. From observation of the Site and input provided by Mr. Cauzza III, it appears that any surface-water runoff caused by storm precipitation events would flow to the west and drain into the West Side or Outlet Canals.

The nearest permanent surface water body to the Site is the California Aqueduct, which is approximately 0.5 mile south of the Site and extends generally from the southeast to northwest, parallel to and south of the West Side Canal.

Groundwater and Oil and Gas Wells

The EDR report listed eight United States Geological Survey (USGS) groundwater wells located within a 0.125- to 1-mile radius of the current south-central boundary of the Site. One of the USGS groundwater wells (Well ID USGS3175424) is located in approximately the northwestern quadrant of the Project Site. The EDR report also identified five water wells that were listed on the California state database within a 0.5- to 1-mile radius of the current south-central boundary of the Site. None of these wells are located on the Site.

The EDR report listed 11 California Division of Oil, Gas, and Geothermal Resources (DOGGR)-registered oil and gas wells within a 0.5- to 3-mile radius of the current south-central boundary of the Site. It appears that one of these wells (American Petroleum Institute [API] well number 02952932) is located near the approximate center of the Site. The next three closest wells to the Site are located off-Site approximately 0.6 mile south (API well number 02937474), 1 mile south-southeast (API well number 02929611), and 1.2 miles southwest (API well number 02903684) of the southern Site border, respectively. EDR reported that the well located on the Site (API well no. 02952932) was plugged and abandoned (dry hole), as of November 18, 1950.

The same status and abandonment dates were provided for the other three wells located off-Site (API well No. 02937474; No. 02929611; and No. 02903684). The remainder of the wells reported by EDR showed a status of plugged and abandoned (dry-hole), or plugged and abandoned oil or gas wells, as of November 18, 1950.

Wetlands

There are no wetlands located on the Site. According to EDR, the nearest national and state wetlands are located approximately 0.2 mile south of the southern boundary of the Site, generally extending from the southeast to the northwest, within and surrounding the West Side and Outlet Canals.

3.1 SITE AND ADJOINING PROPERTY HISTORICAL USE INFORMATION

3.1.1 Aerial Photographs

URS reviewed 29 aerial photographs available through EDR for Site and the surrounding areas. Photographs were dated from 1946 (4 photos), 1956 (4 photos), 1967 (4 photos), 1975 (4 photos), 1984 (4 photos), 1994 (4 photos), 2002 (4 photos), and 2005 (1 photo). Each of the aerial photographs depicts the Site as undeveloped and in use for agricultural production, primarily crop production. These aerial photographs are included in Appendix B. The following text describes features seen on each photograph.

- 1946** The majority of the Site is undeveloped and in use primarily for agricultural production, as are the surrounding areas. The developed farming operations are visible in the adjacent property northwest of the Site boundary and include several buildings. There appears to be a canal or irrigation ditch passing through the Site from the northwestern corner to the southern border. An irrigation canal is also shown passing from east to west, forming the southern border of the Site.
- 1956** The Site and surrounding areas remain relatively unchanged since the 1946 photograph, with the exception of off-Site development to the east and south. Canals are now evident at the southwestern corner of the Site.
- 1967** The Site and surrounding areas remain relatively unchanged since the 1956 photograph, with the exception of a new large canal, the California Aqueduct, which appears to be under construction, located south of the Site; and the canals or irrigation ditches that were seen in earlier photographs (1946 and 1956) are no longer shown passing through the Site.
- 1975** The Site and surrounding areas remain relatively unchanged since the 1967 photograph, with the exception of the completed California Aqueduct.
- 1984** The Site and surrounding areas remain relatively unchanged since the 1975 photograph, with the exception of a new canal (the Outlet Canal), extending from the southeast to northwest, southwest of the Site. In addition, the off-Site development to the east of the Site, as seen in the 1956 through 1975 photographs, is no longer apparent.
- 1994** The Site and surrounding areas remain relatively unchanged since the 1984 photograph.
- 2002** The Site and surrounding areas remain relatively unchanged since the 1994 photograph, with the exception of grain storage bins adjacent to the northwestern corner of the Site and the natural fertilizer manufacturing plant located directly east of the off-Site farming operations area.
- 2005** The 2005 photograph only shows the south-central portion of the Site. The Site and surrounding areas remain unchanged since the 2002 photograph.

3.1.2 Topographic Maps

URS reviewed the five historic topographic maps of the Site and surrounding properties obtained from EDR representing the years 1912, 1933, 1954, 1968, and 1973. The topographic maps reviewed are included in Appendix B. The features noted on each map are described below.

- 1912** The 1912 topographic map is difficult to read because it does not contain Section numbers. The map shows Elk Hills, the town of Buttonwillow, the West Side Canal, Buena Vista and Lake Sloughs, North and Coles Levees, The Wildwood School, the Southern Pacific Railroad (including the McKittrick Branch), and two Oil Pumping Stations. The North Levee appears to pass through the Site from the southwest to the northeast, and the Coles Levee extends from the west to the east at the southern border of the Site. The Buena Vista Slough also appears to form the western border of the Site, extending from the northwest to the southwest.
- 1933** The 1933 map shows only the land lying east of Site, including the East Side Canal, and the adjacent Mesquite Hunting Club east of the Site.
- 1954** The 1954 maps show the Site bordered by the irrigation canal on the southern border, the West Side and Outlet Canals to the southwest, and Tupman Road, extending from the north to south on the eastern border. The East Side Canal and the Mesquite Hunting Club are also shown lying east of Tupman Road. The 1954 maps also show Adohr and Dairy Roads, extending from the east to west and north to south, respectively. Adohr Road forms the northern border of the Site. The development of buildings and a landing field is now shown adjacent to the northwestern corner of the Site and within the northwestern corner of the Site, respectively. Wells are located north and north-northwest of the buildings. A main drain passes through the northwestern portion of the Site, oriented from the north to the south. The main drain connects with a levee (irrigation ditch) that forms the southern border of the Site (ending at Tupman Road). The 1954 map now shows Pump Wells at the southeastern corner of the adjacent Mesquite Hunting Club, east of the Site; the Tule Elk Reserve State Park south of the Mesquite Hunting Club, east of the Site; and most importantly, a pipeline appears at the northern border of the Site, originating at the intersection of Adohr and Tupman Roads, and extending to the east from the point of origination.
- 1968** The 1968 map is generally identical to the 1933 map, showing only the land lying east of the Site, including the East Side Canal and the adjacent Mesquite Hunting Club. The only notable difference between the 1933 and 1968 maps is that the Tule Elk Reserve State Park is now shown, as it was on the 1954 maps.
- 1973** The 1973 maps are generally identical to the 1954 maps and show no new notable features, with the exception of the California Aqueduct, which is located south of the Site (oriented from the southeast to the northwest).

3.1.3 Sanborn Fire Insurance Maps

EDR reported that there were no Sanborn Fire Insurance Maps available for the Site. Sanborn Fire Insurance Maps typically include information pertaining to fire risk and may provide details related to buildings and other structures located on a specified property, including year of

construction, building materials used (including the use of fire-resistant or fireproof materials or insulation), automated fire suppression systems, the location of the closest municipal or other fire hydrant(s), and the current or historical presence of USTs located on the Site. It is not uncommon for these maps to be unavailable for these reports, and it is not an indication of potential environmental risk if no maps are available for the Site.

3.1.4 City Directories

URS requested historic city directories for surrounding properties from EDR using their Haines Criss-Cross Directory for the years 1971 through 2006 (although these years are not necessarily inclusive). EDR reported that city directories were available for the following surrounding properties from the source:

- 2001: Residence at 7345 Adohr Road; Buttonwillow, CA 93206;
- 2001: Port Organic Products Inc. at 7361 Adohr Road; Buttonwillow, CA 93206;
- 2006: Residence at: 7345 Adohr Road; Buttonwillow, CA 93206; and
- 2006: Port Organic Products Inc. 7361 Adohr Road; Buttonwillow, CA 93206.

Although these properties are located in unincorporated Kern County, they have Buttonwillow addresses for mailing and directory purposes.

4.1 REGULATORY RECORDS

4.1.1 Regulatory Database Search Report

An EDR Radius Map Report was prepared for the Site on November 20, 2008, in accordance with ASTM recommended guidelines, and is included as Appendix A. At the time the EDR report was ordered, the proposed Project Site was larger than it is now, so the EDR database search covered a larger area than the current Site would necessitate. The former approximate center is now the center of the southern boundary of the Site. The EDR report presents the results of a search of federal and state databases, along with a description of each database, that list addresses of sites with known USTs; landfills; hazardous waste generation, or TSDFs; and subsurface contamination in the surrounding area within 2.25 miles of the center of the southern boundary of the Site. The 2.25-mile radius accounts for the large area of the Site, plus the ASTM-required off-site radius.

The goal of reviewing the database report is to identify facilities that have known and documented environmental conditions that may adversely impact the Site. URS uses the following guidelines to determine if a listed facility presents potential environmental concerns:

1. The facility is listed on one of the databases that report hazardous materials releases, such as the National Priorities List (NPL), Federal CORRACTS, Federal CERCLIS, and RCRA TSDF list; is potentially upgradient of or adjacent to the Site; and is not listed in the database as “closed” or “No Further Action” (NFA), including “No Further Response Action Planned” (NFRAP).
2. The facility is listed as a solid waste disposal landfill and located potentially adjacent to or upgradient of the Site (not including transfer stations).
3. The facility adjoins the Site and is listed as a RCRA large-quantity or small-quantity hazardous-waste generator, a CERCLIS NFRAP site, an Emergency Response Notification System (ERNS) site, or a UST/AST operator.

Table 4-1 summarizes the database information provided by EDR with respect to hazardous substances and wastes on or near the Site. Appendix A includes the complete regulatory database search report. As Table 4-1 indicates, no such sites or properties meeting the criteria above were found within a 1.25- to 2.25-mile radius of the Site in the respective databases searched by EDR.

Table 4-1
Federal Databases Searched by EDR

Type of Database	Description of Database/Effective Date	Search Radius	Number of Sites Identified
NPL	NPL of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the USEPA Superfund program. Effective date – 9/08	2.25 miles	0
CORRACTS	RCRA TSDF ordered to implement corrective actions. Effective date – 9/08	2.25 miles	0
CERCLIS	The CERCLIS database identifies hazardous waste sites that require investigation and possible remedial action to mitigate potential negative impacts on human health or the environment. Effective date – 7/08	1.75 miles	0
FINDS	The Facility Index System (FINDS) database contains both facility information and pointers to other sources that contain more detail. Effective date – 7/08	1.25 miles	0
RCRA TSDFs	Identifies RCRA TSDFs. Effective date – 9/08	1.75 miles	0
ERNS	USEPA's ERNS list contains reported spill records of oil and hazardous substances. Effective Date – 12/07	1.25 miles	0
RCRA Generators	RCRA regulated hazardous waste generator list; both Large- and Small-Quantity Generators are included in this list. Effective Date – 9/08	1.5 miles	0
MINES	Federal database containing all mine identification numbers issued for mines opened since 1971. Effective date – 8/08	1.5 miles	0
DOD	Federal database for Department of Defense Sites consisting of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres. Effective date – 12/05	2.25 miles	1

Table 4-2
State and Local Databases Searched by EDR

Type of Database	Description of Database/Effective Date	Search Radius	Number of Sites Identified
LUST	List of information pertaining to reported LUST investigations. Effective date – 7/08	1.75 miles	0
UST	State database of active USTs. Effective date – 7/08	1.5 miles	0
AST	State database of registered ASTs. Effective date – 11/07	1.5 miles	0
HIST Cal-Sites	Hazardous Substance Storage Container Database – Historical listing of UST sites. Effective date – 10/90	2.25 miles	0
CA BOND EXP. PLAN	Bond Expenditure Plan – Department of Health Services expenditure plan for appropriation of Hazardous Substance Cleanup Bond Act funds. Effective date – 01/89	2.25 miles	0
SCH	School Property Evaluation Program – proposed and existing school sites evaluated by Cal-EPA Department of Toxic Substances Control (DTSC) for possible hazardous materials contamination. Effective date – 8/08	1.5 miles	0
TOXIC PITS	Toxic Pits Cleanup Act Sites – identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. Effective date – 7/95	1.5 miles	0
SWF/LF	State inventory of solid waste disposal facilities or landfill sites, includes both active and inactive historical landfills. Effective date – 9/08	1.75 miles	0
WMUDS/S WAT	Waste Management Unit Database System – 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. Effective date – 4/00	1.75 miles	0
CA WDS	Waste Discharge System – addresses sites which have been issued waste discharge requirements. Effective date – 6/07	1.25 miles	0
CORTESE	Hazardous Waste & Substances Sites List – listed sites 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). Effective date – 4/01	1.75 miles	0
SWRCY	Recycler Database – listing of recycling facilities in California. Effective date – 7/08	1.75 miles	0
CA FID UST	Facility Inventory Database – contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Effective date – 10/94	1.5 miles	0

Table 4-2
State and Local Databases Searched by EDR

Type of Database	Description of Database/Effective Date	Search Radius	Number of Sites Identified
SLIC	Statewide SLIC Cases (Spills, Leaks, Investigations and Cleanup) – designed to protect and restore water quality from spills, leaks, and discharges. Effective date – 7/08	1.75 miles	0
HIST UST	Hazardous Substance Storage Container Database – historical listing of UST sites. Effective date – 10/90	1.5 miles	2
LIENS	Environmental Liens Listing – listing of property locations with environmental liens for California. Effective date – 8/08	1.25 miles	0
SWEEPS UST	Statewide Environmental Evaluation and Planning System – underground storage tank listing updated and maintained by a State Water Resources Control Board contractor in the early 1990's. The Effective date – 6/94	1.5 miles	0
CHMIRS	California Hazardous Material Incident Report System – information on reported hazardous material incidents (accidental releases or spills). Effective date – 12/07	1.25 miles	0
Notify 65	Proposition 65 Records – facility notifications about releases that could impact drinking water. Effective date – 10/93	2.25 miles	0
DEED	Deed Restriction Listing Site Mitigation and Brownfields Reuse Program – sites cleaned up under the program's oversight. Effective date – 9/08	1.75 miles	0
VCP	Voluntary Cleanup Program Properties – low threat level properties with confirmed or unconfirmed releases and requested that DTSC oversee investigation and/or cleanup activities. Effective date – 8/08	1.75 miles	0
DRY CLEANERS	Cleaner Facilities – drycleaner related facilities with USEPA ID numbers. Effective date – 9/08	1.5 miles	0
WIP	Well Investigation Program Case List – cases in the San Gabriel and San Fernando Valley area. Effective date – 2/08	1.5 miles	0
CDL	Clandestine Drug Labs – drug lab locations. Effective date – 9/08	1.25 miles	0
RESPONSE	State Response Sites – identifies confirmed release sites where DTSC is involved in remediation. Effective date – 8/08	2.25 miles	0

Table 4-2
State and Local Databases Searched by EDR

Type of Database	Description of Database/Effective Date	Search Radius	Number of Sites Identified
HAZNET	Facility and Manifest Data – data extracted from hazardous waste manifests received by the DTSC. Effective date – 12/06	1.25 miles	0
EMI	Emissions Inventory Data – toxics and criteria pollutant emissions data collected by the Air Review Board and local air pollution agencies. Effective date – 12/05	1.25 miles	2
HAULERS	Registered Waste Tire Haulers Listing – listing of registered waste tire haulers. Effective date – 9/08	1.25 miles	0
ENVIR-OSTOR	EnviroStor Database DTSC’s Site Mitigation and Brownfields Reuse Program – database that identifies sites that have known contamination or sites for which there may be reasons to investigate further. Effective date – 8/08	2.25 miles	0

Each database searched by EDR is referenced in Appendix A. The results of the records review are presented in the EDR report and are summarized below.

Project Site

The approximate center of the Site was identified on the databases searched by EDR as being located 1.25 miles southwest of Tupman Road and Station Road, Buttonwillow, California 93206 (Latitude: 35.326900° [35° 19’ 36.8”] North; Longitude: 119.386000° [119° 23’ 9.6”] West). Although the Site is located in unincorporated Kern County, Buttonwillow serves as its post office. Consequently, the EDR reports the Site as having a Buttonwillow address. At the time the EDR report was ordered, the proposed Project Site was larger than it is now, so the EDR database search covered a larger area than the current Site would necessitate. The former approximate center is now the center of the southern boundary of the Site.

A review of the Historical Underground Storage Tank Registered Database (HIST UST) list, as provided by EDR, and dated October 10, 1990, revealed one HIST UST site located at an equal or higher elevation and approximately 1 mile north-northeast of the center of the southern boundary of the Site. The EDR identified this site as Palm Farms, Inc., (with a non-specific address of Adohr Road), and the EDR map illustrated its location as being on Adohr Road, approximately midway between the center of the Site and the intersection with Tupman Road, although no precise location is provided in the text of the EDR. This estimated location would be on the Site. However, the historical aerial photographs in the EDR report did not show any development in that area, but they did show development on the portion of the land that is adjacent to the Site to the northwest and was also part of Palm Farms, Inc. From information provided in the EDR report, the Palm Farms, Inc. facility was listed as having five tanks, storing diesel fuel in two of the tanks and unleaded, regular, and premium (each in single tanks) for the purposes of farming.

A review of the toxics and criteria pollutant emissions data collected by the California Air Resources and local air pollution agencies (EMI list), as provided by EDR, and dated December 31, 2005, revealed two EMI sites located at a higher elevation and approximately 1 mile north-northeast of the center of the southern boundary of the Site. These sites were identified as Western Milling LLC, and Shanco Commodities Company Inc. Each site is listed at the street address 7361 Adohr Road. It should be noted that this street address has also been associated with the PO fertilizer plant and with Palm Farms, Inc. The EDR map illustrates the locations as being on Adohr Road approximately midway between the center of the Site and the intersection with Tupman Road north-northeast of the Site. This estimated location would be on the Site. As mentioned above, no development was apparent in this location from the historical aerial photographs, but development associated with farming operations and grain storage is visible on the portion of the land that was also part of Palm Farms, Inc. and PO, and is now adjacent to the Site to the northwest. From information provided in the EDR report, Western Milling LLC emitted 0.99 and 0.29 ton per year of particulate matter (PM) and particulate matter smaller than 10 microns in diameter or less (PM₁₀), respectively, in 2005. EDR also reported that Shanco Commodities Company Inc. emitted 8 and 2 tons per year of PM and PM₁₀, respectively in 2000, and 1 ton per year of PM in 2003. These air emissions of particulate matter are assumed to not have had an adverse environmental impact to the Site.

The Site was not listed in any of the other databases searched by EDR.

Surrounding Properties

A review of the Department of Defense (DOD) list, as provided to EDR, and dated December 31, 2005, revealed that one (former) DOD site (the Elk Hills Oil Field Unit) is located at a higher elevation, and is approximately 1.2 miles south of the Site.

The HIST UST list identifies Martin Snow Farm (address: Station Road), located approximately 0.25 mile east of the center of the Site, across Tupman Road. From information provided in the EDR report, the Martin Snow Farm facility was listed as having two tanks that were installed in 1970 and that are used to store diesel fuel and unleaded fuel for the purposes of farming.

Orphan Sites

Due to poor or inadequate address information, EDR is not always able to map all sites that have environmental concerns. These listed but unmapped properties are referred to as orphan sites. Although the orphan sites are not mapped, EDR searches the same databases they use for mapped sites, and provides relevant information if an orphan site is found on one of the databases. URS located the orphan sites listed in the EDR report and measured the distance from the properties to the Site. Based on this site reconnaissance, URS concluded that all 37 orphan sites identified by EDR were located outside the ASTM recommended survey radius in reference to the Site.

5.1 LOCAL GOVERNMENT/REGULATORY AGENCY REPRESENTATIVES

URS contacted the KCEHSD, Hazardous Materials Division, on January 27, 2009, concerning potential hazardous materials and hazardous waste activity at the Site. Portions of the PO facility are on the Site, and the remainder is adjacent to the Site. Mr. Dan Starkey, Hazardous Materials Specialist, stated that the PO facility was inspected in 2005, 2007, and most recently in 2009. URS requested that Mr. Starkey provide the reports and any other related documentation for these inspections via an email request on January 27, 2009. Mr. Starkey responded to the request and provided the requested materials via email attachments on February 5, 2009. The documents cited below are included with this report as Appendix D.

Records of an inspection conducted on April 12, 2005, were documented in a letter issued to the PO facility on April 19, 2005. This communication was provided by Mr. Starkey and indicated that the following notice of violations (NOVs) of the California Health and Safety Code (HSC) and Title 22 of the California Code of Regulations (CCR) were noted at the PO facility during the inspection. The facility was assessed a \$7,250 penalty in a Settlement Agreement issued by the KCEHSD on December 7, 2005.

- Although the facility handles hazardous materials in quantities exceeding applicable thresholds, PO had not prepared and filed a Hazardous Materials Business Plan with the KCEHSD, in accordance with HSC Chapter 6.95, Section 25503.5(a). The facility was required to complete and submit the required Hazardous Materials Business Plan within 14 days of receipt of the inspection report dated April 12, 2005.

KCEHSD provided URS with copies of several Hazardous Materials Business Plan documents that were prepared and submitted by PO (the earliest of which is dated April 16, 2005) to take corrective action on and close this NOV.

- Although the facility handles regulated substances in quantities exceeding applicable thresholds, PO had not prepared and filed a California Accidental Release Prevention Program (CalARP) Risk Management Plan (RMP) with the KCEHSD, in accordance with CCR Title 19, Section 2745.1. The facility was required to complete and submit a CalARP RMP registration form within 14 days of receipt of the inspection report dated April 12, 2005. In addition, the facility was required to prepare (using the RMP Submit format) and submit all required CalARP documents within 90 days of receipt of the NOV report, dated April 19, 2005.

KCEHSD provided URS with copies of an RMP that was prepared and submitted by PO. Although the document is dated March 21, 2007, a subsequent inspection, conducted on January 25, 2007 (see below) did not find the facility in violation of this requirement. From this information it is believed that PO did submit RMP information to take corrective action on and close this NOV, and the RMP documentation provided by KCEHSD represents the most up-to-date information prepared and submitted by PO (see the RMP-related request below).

- Although the facility handles hazardous materials, PO had not properly trained employees on how to handle these materials, in accordance with CCR Title 19, Division 4, Article 4, Section 2732. The facility was required to have one employee involved in management of

hazardous waste attend the California Compliance School training for hazardous waste generators within 6 months of receipt of the NOV report, dated April 19, 2005. In addition, completion certificates for the training were required to be provided to the KCEHSD by November 2005.

KCEHSD did not provide any documentation that action was taken by PO to close this NOV; however, a subsequent inspection, conducted on January 25, 2007 (see below) did not find the facility in violation of this requirement.

- A 6,000-gallon poly aqueous ammonia (20 percent) tank observed during the inspection was labeled as "Fire Water." Although the ammonia was a hazardous material, rather than a hazardous waste, KCEHSD cited PO with a violation of CCR Title 22, Section 66265.31, failure to operate a facility to minimize the possibility of the release of hazardous waste to the environment which could threaten human health. The facility was required to properly label all tanks and containers immediately.

KCEHSD did not provide any documentation that action was taken by PO to close this NOV; however, a subsequent inspection, conducted on January 25, 2007 (see below) did not find the facility in violation of this requirement.

Records of an inspection conducted at the PO facility on January 25, 2007 were provided to URS by Mr. Starkey. Although the inspection did not result in any NOVs, the inspector requested that the facility recalculate the quantity released and the release rate for the Worst Case and the Alternate Release Scenarios in the RMP Submittal. The report indicated that the correct data did not significantly alter the distance to endpoint. The report also indicated that Operating Procedures must be more detailed, outlining the specific valves and switches that are involved for each procedure under a Deficiencies/Violations section. It does not appear that the facility was assessed any penalties following the January 2007 inspection.

As noted above, the KCEHSD provided URS with copies of an RMP that was prepared and submitted by PO (dated March 21, 2007) to take corrective action on and address the documented issue.

Records of an inspection conducted on September 25, 2007 were documented in a letter issued to the PO facility on November 14, 2007. This communication was provided by Mr. Starkey and indicated that the following NOVs of the HSC were noted at the PO facility during the inspection. The facility was assessed a \$3,079.50 penalty in a Settlement Agreement issued by the KCEHSD on April 18, 2008.

- PO was operating a 10,000-gallon fiberglass UST, containing approximately 1,000 gallons of aqueous ammonia, without a permit from the KCEHSD, in violation of the California Health and Safety Code (HSC) Chapter 6.7, Section 25284(a)(1). The facility was required to immediately discontinue the operation of the 10,000-gallon aqueous ammonia UST and immediately submit a written work plan outlining the procedures for removal of the UST system.

KCEHSD provided URS with copies of correspondence that was submitted by PO (dated December 23, 2007) indicating the procedure that was followed to remove the 10,000-gallon UST. URS contacted Ms. Barbara Houghton, Geologist with the KCEHSD, and asked if the document submitted by PO was considered adequate to confirm proper removal and closure

of the tank. Ms. Houghton indicated that the KCEHSD was not present during tank removal activities. Ms. Houghton further stated that although no correspondence was issued by the KCEHSD to PO stating that the tank was properly closed, based on the documentation submitted by PO, it appeared that the tank was removed in a manner meeting the intent of Kern County's tank removal ordinance.

- Although the facility was storing and handling Alcalase, waste oil, hydraulic oil, oxygen, acetylene, and diesel fuel, these materials were not listed on the chemical inventory of their Hazardous Materials Business Plan, in accordance with HSC Chapter 6.95, Section 25503.5(a). The facility was required to update the Hazardous Materials Business Plan chemical inventory to include all chemicals stored and handled onsite above threshold quantities within 30 days of the inspection.

KCEHSD provided URS with copies of a Hazardous Materials Business Plan update that were prepared and submitted by PO (dated February 6, 2008) to take corrective action on and close this NOV.

- PO intentionally relocated the 10,000-gallon AST formerly used to store aqueous ammonia aboveground to an underground location at the facility. By performing this act, PO potentially endangered emergency response personnel by failing to supply sufficient information concerning where the aqueous ammonia was being stored at the site, in violation of HSC Section 25509(a)(5). The facility was required to provide an accurate site map that provides sufficient information as to where PO stores and/or handles hazardous materials at the facility within 30 days of the inspection.

KCEHSD provided URS with a copy of an updated site map that was prepared and submitted by PO (dated January 14, 2008) to take corrective action on and close this NOV.

- The KCEHSD report also noted that a wastewater drain pipe in another area of the property emptied into a nearby irrigation canal used by farmers (see Section 6.3.4, below); however, this circumstance was not documented as a violation.

The United States Federal Bureau of Investigations (FBI) also conducted a raid of the facility in January 2009. An article published in the Bakersfield Californian indicated that FBI agents and local hazardous material crews (KCEHSD) searched the PO fertilizer manufacturing facility on Thursday, January 22, 2009. The article indicated that authorities would not disclose the reason for the search; however, KGET Channel 17 reported that agents involved wore protective suits and breathing masks to remove items from a building. Boxes were also taken from an office. URS contacted the KCEHSD and confirmed that they were involved in the raid of the facility conducted by the FBI. Mr. Starkey represented the KCEHSD during the raid. URS requested that Mr. Starkey provide the inspection report (and any other related documentation) for the inspection that the KCEHSD conducted on January 22, 2009 with the FBI. However, Mr. Starkey indicated that no documentation of the inspection was made by the KCEHSD. Mr. Starkey indicated that the FBI asked the KCEHSD to escort them during the visit due to their previous knowledge of the PO facility and that the FBI was pursuing fraud charges against PO. He was not aware of any documentation resulting from the inspection that was available from the FBI.

URS contacted Cal-EPA on January 29, 2009 and requested information regarding environmental concerns for the Site. Mr. Alex Baillie, Hazardous Substance Scientist with the DTSC's Statewide Compliance and Oversight Enforcement Branch, stated that the DTSC does not inspect properties unless a facility has an identification number, a facility name, or a physical address; or an incident occurs on a property, such as hazardous material or oil spills. Mr. Baillie indicated that he had never visited and was unfamiliar with the Site, and believes that the Site (including the PO facility) does not have an identification number. He was also unaware of any hazardous material or oil spills reported by the Site.

URS searched the Cal-EPA GeoTracker database on January 26, 2009 for registered LUSTs on the Site. There were no records found for the Site when searched by county (Kern), town (Buttonwillow), zip code (93206), or using the names/phrases "Cauzza," "Port Organics Products, LTD," or "Palm Farms, Inc."

6.1 METHODOLOGY AND LIMITING CONDITIONS

URS performed a site reconnaissance at the Site on January 13 and 14, 2009. Mr. John Cauzza III, whose family currently owns the Site, accompanied URS for the portion of the Site involving farming operations. Mr. Ken Nelson, Jr., the PO owner/operator, accompanied URS for the natural fertilizer manufacturing plant portion of the Site Reconnaissance. URS conducted the reconnaissance by visually observing the Site and surrounding areas. The Site was observed by walking the perimeter and internal areas. Appendix C includes photographs taken during the site reconnaissance.

6.2 GENERAL SITE SETTING

This ESA addresses the Site located within Section 10 of Township 30 South, Range 24 East, in unincorporated Kern County, California. The Site is currently owned by the family of Mr. John Cauzza III, and is being proposed for purchase by HEI for siting of the HECA.

The elevation of the Site is approximately 288 feet above mean sea level. The Site occupies an area of approximately 473 acres. The Site consists of agricultural land with a small portion of the Site (total area of approximately 0.8 acre) developed as part of the PO natural fertilizer manufacturing plant. An area offsite and adjacent to the northwestern corner of the Site contains farming operations and a parcel of land (approximately 2 acres) that is currently privately owned and contains a home that is occupied by the parcel owner (see Figures 2 and 3). The home is currently occupied by the owner (the Ackerman family), and the parcel on which the home is located is not part of the Site.

Farming operations and the PO fertilizer manufacturing plant are located offsite and adjacent to the northwestern corner of the Site, and comprise a combined total of approximately 28 acres. Although the PO plant comprises a total of approximately 3.7 acres, located directly east of the farming operations, only approximately 0.8 acre of the eastern side of the facility is located within the Site boundary. The remaining western portion of the PO facility is located offsite. The area used for the natural fertilizer manufacturing plant is leased to PO. Aerial photographs of the Site and the surrounding area have been included as Figures 2 and 3.

The properties located offsite and surrounding the Site include agricultural land to the north of Adohr Road (Photograph 5); to the east of Tupman Road (Photograph 6); and to the west, west of the dirt farm road (the Dairy Road right-of-way extending from the north to the south) that form the southern portion of the western border of the Site (Photographs 7 and 8). An operating ranch and ranch house are located offsite approximately 0.75 mile southeast of the Site's southeastern corner, across Tupman Road (Photograph 14). The East Side Canal is located offsite approximately 0.25 mile east of the northeastern corner of the Site (at the intersection of Adohr and Tupman Roads) and extends generally from the north to the south parallel to the eastern border of the Site. The property located south of the Site includes the West Side and Outlet Canals, located approximately 0.2 mile south of the Site and generally extending from the southeast to northwest, followed by undeveloped land containing arid vegetation (Photograph 9). The California Aqueduct (Photograph 10), located approximately 0.5 mile south of the Site, extends generally from the southeast to northwest and is positioned parallel to and south of the

West Side and Outlet Canals. The Tule Elk State Reserve is located offsite approximately 0.25 mile east of the Site, east of the Tupman Road. The reserve extends generally from the north to the south, with Station Road forming the northern boundary. The reserve's southern boundary is just east of the town of Tupman, California. Site diagrams showing the locations of several of these features are provided as Figures 2 and 3.

6.3 INTERIOR AND EXTERIOR OBSERVATIONS

6.3.1 Structures, Grounds, and Site Access

There are no buildings on the Site, including on the portion of the PO fertilizer plant that is part of the Site.

The off-Site portion of the PO fertilizer plant adjacent to the Site includes a raw materials storage building, an office trailer, two office sheds, and a maintenance area. The raw materials storage building (Photograph 15) is a long, wooden-frame building with a metal roof and siding. The office trailer (Photograph 16) is a prefabricated building, as are the two office sheds (Photograph 17). The maintenance area (Photograph 18) includes a small, covered outdoor area and two truck-trailer bodies that are used for storage and maintenance activities.

Access to the Site (including the natural fertilizer manufacturing plant area) can be made via Dairy, Adohr, Station, and Tupman Roads. Numerous dirt roads are established on the Site, traversing and bordering the agricultural areas.

6.3.2 Water, Utilities, Pipelines

Pacific Gas and Electric (PG&E) provides electricity to all areas of the Site.

No public water or sewer is provided to the Site. According to Mr. Cauzza III, irrigation water is provided by the Buena Vista Water Storage District. Several wells are located adjacent and in close proximity to the Site and are used for irrigation and some potable needs. A domestic water well is located offsite adjacent to the northwestern corner of the Site. This well includes a pressurized water tank, and water is distributed from the tank for fire protection purposes, as well as to an inhabited house trailer, the farm operation, and the natural fertilizer production facilities. The owner/operator of the PO facility, Mr. Ken Nelson, Jr., indicated that PO employees do not use water from the domestic well for drinking water, and instead use bottled water.

A portable toilet (Port-o-Let) is present at the off-Site portion of the PO facility (Photograph 17), and all sanitary wastes associated with the unit are hauled offsite for treatment and disposal.

Although a pipeline was shown at the northern border of the Site on the 1954 topographic map (originating at the intersection of Adohr and Tupman Roads, and extending to the east from the point of origination), no evidence of this pipeline (equipment or signage) was observed during the Site visit.

6.3.3 Wells

Several wells are located in close proximity and adjacent to the Site and are used for irrigation. A domestic water well is also located south of the prefabricated house trailer northwest of the Site.

According to the EDR report, there is one on-Site USGS groundwater well (Well ID USGS3175424) located approximately in the northwestern quadrant of the Project Site, and an additional seven wells located within 1 mile of the Site boundary. EDR also reported five State of California wells located within a 1-mile radius of the Site boundary, but none of these are located on the Site.

The EDR report listed 11 California DOGGR-registered oil and gas wells located within a 0.5- to 3-mile radius of the current south-central boundary of the Site. It appears that one of these wells (API well number 02952932) is located near the approximate center of the Site. The next three closest wells to the Site are located off-Site approximately 0.6 mile south (API well number 02937474), 1 mile south-southeast (API well number 02929611), and 1.2 miles southwest (API well number 02903684) of the southern Site border, respectively. EDR reported that the well located on the Site (API well no. 02952932) was plugged and abandoned (dry hole) as of November 18, 1950. The same status and abandonment dates were provided for the other three wells located off-Site (API well Nos. 02937474; 02929611; and 02903684). The remainder of the wells reported by EDR showed a status of plugged and abandoned (dry-hole), or plugged and abandoned oil or gas wells, as of November 18, 1950.

6.3.4 Wastewater Discharge

No public sewer is provided to the Site. A portable toilet (Port-o-Let) is present on the off-Site portion of the PO facility (Photograph 17) and all sanitary wastes associated with the unit are hauled offsite for treatment and disposal.

The off-Site portion of the PO facility manufacturing area and tank farm are contained within a curbed concrete apron (Photograph 19). The concrete containment apron is equipped with four below-grade sumps. The sumps collect liquids from within the concrete containment apron. The east sump (Photograph 20) receives liquids collected in the other three sumps via gravity flow. The east sump then discharges approximately 500 to 750 gallons per day of liquids on a continuous basis to a drainage ditch located on the Site east of the PO facility through an underground 2-inch flex line (Photograph 21). According to Mr. Nelson, Jr., the drainage ditch receives excess water from irrigation operations and the contents of the drainage ditch are occasionally pumped back through the irrigation systems to the agricultural fields. The discharge from the PO facility is included in the liquids when they are pumped back to and deposited on the agricultural fields of the Site. Mr. Nelson indicated that no permits were applied for or exist for the discharge from the east sump to the Site drainage ditch from the PO facility. Mr. Nelson indicated, however, that representatives from KCEHSD had requested that a special use permit (SUP) be applied for and obtained by PO, and that the SUP application contain details related to the wastewater discharge. Mr. Nelson indicated that PO had initiated activities to file a SUP application; however, these activities were terminated. According to Mr. Nelson, PO's lease terminates on January 31, 2009 and he is currently making efforts to use his remaining raw materials inventory and begin removing the equipment associated with

manufacturing operations from the Site. Although no sampling of the discharge has been conducted, several tanks containing hazardous materials are stored within the off-Site portion of the PO facility manufacturing area and tank farm containment apron. These materials include sulfuric acid, phosphoric acid, and potassium hydroxide. In addition, Mr. Starkey, indicated that heavy metals possibly could be present in the wastewater discharged to the drainage ditch and/or in sediments that have accumulated in the drainage pond as a result of the discharge. Mr. Starkey noted that PO uses zinc and other metals as micronutrient additives to their process and products.

6.3.5 Storm Water Drainage/Discharge

No storm water permits are held by PO for the fertilizer manufacturing facility or by the Cauzza family for the farm operations.

The Site generally slopes to the west, toward the West Side Canal. From observation of the Site, it does not appear that storm water is generated in concentrated flows, and no evidence of erosion or excess soil loss was observed.

6.3.6 Drains and Sumps

The PO facility manufacturing area and tank farm are contained within a curbed concrete apron (Photograph 19) adjacent to the Site. The concrete containment apron is equipped with four below-grade sumps that collect liquids contained within the apron. The east sump (Photograph 20) receives liquids collected in the other three sumps via gravity flow, and subsequently discharges 500 to 750 gallons per day of liquids on a continuous basis to an on-Site drainage ditch, located east of the PO facility, through an underground 2-inch flex line (Photograph 21). The PO facility also has an unloading station (Photograph 22) for solubles (concentrated fish liquids) that are sometimes used in the process of manufacturing the natural fertilizer. The solubles unloaded from tank trucks are pumped through an underground line to a storage tank located in the PO's off-Site manufacturing and tank farm area.

6.3.7 Solid Waste Disposal

There are no designated waste storage areas established in the portion of the Site used for agricultural production. According to Mr. Cauzza III, wastes generated by crop planting and harvesting activities are removed from the areas upon generation and are disposed of appropriately. However, broken concrete and debris waste was observed approximately 0.25 mile southeast of the portion of the Site that is used for agricultural production, on the west side of Tupman Road (Photograph 23).

Wastes generated at the PO natural fertilizer manufacturing operations facility are placed in off-Site solid waste containers (Photographs 16 and 22). The solid waste containers are picked up by a contractor and deposited in an off-Site landfill. Scrap metal is accumulated in an off-Site roll-off container (Photograph 24) and sent offsite for recycling. Solid wastes were also observed in several locations in and around the off-Site portion of the PO facility. These areas include: empty out-of-service metal and fiberglass tanks, plastic shipping totes, and pallets

(Photograph 25) located near the eastern fence line of the PO facility; and metal boxes (Photograph 24) located on the southern fence line of the PO facility.

In addition to the solid waste discussed above, the off-Site portion of the natural fertilizer manufacturing process includes a shaker screening process (Photograph 26) that generates tailings. The tailings are a byproduct of the process consisting of fishmeal and bird guano remnants (raw materials used in the manufacturing process). The shaker screening equipment is located adjacent to the Site. The tailings are stockpiled outdoors in an open and uncontained area on the Site (Photograph 27).

According to Mr. Nelson, the tailings are sold to local farmers and are used as a soil amendment. Mr. Nelson also indicated that, as part of the SUP application process, KCEHSD requested that soil samples be taken and analyzed from the tailings stockpile area, as well as surrounding agricultural crop fields, to provide a baseline benchmark. Although the requested sampling and analysis were initiated and some analytical results were generated, the process was not finalized. According to Mr. Nelson, PO's lease terminated on January 31, 2009. Mr. Starkey indicated that his review of the analysis of soil samples taken from the tailings stockpile area and surrounding crop fields revealed that the analysis for the soil samples taken in the vicinity of the tailings stockpile did not differ significantly from the baseline benchmark samples taken from surrounding agricultural crop fields. URS requested that Mr. Starkey provide copies of the soil sample analysis via email communication on February 5, 2009, and the requested analytical report was provided via email attachment on the same day. The soil sample analysis is included with this report as Appendix E. Four samples were taken and analyzed from the on-Site tailings pile area. The following table provides a summary of the sample results.

Table 6-1
PO Tailings Pile Sample Results⁽¹⁾

Constituent	Carcinogen (ca)/ Non-carcinogen (nc) by Ingestion	DTSC Screening Level (mg/kg) ⁽³⁾	USEPA Screening Level (mg/kg) ⁽⁴⁾	Regional (San Joaquin) Background Surficial Concs (mg/kg) ⁽⁵⁾	Concentrations (mg/kg)					Max Conc > DTSC	Max Conc > USEPA?	Max Conc > Background?
					Soil Sample North	Soil Sample South	Soil Sample East	Soil Sample West	Max Conc			
Antimony	nc	380	410	< 1	ND	ND	ND	ND	ND	No	No	No
Arsenic	ca	0.24	1.6	2.2 – 14	1.1	2.2	2.7	ND	2.7	Yes	Yes	No
Barium	nc	63,000	190,000	700 – 1,200	14	53	51	29	53	No	No	No
Beryllium	nc	1,700	2,000	0.85 - 1	ND	ND	ND	ND	ND	No	No	No
Cadmium	nc	7.5	810	3.5	ND	1.3	2.7	ND	2.7	No	No	No
Chromium	nc	100,000 ⁽⁶⁾	1,400	20 – 140	10	16	20	6	20	No	No	No
Cobalt	nc	3,200	300	6.1 - 18	ND	2.9	3	ND	3	No	No	No
Copper	nc	38,000	41,000	8.1 – 240	32	24	30	18	32	No	No	No
Lead	nc	3,500	800	15 – 61	ND	5.7	7.9	ND	7.9	No	No	No
Mercury	nc	180	28	0.02 – 0.082	ND	ND	ND	ND	ND	No	No	No
Molybdenum	nc	4,800	5,100	0.59	ND	ND	ND	ND	ND	No	No	No
Nickel	nc	16,000	20,000	8.7 – 65	3.8	9.9	11	3.7	11	No	No	No
Selenium	nc	4,800	5,100	< 0.1 – 0.16	1.7	0.65	0.53	2.1	2.1	No	No	Yes
Silver	nc	4,800	5,100	Not Reported	ND	ND	ND	ND	ND	No	No	No
Thallium	nc	63	66	Not Reported	ND	ND	ND	ND	ND	No	No	No
Vanadium	nc	6,700	7,200	75 – 180	14	32	38	4.6	38	No	No	No
Zinc	nc	100,000	310,000	48 - 120	96	170	160	120	170	No	No	Yes
pH ⁽²⁾	nc	NA	NA	NA	6.74	6.69	6.78	4.96	6.78	NA	NA	NA

Table Notes:

- 1 URS obtained the analytical results for the tailings pile samples from the KCEHSD (see Appendix E), but has not independently verified the data and makes no claims as to their accuracy.
- 2 pH is expressed in standard pH units.
- 3 Human-exposure-based Commercial/Industrial Scenario Soil-Screening Number, from Cal-EPA, January 2005.
- 4 Human-exposure-based USEPA Industrial Soil Screening Level.
- 5 Single values for the regional concentrations represent the arithmetic mean of concentrations throughout the State of California. Value ranges represent the range of the arithmetic means of concentrations for the San Joaquin Valley (Dragun and Chekiri, 2005).
- 6 The Cal-EPA screening level presented for chromium is that for chromium III (trivalent chromium). The Cal-EPA Commercial/Industrial screening level for Chromium VI (hexavalent chromium) is 37 mg/kg. Each measured concentration was below the chromium VI screening level. The USEPA screening level presented is for a 1-to-6 ration of chromium VI to chromium III.

Although Mr. Starkey indicated that his review of the analytical data of soil samples taken from the tailings stockpile area and surrounding crop fields revealed that the concentrations in the soil samples taken in the vicinity of the tailings stockpile did not differ significantly from the baseline benchmark samples taken from surrounding agricultural crop fields, he was unable to distinguish which samples listed in Table 6-1 were taken at the tailings pile and which were taken as background/baseline.

The maximum arsenic concentration exceeds both the California and the federal screening levels, yet is within regional background levels. Each of the selenium concentrations and three of the four zinc concentrations exceed regional background levels but are well below the screening levels.

6.3.8 Process Equipment

No process equipment is present on the portion of the Site that is used for agricultural production, nor on the portion of the PO natural fertilizer manufacturing plant that is on the Site.

The adjacent portion of the PO plant includes various processing equipment, including a propane-fired hot water heater, pumps, shaker screens, and tanks used for raw materials storage, product reaction vessels, and intermediate and final product storage.

6.3.9 Underground Storage Tanks

As previously described in Section 4.1.1 (Regulatory Database Search Report, Project Site), the EDR map indicates the presence of one historical UST site (consisting of five fuel tanks) on the northern boundary of the Site on Adohr Road, approximately midway between the center of the Site and the intersection with Tupman Road to the east. The text of the EDR report provides a non-specific address of "Adohr Road" and lists the owner as Palm Farms, Inc.

However, Mr. Cauzza III reported that he was not aware of any USTs being historically located at the Site. The Site and the land that is adjacent to the Site's northwestern boundary were previously owned by Palm Farms, Inc. As discussed in Section 4.1.1, the historical aerial photographs do not indicate development near the northeastern boundary of the Site, but they do show development on the portion of the former Palm Farms, Inc. land that is adjacent to the Site to the northwest. Consequently, it is likely that the historical USTs are adjacent to the Site, rather than on the Site.

During the Site visit, a pipe that may be a UST fill or vent pipe (Photograph 28) was observed within the farm operations area, located approximately 0.1 mile west and approximately 200 feet north of the reverse "L" boundary of the Site. The pipe was observed south of the large grain bins. It could not be determined during the Site visit, interviews, and review of regulatory databases whether this pipe was associated with a UST, and if a UST was present, whether it would be on the adjacent PO property or on the Site itself.

As noted in Section 5, the PO facility was fined in 2007 by the KCEHSD for not reporting chemicals stored onsite. This included aqueous ammonia that was stored in an unpermitted 10,000-gallon UST. Mr. Starkey indicated that the unpermitted 10,000-gallon aqueous ammonia UST was removed from the ground sometime after the 2007 inspection. This UST was not mentioned by Mr. Nelson, Jr.;

therefore, URS did not observe the area in which the UST was formerly installed. URS did, however, request UST removal and closure documents from the KCEHSD. Mr. Starkey provided correspondence that was submitted to the KCEHSD by PO on December 23, 2007 (see Appendix D). The correspondence indicates the procedure that was followed to remove the 10,000-gallon UST. URS contacted Ms. Houghton, and asked if the document submitted by PO was considered adequate by the KCEHSD to confirm proper removal and closure of the tank. Ms. Houghton indicated that the KCEHSD was not present during tank removal activities. Ms. Houghton further stated that although no correspondence was issued by the KCEHSD to PO stating that the tank was properly closed, based on the documentation submitted by PO, it appeared that the tank was removed in a manner meeting the intent of Kern County’s tank removal ordinance.

6.3.10 Aboveground Storage Tanks

No ASTs are located on the Site, but several are located adjacent to the northwestern Site boundaries in the agricultural production, farm operations, and natural fertilizer manufacturing operation areas.

The following table lists the ASTs located near (but not on) the Site. They are used for the agricultural, farm operation, and fertilizer manufacturing activities, but are not located within the Site boundaries. The following table provides details related to the ASTs.

Tank Number: Name	Size (gallons)	Material Stored	Tank Material	Location
Tanks 1: Large Vertical Permanent Steel Diesel Tank ⁽¹⁾	Approximately 750	Diesel Fuel	Welded Steel/ Steel Drum	Agricultural production area: located approximately 150 feet south of the southern-central boundary of the Site (Photograph 29)
Tank 2: 55-gallon Steel Lube Oil Drum Mounted on an Irrigation Pump ⁽¹⁾	55	Lube Oil	Welded Steel/ Steel Drum	Agricultural production area: located approximately 150 feet south of the southern-central boundary of the Site (Photograph 29)
Tank 3: Vertical Plastic Sulfuric Acid Tank ⁽²⁾	Approximately 5,600	Sulfuric Acid	Plastic	Within the PO natural fertilizer facility adjacent to the northwest boundary of the Site (Photograph 30)
Tank 4: Vertical Plastic Phosphoric Acid Tank ⁽²⁾	Approximately 2,100	Phosphoric Acid	Plastic	Within the PO natural fertilizer facility adjacent to the northwest boundary of the Site (Photograph 31)
Tank 5: Vertical Plastic Potassium Hydroxide Tank ⁽²⁾	Approximately 1,800	Potassium Hydroxide	Plastic	Within the PO natural fertilizer facility adjacent to the northwest boundary of the Site (Photograph 32)
Tank 6: Elevated Steel Gasoline Tank ⁽³⁾	Approximately 260	Gasoline	Welded Steel	Within the PO natural fertilizer facility adjacent to the northwest boundary of the Site (Photograph 33)
Tank 7: Elevated Diesel Tank ⁽³⁾	Approximately 110	Diesel Fuel	Welded Steel	Within the PO natural fertilizer facility adjacent to the northwest boundary of the Site (Photograph 33)

Notes:

1. No secondary containment was provided for any of the ASTs located in the agricultural production area adjacent to the Site.
2. Several tanks at the off-Site portion of the PO facility are contained within the curbed concrete apron; however, the apron discharges directly through the east sump via the 2-inch underground flex line (Photograph 21) to the on-Site drainage ditch located east of the PO facility.
3. No secondary containment is provided for the 260-gallon gasoline and 110-gallon diesel tanks at the off-Site portion of the PO facility.

6.3.11 Other Hazardous Materials/Waste Storage

Two propane tanks are located at the off-Site portion of the PO natural fertilizer facility. One of these tanks is located west of the propane-fired hot-water heater (Photograph 34), and the other is located outdoors at the southwestern corner of the raw materials storage building trailer (Photograph 15).

6.3.12 Pits, Ponds, and Lagoons

There are no pits, ponds, or lagoons located on the Site.

6.3.13 Stained/Discolored Soil or Pavement

Stained soils were observed off site approximately 150 feet south of the southern-central Site boundary during the Site visit. Soil stains were observed near and around the bases of the large (approximately 750-gallon) vertical permanent steel diesel tank (Photograph 35) and the irrigation pump (Photograph 36).

6.3.14 Evidence of Fill or Illegal Dumping

Evidence of unauthorized or illegal dumping was not observed on the Site during the Site visit. Mr. Cauzza III was not aware of any fill that had been brought onsite in the past.

6.3.15 Transformers/Polychlorinated Biphenyls

Numerous transformers were observed onsite. All transformers were pole-mounted and appeared to be in good condition. Mr. Cauzza III indicated that he did not own any of the transformers and that they all had been recently installed. Mr. Cauzza III noted that PG&E, who supply electricity to the Site, own all transformers. No other potential PCB-containing items were observed on the Site.

6.3.16 Air Emissions

Air emission sources include farm tractors and other mobile farm equipment, diesel-powered irrigation pumps, and the propane-fired hot-water heater located at the off-Site portion of the PO facility (Photograph 37). No permits exist for this equipment.

6.3.17 Asbestos-Containing Materials

Mr. Cauzza III was not aware of any asbestos-containing material (ACM) on the Site. ACM surveys have not been conducted at the Site.

6.3.18 Lead-Based Paint

Mr. Cauzza III was not aware of any lead-based paint (LBP) on the Site. LBP surveys have not been conducted at the Site.

6.3.19 Radon

There are no federal or state standards regulating radon exposure; however, the USEPA recommends a maximum exposure level of 4.0 picocuries per liter (pCi/L). Mr. Cauzza III was not aware of any radon testing conducted at the Site. The Site is located in Kern County in USEPA Radon Zone 2. Properties located in USEPA Radon Zone 2 have a moderate potential for radon concentrations greater than 2 but less than 4 pCi/L.

The Site consists of a portion of the land bounded by Dairy Road, Adohr Road, Tupman Road, an irrigation canal, and West Side Canal in Kern County, California. The Site is located within Section 10 of Township 30 South and Range 24 East. The PO natural fertilizer manufacturing facility (a portion of which is located on Site) is currently used for industrial purposes. The land is proposed to be used for the development of HECA.

Based on URS's review, URS identified the following findings in connection with this Site.

- As detailed in Section 4, the EDR reported HIST USTs located at Palm Farms, Inc., including two diesel fuel tanks, an unleaded gasoline tank, a regular gasoline tank, and a premium gasoline tank. The address reported in the EDR report for Palm Farms, Inc. is non-specific ("Adohr Road") and the EDR map illustrates the location as the northern boundary of the Site, approximately midway between the center of the Site and the intersection with Tupman Road to the east. There are indications that the actual location may be on the portion of the former Palm Farms, Inc. land that is offsite and adjacent to the northwest (i.e., the current Site owner stating he was unaware of any historical USTs on the Site and the lack of development visible in the historical aerial photographs at the location presented in the EDR map). These USTs have been identified as RECs because they may be on the Site or they may be adjacent to and upgradient of the Site.
- Although Mr. Cauzza III reported that he was not aware of any USTs being historically located at the Site, a pipe that may be a UST fill or vent pipe (Photograph 28) was observed approximately 0.1 mile west and approximately 200 feet north of the reverse "L" boundary of the Site, south of the large grain bins. This has been identified as a REC due to the pipe being nearby and upgradient of the Site.
- The east sump on the off-Site portion of the PO facility discharges approximately 500 to 750 gallons per day of liquids on a continuous basis to the on-Site drainage ditch, located east of the PO facility through an underground 2-inch flex line (Photograph 21). This sump is not permitted. Although no sampling of the discharge has been conducted, several tanks containing hazardous materials, including sulfuric acid, phosphoric acid, and potassium hydroxide, are stored within the off-Site portion of the PO facility manufacturing area and tank farm containment apron (Photograph 19). Because this liquid was discharged on-Site, further characterization of the soils in the drainage ditch is needed to evaluate the potential for environmental impact.
- The eastern portion of the PO facility that is on the Site contains a tailings pile. This pile, consisting of remnants of fishmeal and bird guano (raw materials used in the manufacturing process), was observed at the PO natural fertilizer manufacturing facility in an open and uncontained area (Photograph 27). Sampling and analysis to characterize the tailings pile was initiated and some analytical results were generated; however, the process was not finalized and the sample locations could not be confirmed as either from the tailings pile or the background locations. The only metal that exceeded health-based federal and state screening levels is arsenic; however, it is present in concentrations within normal background levels for the San Joaquin Valley. Because it is not clear where the samples were collected, further characterization of the tailings pile and surrounding soils is needed to evaluate the potential of environmental impact.

Based upon the information collected and observations made during the ESA, URS also identified the following environmental issues at the Site that do not meet the definition of a REC, but should be noted.

- Stained soils were observed offsite approximately 150 feet south of the southern-central boundary of the Site. Because the location of the staining is outside of the current Site boundaries, the staining is not considered a REC at this time.
- Agricultural chemicals such as pesticides and herbicides are likely to have been applied to crops over time in the portion of the Site where agricultural production has occurred. URS noted no specific evidence of stains or storage related to agricultural chemicals, with the exceptions noted in the RECs above; therefore, this environmental issue is not considered a REC at this time.
- Several pole-mounted transformers in apparently good condition were noted at the Site. These transformers were reported to be the property of PG&E, and no leaks or staining were noted by URS; therefore, they are unlikely to represent a REC to the Site.

URS has performed an ESA of the Site located within Section 10 of Township 30 South and Range 24 East, Kern County, California. Our work was conducted in conformance with the scope and limitations of ASTM Practice E 1527. Any exceptions to, or deletions from, this practice are described in Section 1.3, Limitations and Exceptions. This ESA identified several RECs for which conclusions are provided below:

- The address associated with USTs located at Palm Farms, Inc. is listed only as “Adohr Road.” Because the Site and the adjacent land are both located on Adohr Road, and they were both formerly part of Palm Farms, Inc., these USTs have been identified as RECs because they may be on the Site, or they may be adjacent to and upgradient of the Site.
- A pipe that was observed during the off-Site PO visit may be a UST fill or vent pipe. This circumstance should be further investigated to determine if an on-Site UST is connected to the off-Site vent pipe.
- Wastewater that discharges onto the Site from the east sump of the off-Site portion of the PO facility is not permitted. Hazardous materials (including sulfuric acid, phosphoric acid, and potassium hydroxide) are stored within the tank farm concrete containment apron, and the apron discharges directly to the on-Site drainage ditch via sumps and the 2-inch flex line. Additional investigations should be conducted to evaluate whether environmental impacts to the Site have occurred from this discharge.
- The open and uncontained tailings pile located at the on-Site portion of the PO natural fertilizer manufacturing facility should be further investigated to evaluate whether environmental impacts to the Site have occurred from this tailings pile.

URS recommends that a Phase II ESA be conducted at the Site to determine the presence and/or extent of environmental contamination associated with the RECs and the additional environmental issues detailed in Section 7. The Phase II ESA should address potential contamination arising from each REC and environmental issue listed above, including the following areas:

- Collect soil samples to identify the presence of contaminants from the historical USTs that may have been located adjacent to the Site, and from any potential UST associated with the fill pipe or vent pipe that was observed adjacent to the Site. It is recommended that samples be collected from a depth of approximately 5 feet. Approximately 7 or 8 samples are recommended to be collected from the east-west Site boundary that forms part of the reverse “L”-shaped boundary between the Site and Port Organics. An additional 7 or 8 samples should also be collected from an upgradient location, such as near Adohr road on the property northwest of the Site. Because the EDR indicated the historical USTs contained fuel such as diesel, unleaded gasoline, and regular gasoline, the samples should be analyzed for various fuel parameters, including total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylene.
- Collect surface soil samples from the on-Site drainage ditch, samples from a depth of approximately 5 feet beneath the ditch, and samples from on-Site background areas to evaluate if Site soils have been adversely impacted from the wastewater discharge from PO into the ditch. Recommended parameters for analysis include the following:
 - Sulfate
 - Orthophosphate
 - Nitrates
 - Antimony
 - Arsenic
 - Barium
 - Beryllium
 - Cadmium
 - Chromium
 - Cobalt
 - Copper
 - Lead
 - Mercury
 - Molybdenum
 - Nickel
 - Selenium
 - Silver
 - Thallium
 - Vanadium
 - Zinc
 - pH.

- Collect additional samples from the tailings pile, adjacent surface soils, and on-Site background areas to evaluate if Site soils are adversely impacted. The recommended analytical parameters are the same as those listed above.

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- Cal-EPA 2005. Office of Environmental Health Hazard Assessment, "Human-Exposure-Based Screening Numbers Developed to Aid Estimation of Cleanup Costs for Contaminated Soil", January.
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- Cauzza. 2009. Personal communication between Mr. John Cauzza III, Site property owner, and Mr. Eric Barndt, URS Corporation, on January 13.
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- Environmental Data Resources, Inc. (EDR). 2008. *City Directory Abstract: Report Number 2367645.6*. EDR, Inc., Milford, CT. November 24.
- Houghton. 2009. Personal communication between Ms. Barbara Houghton, Geologist with the Kern County Environmental Health Services Department, and Mr. Eric Barndt, URS Corporation, on February 13.
- Nelson. 2009. Personal communication between Mr. Ken Nelson, Jr., owner/operator of Port Organics Products, LTD, and Mr. Eric Barndt, URS Corporation, on January 14.
- Starkey. 2009. Personal communication between Mr. Dan Starkey, Hazardous Materials Specialist with the Kern County Environmental Health Services Department, Hazardous Materials Division, and Mr. Eric Barndt, URS Corporation, on January 27.
- USGS TerraServer USA. www.terraserverusa.com. Searched on January 26, 2009.

11.1 CORPORATE

URS, a Nevada Corporation, includes professionals from URS Greiner, Woodward-Clyde Group Inc., Dames and Moore, Radian, and other engineering and planning companies that came together in 1997 as URS. URS has over 320 offices worldwide and provides professional services in engineering and sciences applied to the earth and its environment. One of the main areas of practice is Waste Management and Engineering, which involves the application of science and engineering to contamination assessment and cleanup; the management, minimization, treatment, and disposal of hazardous, solid and industrial waste; and regulatory compliance. Phase I ESAs are a part of this practice area and have been conducted by URS nationwide.

11.2 INDIVIDUAL

The qualifications of the Project Manager and of the other Environmental Professionals involved in this ESA meet the URS corporate requirements for performing ESAs.

Mr. Eric Barndt of the URS Denver office performed Site reconnaissance, file review, historical research, and report preparation. Mr. Barndt is an Engineer with more than fifteen years of environmental compliance and due diligence experience. He has conducted a number of Environmental Compliance Assessments and Phase I ESAs in Colorado, Idaho, Nevada, Oregon, Texas, and Washington.

Ms. Cynthia Kyle-Fischer of the URS Denver office assisted in the finalization of the report. Ms. Kyle-Fischer is an Engineer with over 20 years of characterization and regulatory compliance experience.

Ms. Lisa Millet of the URS Denver office performed the internal technical review of this ESA. Ms. Millet has over 20 years of relevant environmental professional experience.



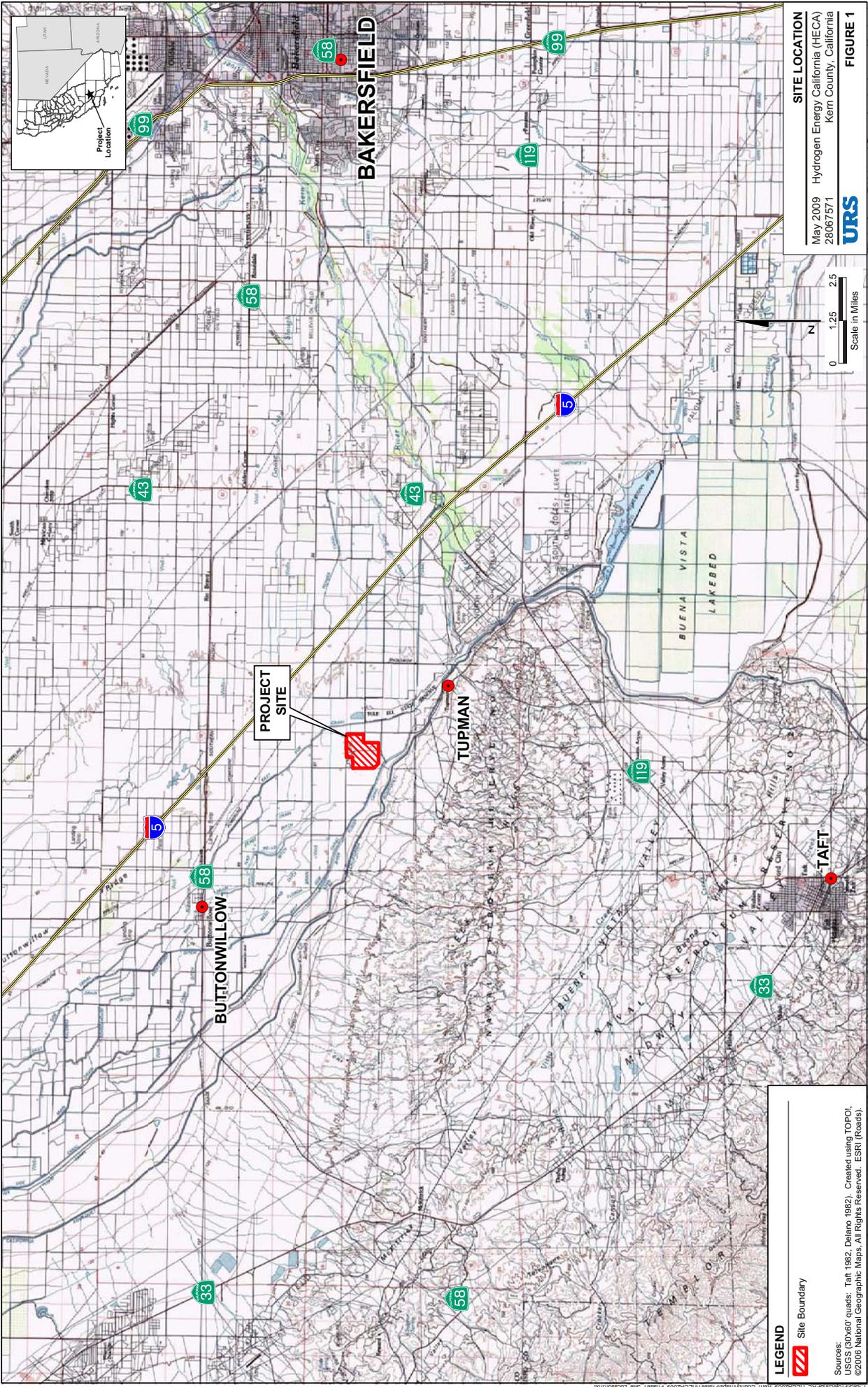
Eric Barndt
Engineer



Lisa Millet
Vice President
Denver Environmental Division Manager



Cynthia Kyle-Fischer
Engineer



SITE LOCATION
 May 2009 Hydrogen Energy California (HECA)
 28067571
 Kern County, California



Scale in Miles
 0 1.25 2.5



PROJECT LOCATION

BUENAVISTA LAKEBED

TUPMAN

TAFT

BUTTONWILLOW

BAKERSFIELD

99

58

43

33

119

5

LEGEND



Site Boundary

Sources:
 USGS (30'x30' quadrants; Taft 1982; Delano 1992). Created using TOPOI,
 ©2000 National Geographic Maps. All Rights Reserved. ESRI (Roads).
 4/2/09 vsa.THECA\GRAPHICS\Phase I\Fig_1_Site_Loc_Ph1_040309.a

FIGURE 1

Figure 2
Farm and Fertilizer Area



PROJECT SITE

Adhor Road

Dairy Road

Dairy Road Right of Way

Drainage Ditch

Tailings Pile

Possible UST, Fill Pipe or Vent Pipe

Privately Owned Home

FARM AND FERTILIZER AREA
 Hydrogen Energy California (HECA)
 Kern County, California
 28067571

URS

FIGURE 2



N

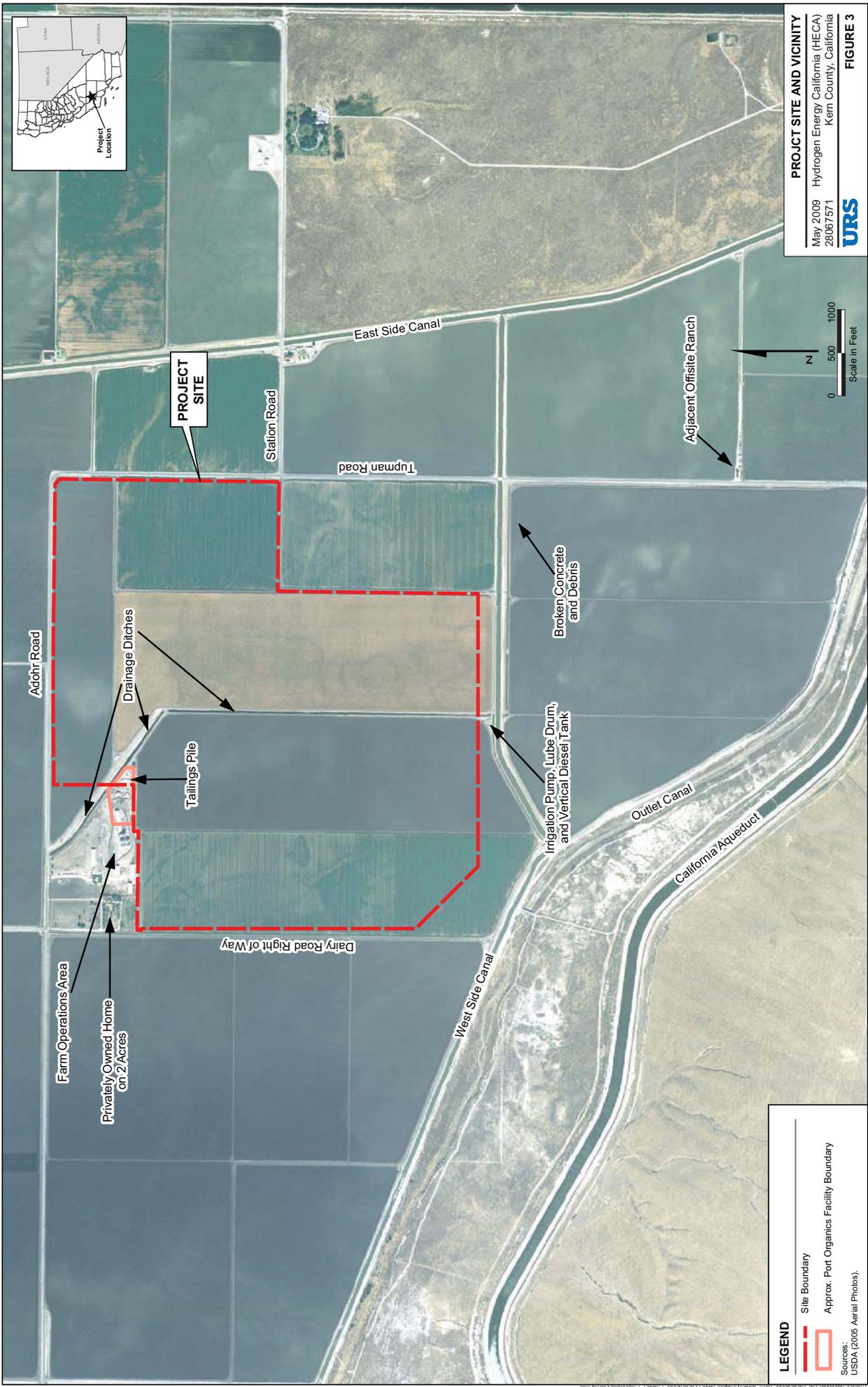
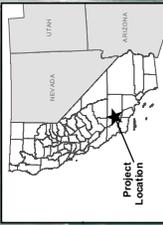
LEGEND

- Site Boundary
- Approx. Port Organics Facility Boundary

Sources:
 USDA (2005 Aerial Photos)

4/22/08 vs. T:\HEC\GR\PHCS\Phase I\Fig 2_Farm & Fert_Ph1_040308.a

Figure 3
Project Site and Vicinity



PROJECT SITE AND VICINITY
 May 2009 Hydrogen Energy California (HECA)
 28067571 Kern County, California
URS
FIGURE 3

LEGEND

- Site Boundary
- Approx. Port Organics Facility Boundary

Sources:
 USDA (2005 Aerial Photos).

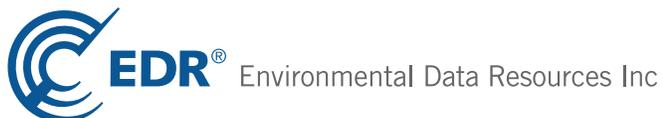
4/22/09 vsa.T:\HECA\GRAPHICS\Phase II\Fig.3_project site vicinity_Ph1_040309.ai

Site 7

1.25 Miles SW of Station Road/Tupman Road
Buttonwillow, CA 93206

Inquiry Number: 2367645.2s
November 20, 2008

The EDR Radius Map™ Report with GeoCheck®



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Milford, CT 06461
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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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1.25 MILES SW OF STATION ROAD/TUPMAN ROAD
BUTTONWILLOW, CA 93206

COORDINATES

Latitude (North): 35.326900 - 35° 19' 36.8"
Longitude (West): 119.386000 - 119° 23' 9.6"
Universal Transverse Mercator: Zone 11
UTM X (Meters): 283117.0
UTM Y (Meters): 3911709.8
Elevation: 288 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 35119-C4 EAST ELK HILLS, CA
Most Recent Revision: 1973

East Map: 35119-C3 TUPMAN, CA
Most Recent Revision: 1973

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL LIENS..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
LIENS 2..... CERCLA Lien Information

EXECUTIVE SUMMARY

CORRACTS.....	Corrective Action Report
RCRA-TSDF.....	RCRA - Transporters, Storage and Disposal
RCRA-LQG.....	RCRA - Large Quantity Generators
RCRA-SQG.....	RCRA - Small Quantity Generators
RCRA-CESQG.....	RCRA - Conditionally Exempt Small Quantity Generator
RCRA-NonGen.....	RCRA - Non Generators
US ENG CONTROLS.....	Engineering Controls Sites List
US INST CONTROL.....	Sites with Institutional Controls
ERNS.....	Emergency Response Notification System
HMIRS.....	Hazardous Materials Information Reporting System
DOT OPS.....	Incident and Accident Data
US CDL.....	Clandestine Drug Labs
US BROWNFIELDS.....	A Listing of Brownfields Sites
FUDS.....	Formerly Used Defense Sites
LUCIS.....	Land Use Control Information System
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
DEBRIS REGION 9.....	Torres Martinez Reservation Illegal Dump Site Locations
ODI.....	Open Dump Inventory
MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing

STATE AND LOCAL RECORDS

HIST Cal-Sites.....	Historical Calsites Database
CA BOND EXP. PLAN.....	Bond Expenditure Plan
SCH.....	School Property Evaluation Program
Toxic Pits.....	Toxic Pits Cleanup Act Sites
SWF/LF.....	Solid Waste Information System
WMUDS/SWAT.....	Waste Management Unit Database
CA WDS.....	Waste Discharge System
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
SWRCY.....	Recycler Database
LUST.....	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST.....	Facility Inventory Database
SLIC.....	Statewide SLIC Cases
UST.....	Active UST Facilities
AST.....	Aboveground Petroleum Storage Tank Facilities
LIENS.....	Environmental Liens Listing
SWEEPS UST.....	SWEEPS UST Listing
CHMIRS.....	California Hazardous Material Incident Report System
Notify 65.....	Proposition 65 Records

EXECUTIVE SUMMARY

DEED.....	Deed Restriction Listing
VCP.....	Voluntary Cleanup Program Properties
DRYCLEANERS.....	Cleaner Facilities
WIP.....	Well Investigation Program Case List
CDL.....	Clandestine Drug Labs
RESPONSE.....	State Response Sites
HAZNET.....	Facility and Manifest Data
HAULERS.....	Registered Waste Tire Haulers Listing
ENVIROSTOR.....	EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV.....	Indian Reservations
INDIAN ODI.....	Report on the Status of Open Dumps on Indian Lands
INDIAN LUST.....	Leaking Underground Storage Tanks on Indian Land
INDIAN UST.....	Underground Storage Tanks on Indian Land
INDIAN VCP.....	Voluntary Cleanup Priority Listing

EDR PROPRIETARY RECORDS

Manufactured Gas Plants.....	EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations..	EDR Proprietary Historic Gas Stations
EDR Historical Cleaners.....	EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

DOD: 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.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 2.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NAVAL PETROLEUM RESERVE NUMBER		S 1 - 2 (1.230 mi.)	0	6

EXECUTIVE SUMMARY

STATE AND LOCAL RECORDS

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 1.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MARTIN SNOW FARM	STATION RD, 1/4 MILE EA	ENE 1/2 - 1 (0.712 mi.)	1	6
PALM FARMS, INC.	ADOHR RD.	NNE 1/2 - 1 (0.985 mi.)	2	7

EMI: Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies

A review of the EMI list, as provided by EDR, and dated 12/31/2005 has revealed that there are 2 EMI sites within approximately 1.25 miles of the target property.

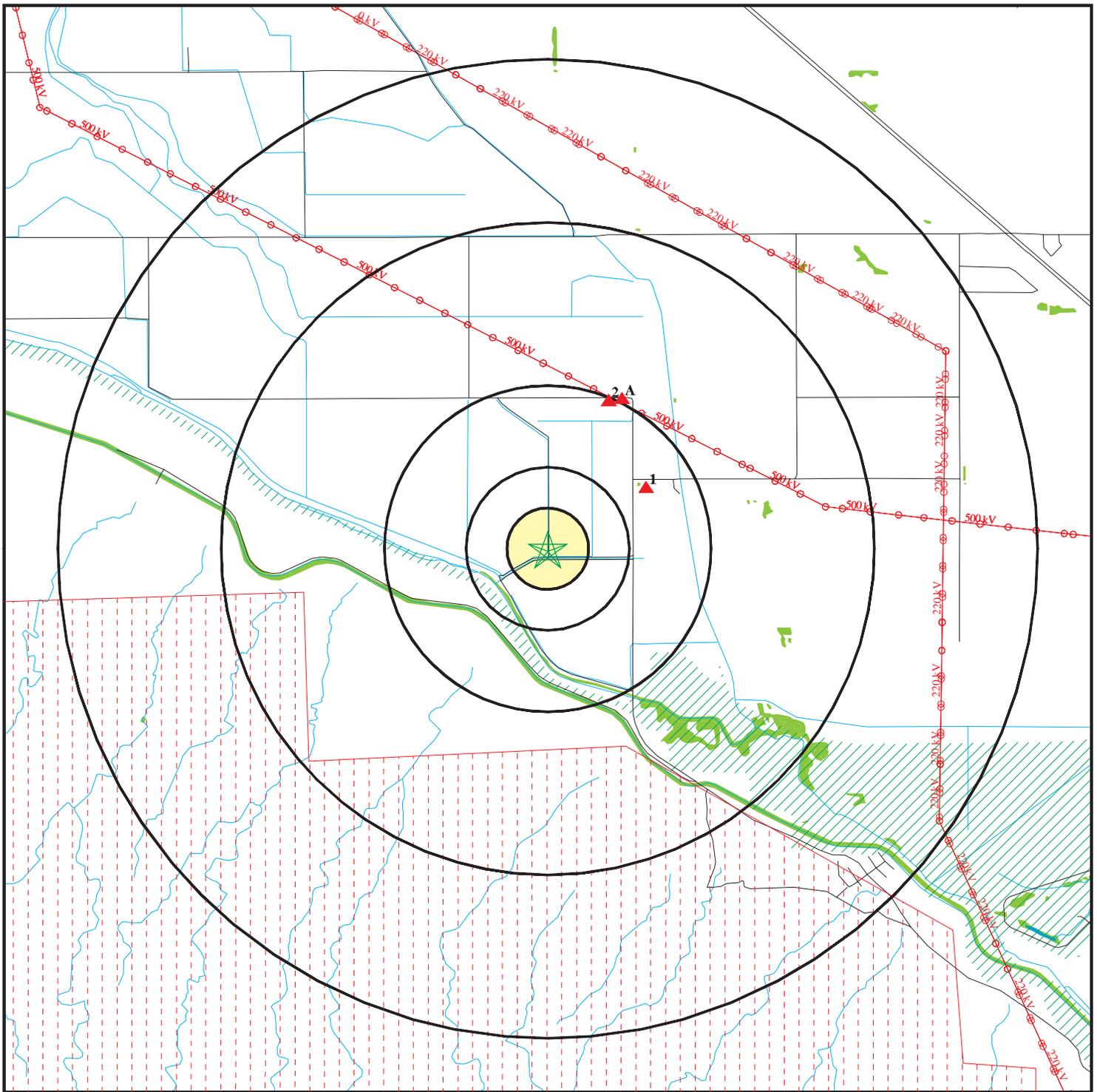
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SHANCO COMMODITIES COMPANY INC	7361 ADOHR ROAD	NNE 1 - 2 (1.031 mi.)	A3	8
WESTERN MILLING LLC	7361 ADOHR RD	NNE 1 - 2 (1.031 mi.)	A4	8

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
SHELL OIL COMPANY	SWEEPS UST
GIN # 3 & 5	SWEEPS UST
A.J. TORRIGIANI & SON	SWEEPS UST
A AND L FARM	HIST UST, SWEEPS UST
BELRIDGE FIELD WAREHOUSE FUEL	SWEEPS UST
MC NEAL & SHUCK	SWEEPS UST
COOPER RANCH	SWEEPS UST
VAN LEASE	SWEEPS UST
EXXON MOBIL PRODUCTION	HAZNET, CHMIRS
BUTTONWILLOW SCHOOL DISTRICT	LUST
ALVIDRES UNION 76	UST
BUTTONWILLOW SCHOOL DISTRICT	UST
WEST KERN MACHINERY, INC	UST
FORMER BUTTONWILLOW AIRPORT	UST
COOPERS PETRO DIST INC	UST
MCNEAL AND SHUCK PETROLEUM	UST
CAL TRANS - MCKITTRICK MAINT STA	UST
MCKITTRICK OILFIELD SUPPLY	UST
DAVID ABRAHAM MCKITTRICK USTS	UST
MCKITTRICK SCHOOL DISTRICT	UST
LUNN PROD. SERVICE	UST
COOPER RANCH	HIST UST
MCKETTRICK	HIST UST
FRED E. SMITH LEASE	HIST UST
TULARE FEE	HIST UST
VAN LEASE	HIST UST
MCKITTRICK PUMP STATION	HIST UST
BUTTONWILLOW UNION SCHOOL DISTRICT	HAZNET
SOUTHERN CALIFORNIA EDISON	HAZNET
C R S GINNING CO	HAZNET
MOJAVE P/L CO.-OXY 17-Z	HAZNET
MCKITTRICK WASTE TREATMENT SITE	FINDS, HAZNET
CHEVRON USA INC-CYMRIC AREA PRODUC	FINDS, HAZNET
CHEVRON USA INC-CYMRIC AREA PRODUC	HAZNET
BUTTONWILLOW AIRPORT	SLIC
SEMITROPIC WATER STORAGE DIST	EMI
ENVIROCYCLE INC	EMI

OVERVIEW MAP - 2367645.2s



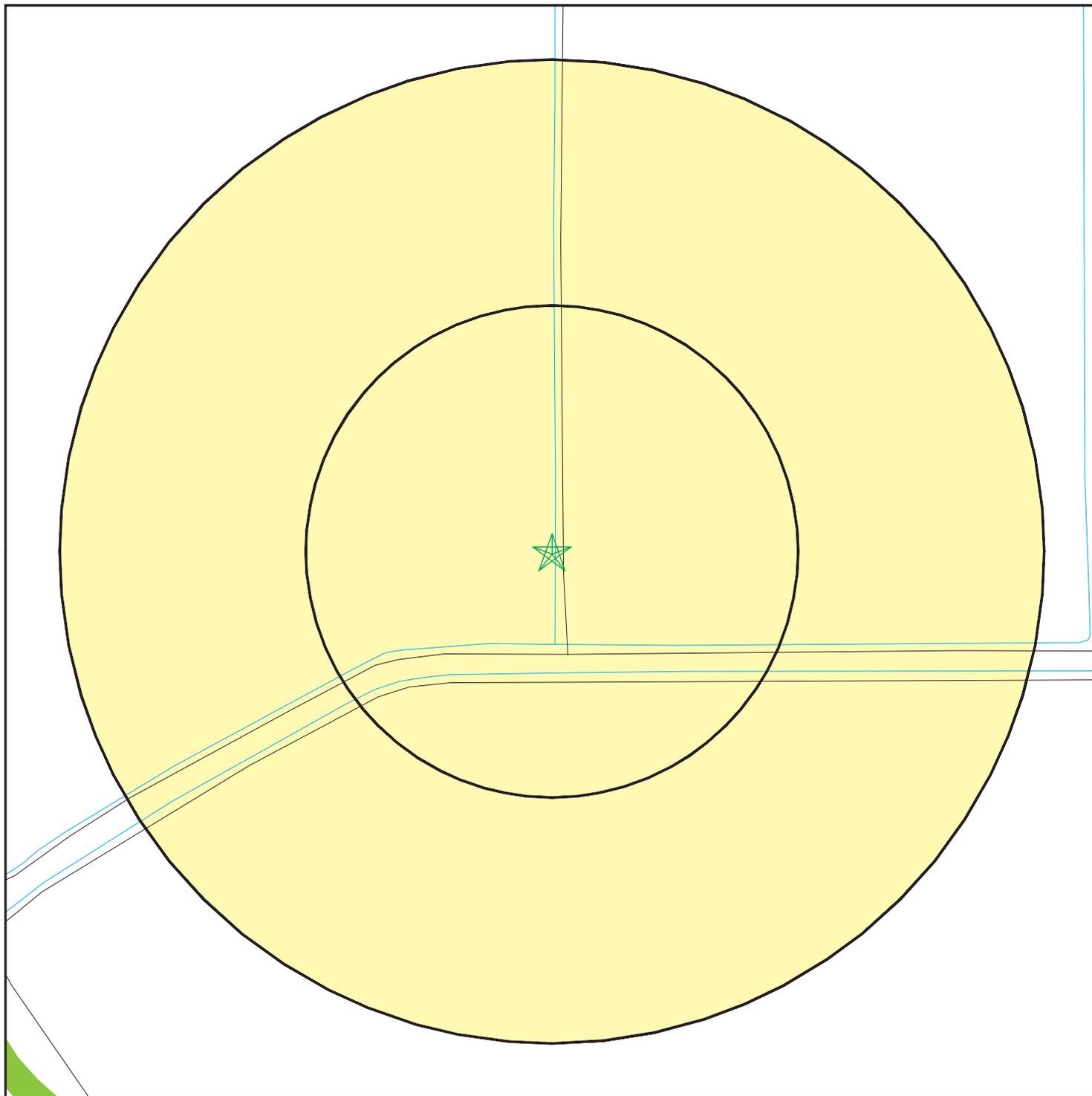
- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ▨ National Priority List Sites
- ▩ Dept. Defense Sites
- ▨ Indian Reservations BIA
- ▲ Power transmission lines
- ▲ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory
- ▨ Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Site 7
 ADDRESS: 1.25 Miles SW of Station Road/Tupman Road
 Buttonwillow CA 93206
 LAT/LONG: 35.3269 / 119.3860

CLIENT: URS Corporation
 CONTACT: Cindy Kyle-Fischer
 INQUIRY #: 2367645.2s
 DATE: November 20, 2008 11:51 am

DETAIL MAP - 2367645.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- ☒ National Priority List Sites
- ☒ Dept. Defense Sites

- ☒ Indian Reservations BIA
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory
- ☒ Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

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 LAT/LONG: 35.3269 / 119.3860

CLIENT: URS Corporation
 CONTACT: Cindy Kyle-Fischer
 INQUIRY #: 2367645.2s
 DATE: November 20, 2008 11:51 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		2.250	0	0	0	0	0	0
Proposed NPL		2.250	0	0	0	0	0	0
Delisted NPL		2.250	0	0	0	0	0	0
NPL LIENS		1.250	0	0	0	0	0	0
CERCLIS		1.750	0	0	0	0	0	0
CERC-NFRAP		1.750	0	0	0	0	0	0
LIENS 2		1.250	0	0	0	0	0	0
CORRACTS		2.250	0	0	0	0	0	0
RCRA-TSDF		1.750	0	0	0	0	0	0
RCRA-LQG		1.500	0	0	0	0	0	0
RCRA-SQG		1.500	0	0	0	0	0	0
RCRA-CESQG		1.500	0	0	0	0	0	0
RCRA-NonGen		1.500	0	0	0	0	0	0
US ENG CONTROLS		1.750	0	0	0	0	0	0
US INST CONTROL		1.750	0	0	0	0	0	0
ERNS		1.250	0	0	0	0	0	0
HMIRS		1.250	0	0	0	0	0	0
DOT OPS		1.250	0	0	0	0	0	0
US CDL		1.250	0	0	0	0	0	0
US BROWNFIELDS		1.750	0	0	0	0	0	0
DOD		2.250	0	0	0	0	1	1
FUDS		2.250	0	0	0	0	0	0
LUCIS		1.750	0	0	0	0	0	0
CONSENT		2.250	0	0	0	0	0	0
ROD		2.250	0	0	0	0	0	0
UMTRA		1.750	0	0	0	0	0	0
DEBRIS REGION 9		1.750	0	0	0	0	0	0
ODI		1.750	0	0	0	0	0	0
MINES		1.500	0	0	0	0	0	0
TRIS		1.250	0	0	0	0	0	0
TSCA		1.250	0	0	0	0	0	0
FTTS		1.250	0	0	0	0	0	0
HIST FTTS		1.250	0	0	0	0	0	0
SSTS		1.250	0	0	0	0	0	0
ICIS		1.250	0	0	0	0	0	0
PADS		1.250	0	0	0	0	0	0
MLTS		1.250	0	0	0	0	0	0
RADINFO		1.250	0	0	0	0	0	0
FINDS		1.250	0	0	0	0	0	0
RAATS		1.250	0	0	0	0	0	0
SCRD DRYCLEANERS		1.750	0	0	0	0	0	0
<u>STATE AND LOCAL RECORDS</u>								
HIST Cal-Sites		2.250	0	0	0	0	0	0
CA BOND EXP. PLAN		2.250	0	0	0	0	0	0
SCH		1.500	0	0	0	0	0	0
Toxic Pits		2.250	0	0	0	0	0	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SWF/LF		1.750	0	0	0	0	0	0
WMUDS/SWAT		1.750	0	0	0	0	0	0
CA WDS		1.250	0	0	0	0	0	0
Cortese		1.750	0	0	0	0	0	0
SWRCY		1.750	0	0	0	0	0	0
LUST		1.750	0	0	0	0	0	0
CA FID UST		1.500	0	0	0	0	0	0
SLIC		1.750	0	0	0	0	0	0
UST		1.500	0	0	0	0	0	0
HIST UST		1.500	0	0	0	2	0	2
AST		1.500	0	0	0	0	0	0
LIENS		1.250	0	0	0	0	0	0
SWEEPS UST		1.500	0	0	0	0	0	0
CHMIRS		1.250	0	0	0	0	0	0
Notify 65		2.250	0	0	0	0	0	0
DEED		1.750	0	0	0	0	0	0
VCP		1.750	0	0	0	0	0	0
DRYCLEANERS		1.500	0	0	0	0	0	0
WIP		1.500	0	0	0	0	0	0
CDL		1.250	0	0	0	0	0	0
RESPONSE		2.250	0	0	0	0	0	0
HAZNET		1.250	0	0	0	0	0	0
EMI		1.250	0	0	0	0	2	2
HAULERS		1.250	0	0	0	0	0	0
ENVIROSTOR		2.250	0	0	0	0	0	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		2.250	0	0	0	0	0	0
INDIAN ODI		1.750	0	0	0	0	0	0
INDIAN LUST		1.750	0	0	0	0	0	0
INDIAN UST		1.500	0	0	0	0	0	0
INDIAN VCP		1.750	0	0	0	0	0	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		2.250	0	0	0	0	0	0
EDR Historical Auto Stations		1.500	0	0	0	0	0	0
EDR Historical Cleaners		1.500	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DOD
Region
South
> 1
6496 ft.

NAVAL PETROLEUM RESERVE NUMBER ONE
NAVAL PETROLEUM RESERVE N (County), CA

DOD **CUSA139675**
N/A

DOD:

Feature 1: Navy DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Naval Petroleum Reserve Number One
Name 2: Not reported
Name 3: Not reported
State: CA
DOD Site: Yes
Tile name: CAKERN

1
ENE
1/2-1
0.712 mi.
3762 ft.

MARTIN SNOW FARM
STATION RD, 1/4 MILE EAST OF
BUTTONWILLOW, CA 93206

HIST UST **U001580882**
N/A

Relative:
Equal

HIST UST:

Region: STATE
Facility ID: 00000012669
Facility Type: Other
Other Type: FARMING
Total Tanks: 0000
Contact Name: MARTIN SNOW
Telephone: 8053257779
Owner Name: MARTIN SNOW
Owner Address: 3344 EL ENCANTO CT.
Owner City,St,Zip: BAKERSFIELD, CA 93301

Actual:
288 ft.

Tank Num: 001
Container Num: 2
Year Installed: 1970
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 1
Year Installed: 1970
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

2
NNE
1/2-1
0.985 mi.
5201 ft.

PALM FARMS, INC.
ADOHR RD.
BUTTONWILLOW, CA 93206

HIST UST **U001580887**
N/A

Relative:
Equal

HIST UST:
Region: STATE
Facility ID: 00000042966
Facility Type: Other
Other Type: FARMING
Total Tanks: 0005
Contact Name: SAM ACKERMAN
Telephone: 8053274693
Owner Name: PALM FARMS, INC.
Owner Address: P.O. BOX 1118
Owner City,St,Zip: BAKERSFIELD, CA 93302

Actual:
288 ft.

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00003000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: None

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00003000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 005
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PALM FARMS, INC. (Continued)

U001580887

Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

A3
NNE
> 1
1.031 mi.
5444 ft.

SHANCO COMMODITIES COMPANY INC
7361 ADOHR ROAD
BUTTONWILLOW, CA 0
Site 1 of 2 in cluster A

EMI S106839184
N/A

Relative:
Equal

EMI:
Year: 2000
County Code: 15
Air Basin: SJV
Facility ID: 3355
Air District Name: SJU
SIC Code: 4221
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 8
Part. Matter 10 Micrometers & Smlr Tons/Yr: 2

Actual:
288 ft.

Year: 2003
County Code: 15
Air Basin: SJV
Facility ID: 3355
Air District Name: SJU
SIC Code: 4221
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

A4
NNE
> 1
1.031 mi.
5444 ft.

WESTERN MILLING LLC
7361 ADOHR RD
BUTTONWILLOW, CA 93206
Site 2 of 2 in cluster A

EMI S108433824
N/A

Relative:
Equal

EMI:
Year: 2005
County Code: 15
Air Basin: SJV
Facility ID: 3355

Actual:
288 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WESTERN MILLING LLC (Continued)

S108433824

Air District Name:	SJU
SIC Code:	4221
Air District Name:	SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.9938425643605206896
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.288214343664551

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BUTTONWILLOW	S106932093	SHELL OIL COMPANY	I-5 HWY 58/TRACY AVE	93206	SWEEPS UST
BUTTONWILLOW	U004112557	ALVIDRES UNION 76	100 W HWY 58 & MAIN ST	93206	UST
BUTTONWILLOW	S106926734	GIN # 3 & 5	LERDO HWY / MAIN DRA	93206	SWEEPS UST
BUTTONWILLOW	S106922342	A.J. TORRIGIANI & SON	MCKITTRICK HWY	93206	SWEEPS UST
BUTTONWILLOW	S108199954	BUTTONWILLOW UNION SCHOOL DISTRICT	400 MCKITTRICK HWY	93206	HAZNET
BUTTONWILLOW	U001580842	A AND L FARM	MCKITTRICK HWY	93206	HIST UST, SWEEPS UST
BUTTONWILLOW	U003991982	BUTTONWILLOW SCHOOL DISTRICT	400 MCKITTRICK HWY	93206	LUST
BUTTONWILLOW	U004112551	BUTTONWILLOW SCHOOL DISTRICT	400 MCKITTRICK HWY	93206	UST
BUTTONWILLOW	S106921428	SEMITROPIC WATER STORAGE DIST	MERCED AVE / HWY 5	93206	EMI
BUTTONWILLOW	S106485995	BUTTONWILLOW AIRPORT	ST. ROUTE 58	93206	SLIC
BUTTONWILLOW	S108221055	SOUTHERN CALIFORNIA EDISON	N W CORNER OF HWY 58 / WASCO	93206	HAZNET
BUTTONWILLOW	U004112556	WEST KERN MACHINERY, INC	1/4 M W/INT 5-LERDO HWY	93206	UST
BUTTONWILLOW	U004112625	FORMER BUTTONWILLOW AIRPORT	WASCO WAY & HWY 58	93206	UST
FELLOWS	U003981419	COOPERS PETRO DIST INC	27000 HWY 33	93251	UST
LOST HILLS	S102797287	C R S GINNING CO	MI 1/2 NORTH OF LAREDO HWY ON	93251	HAZNET
MC KITTRICK	S106923231	BELRIDGE FIELD WAREHOUSE FUELI	HWY 33 1-2 MI N OF 7	93251	SWEEPS UST
MC KITTRICK	S106929239	MC NEAL & SHUCK	HWY 33 / D ST	93251	SWEEPS UST
MC KITTRICK	S106924903	COOPER RANCH	HIGHWAY 58	93251	SWEEPS UST
MC KITTRICK	S106934026	VAN LEASE	3 MI W OF HWY 33 EXTEN O	93251	SWEEPS UST
MCKITTRICK	S104574590	EXXON MOBIL PRODUCTION	18271 HWY 33	93251	HAZNET, CHMIRS
MCKITTRICK	S107620890	ENVIROCYCLE INC	21992 HWY 33	93251	EMI
MCKITTRICK	U004050986	MCNEAL AND SHUCK PETROLEUM	HWY 33 AND D ST	93251	UST
MCKITTRICK	U004112069	CAL TRANS - MCKITTRICK MAINT STA	HWY 33	93251	UST
MCKITTRICK	U004112445	MCKITTRICK OILFIELD SUPPLY	HWY 33 & RESERVE RD	93251	UST
MCKITTRICK	U004113725	DAVID ABRAHAM MCKITTRICK USTS	HWY 33 AND D ST	93251	UST
MCKITTRICK	U001582189	COOPER RANCH	HWY. 58	93251	HIST UST
MCKITTRICK	U004112364	MCKITTRICK SCHOOL DISTRICT	HWY 58	93251	UST
MCKITTRICK	S108214218	MOJAVE P/L CO.-OXY 17-Z	CORNER OF HWY 58 / HWY 33 OX	93251	HAZNET
MCKITTRICK	U004112393	LUNN PROD. SERVICE	REWARD RD, 1 BL W HWY 33	93251	UST
MCKITTRICK	U001582197	MCKETTRICK	STATE HWY 33	93251	HIST UST
MCKITTRICK	1007737894	MCKITTRICK WASTE TREATMENT SITE	3/4 MI SW/O MCKITTRICK RTE 33	93251	FINDS, HAZNET
MCKITTRICK	U001582195	FRED E. SMITH LEASE	4 MI. W. OF MCKITTRICK, HWY 58	93251	HIST UST
MCKITTRICK	U001582204	TULARE FEE	3 MI. W. OF MCKITTRICK, HWY 58	93251	HIST UST
MCKITTRICK	1007739417	CHEVRON USA INC-CYMRIC AREA PRODUC	2 MI W/HWY 33	93251	FINDS, HAZNET
MCKITTRICK	S100932444	CHEVRON USA INC-CYMRIC AREA PRODUC	2 MI W/HWY 33	93251	HAZNET
MCKITTRICK	U001582207	VAN LEASE	3 MI. WEST OF HWY. 33 EXTEN. O	93251	HIST UST
OUTSIDE MCKITTRICK	U001582199	MCKITTRICK PUMP STATION	STATE HIGHWAY 33	93251	HIST UST

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.

FEDERAL RECORDS

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: 09/29/2008	Source: EPA
Date Data Arrived at EDR: 10/10/2008	Telephone: N/A
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 09/29/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/26/2009
	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 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

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: 09/29/2008	Source: EPA
Date Data Arrived at EDR: 10/10/2008	Telephone: N/A
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 09/29/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/26/2009
	Data Release Frequency: Quarterly

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: 09/29/2008	Source: EPA
Date Data Arrived at EDR: 10/10/2008	Telephone: N/A
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 09/29/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/26/2009
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 11/17/2008
Number of Days to Update: 56	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/09/2008	Source: EPA
Date Data Arrived at EDR: 07/22/2008	Telephone: 703-412-9810
Date Made Active in Reports: 08/25/2008	Last EDR Contact: 10/16/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/12/2009
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007	Source: EPA
Date Data Arrived at EDR: 12/06/2007	Telephone: 703-412-9810
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 09/15/2008
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/15/2008
	Data Release Frequency: Quarterly

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: 08/19/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/29/2008	Telephone: 202-564-6023
Date Made Active in Reports: 09/09/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 11	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/11/2008	Source: EPA
Date Data Arrived at EDR: 09/19/2008	Telephone: 800-424-9346
Date Made Active in Reports: 10/16/2008	Last EDR Contact: 09/02/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/01/2008
	Data Release Frequency: Quarterly

RCRA-TSDF: RCRA - Transporters, 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/18/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/18/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/10/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/18/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/18/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Varies

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/10/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 11/18/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/23/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/29/2008	Telephone: 703-603-0695
Date Made Active in Reports: 08/25/2008	Last EDR Contact: 09/29/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/29/2008
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/23/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/29/2008	Telephone: 703-603-0695
Date Made Active in Reports: 08/25/2008	Last EDR Contact: 06/30/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 09/29/2008
	Data Release Frequency: Varies

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2007	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/23/2008	Telephone: 202-267-2180
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 10/21/2008
Number of Days to Update: 54	Next Scheduled EDR Contact: 01/19/2009
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/30/2008	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 10/16/2008	Telephone: 202-366-4555
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 10/16/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/12/2009
	Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/28/2008	Telephone: 202-366-4595
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/29/2008
Number of Days to Update: 72	Next Scheduled EDR Contact: 11/24/2008
	Data Release Frequency: Varies

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 12/28/2007
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 10/31/2008
Next Scheduled EDR Contact: 12/22/2008
Data Release Frequency: Quarterly

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 08/25/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 10/16/2008
Next Scheduled EDR Contact: 01/12/2009
Data Release Frequency: Semi-Annually

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: 703-692-8801
Last EDR Contact: 11/07/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 09/05/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 18

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/05/2008
Next Scheduled EDR Contact: 12/29/2008
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 09/09/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/25/2008
Date Data Arrived at EDR: 06/12/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/20/2008
Next Scheduled EDR Contact: 01/19/2009
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 06/18/2008
Date Data Arrived at EDR: 07/11/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 45

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/29/2008
Next Scheduled EDR Contact: 12/29/2008
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 07/13/2007
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/15/2008
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: 03/25/2008
Date Data Arrived at EDR: 04/17/2008
Date Made Active in Reports: 05/15/2008
Number of Days to Update: 28

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 09/22/2008
Next Scheduled EDR Contact: 12/22/2008
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/07/2008
Date Data Arrived at EDR: 09/23/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 23

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/23/2008
Next Scheduled EDR Contact: 12/22/2008
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 09/19/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 10/14/2008
Next Scheduled EDR Contact: 01/12/2009
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/12/2008
Date Data Arrived at EDR: 07/18/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 38

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 07/12/2008
Date Data Arrived at EDR: 07/18/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 38

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/15/2008
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/14/2008
Next Scheduled EDR Contact: 01/12/2009
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/31/2008
Date Data Arrived at EDR: 08/13/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/14/2008
Next Scheduled EDR Contact: 01/12/2009
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: 12/04/2007
Date Data Arrived at EDR: 02/07/2008
Date Made Active in Reports: 03/17/2008
Number of Days to Update: 39

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 09/18/2008
Next Scheduled EDR Contact: 11/03/2008
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/03/2008
Date Data Arrived at EDR: 10/15/2008
Date Made Active in Reports: 11/19/2008
Number of Days to Update: 35

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/29/2008
Next Scheduled EDR Contact: 12/29/2008
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/29/2008
Date Data Arrived at EDR: 07/31/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 25

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/29/2008
Next Scheduled EDR Contact: 01/26/2009
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/01/2008	Source: EPA
Date Data Arrived at EDR: 07/09/2008	Telephone: (415) 947-8000
Date Made Active in Reports: 08/25/2008	Last EDR Contact: 09/29/2008
Number of Days to Update: 47	Next Scheduled EDR Contact: 12/29/2008
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

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: 12/31/2005	Source: EPA/NTIS
Date Data Arrived at EDR: 03/06/2007	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2007	Last EDR Contact: 09/12/2008
Number of Days to Update: 38	Next Scheduled EDR Contact: 12/08/2008
	Data Release Frequency: Biennially

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: 09/08/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2008	Telephone: 615-532-8599
Date Made Active in Reports: 09/23/2008	Last EDR Contact: 11/10/2008
Number of Days to Update: 13	Next Scheduled EDR Contact: 02/09/2009
	Data Release Frequency: Varies

STATE AND LOCAL RECORDS

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	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/25/2008
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/24/2008
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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: 08/25/2008
Date Data Arrived at EDR: 08/27/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/27/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 11/04/2008
Next Scheduled EDR Contact: 01/26/2009
Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/08/2008
Date Data Arrived at EDR: 09/09/2008
Date Made Active in Reports: 09/18/2008
Number of Days to Update: 9

Source: Integrated Waste Management Board
Telephone: 916-341-6320
Last EDR Contact: 09/09/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 09/29/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Quarterly

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/14/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Quarterly

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). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/20/2008
Next Scheduled EDR Contact: 01/19/2009
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 07/09/2008
Date Data Arrived at EDR: 07/10/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 21

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/08/2008
Next Scheduled EDR Contact: 01/05/2009
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 07/03/2008
Date Data Arrived at EDR: 07/11/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 20

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 11/04/2008
Next Scheduled EDR Contact: 01/05/2009
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: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
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: 10/06/2008
Next Scheduled EDR Contact: 01/05/2009
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/10/2008
Next Scheduled EDR Contact: 02/02/2009
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: 09/23/2008
Next Scheduled EDR Contact: 12/22/2008
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: 07/22/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Quarterly

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/02/2008
Next Scheduled EDR Contact: 12/01/2008
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: 09/29/2008
Next Scheduled EDR Contact: 12/29/2008
Data Release Frequency: No Update Planned

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: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
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: 10/14/2008
Next Scheduled EDR Contact: 01/12/2009
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 11/04/2008
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/02/2009
	Data Release Frequency: Varies

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	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 07/03/2008	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/11/2008	Telephone: 866-480-1028
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 11/04/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/05/2009
	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	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 11/17/2008
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/17/2008
	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	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/06/2008
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/05/2009
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 11/10/2008
Number of Days to Update: 28	Next Scheduled EDR Contact: 02/09/2009
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/20/2008
Next Scheduled EDR Contact: 01/19/2009
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/29/2008
Next Scheduled EDR Contact: 12/29/2008
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 09/29/2008
Next Scheduled EDR Contact: 12/29/2008
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/02/2008
Next Scheduled EDR Contact: 12/01/2008
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: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
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: 09/29/2008
Next Scheduled EDR Contact: 12/29/2008
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/25/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/10/2008
Date Data Arrived at EDR: 07/10/2008
Date Made Active in Reports: 07/25/2008
Number of Days to Update: 15

Source: SWRCB
Telephone: 916-480-1028
Last EDR Contact: 11/04/2008
Next Scheduled EDR Contact: 01/05/2009
Data Release Frequency: Semi-Annually

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 10/06/2008
Date Data Arrived at EDR: 10/06/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 10

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 10/06/2008
Next Scheduled EDR Contact: 12/22/2008
Data Release Frequency: Varies

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

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 11/01/2007
Date Data Arrived at EDR: 11/27/2007
Date Made Active in Reports: 02/14/2008
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/27/2008
Next Scheduled EDR Contact: 01/26/2009
Data Release Frequency: Quarterly

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/04/2008
Date Data Arrived at EDR: 08/08/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 26

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/03/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Varies

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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: 12/31/2007
Date Data Arrived at EDR: 05/09/2008
Date Made Active in Reports: 06/20/2008
Number of Days to Update: 42

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 10/14/2008
Next Scheduled EDR Contact: 01/12/2009
Data Release Frequency: No Update Planned

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: 09/30/2008
Date Data Arrived at EDR: 09/30/2008
Date Made Active in Reports: 10/13/2008
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/30/2008
Next Scheduled EDR Contact: 12/29/2008
Data Release Frequency: Semi-Annually

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: 08/25/2008
Date Data Arrived at EDR: 08/27/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/27/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Quarterly

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/23/2008
Date Data Arrived at EDR: 09/24/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 5

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 09/23/2008
Next Scheduled EDR Contact: 12/29/2008
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 02/26/2008
Date Data Arrived at EDR: 04/23/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 11/03/2008
Next Scheduled EDR Contact: 01/19/2009
Data Release Frequency: Varies

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: 09/30/2008
Date Data Arrived at EDR: 10/06/2008
Date Made Active in Reports: 10/13/2008
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 09/29/2008
Next Scheduled EDR Contact: 01/19/2009
Data Release Frequency: Varies

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: 08/25/2008
Date Data Arrived at EDR: 08/27/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/27/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 10/04/2007
Date Made Active in Reports: 11/07/2007
Number of Days to Update: 34

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 11/07/2008
Next Scheduled EDR Contact: 02/02/2008
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 04/17/2007
Date Made Active in Reports: 05/10/2007
Number of Days to Update: 23

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 10/16/2008
Next Scheduled EDR Contact: 01/12/2009
Data Release Frequency: Varies

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/22/2008
Date Data Arrived at EDR: 09/22/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 7

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 09/08/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Varies

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/25/2008
Date Data Arrived at EDR: 08/27/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/27/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 11/07/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Semi-Annually

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: 08/25/2008
Next Scheduled EDR Contact: 11/24/2008
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: 08/21/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 5

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/17/2008
Date Data Arrived at EDR: 03/27/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 40

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 11/19/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/06/2008	Source: EPA Region 4
Date Data Arrived at EDR: 10/09/2008	Telephone: 404-562-8677
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008	Source: EPA Region 1
Date Data Arrived at EDR: 03/14/2008	Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 02/16/2009
	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: 10/10/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/10/2008	Telephone: 415-972-3372
Date Made Active in Reports: 10/16/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/22/2008	Source: EPA Region 10
Date Data Arrived at EDR: 08/22/2008	Telephone: 206-553-2857
Date Made Active in Reports: 09/09/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 18	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/05/2008	Source: EPA Region 6
Date Data Arrived at EDR: 09/05/2008	Telephone: 214-665-6597
Date Made Active in Reports: 09/23/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 3	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
A listing of underground storage tank locations on Indian Land.

Date of Government Version: 03/12/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 03/14/2008	Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
No description is available for this data

Date of Government Version: 06/06/2008	Source: EPA Region 4
Date Data Arrived at EDR: 10/09/2008	Telephone: 404-562-9424
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 11/17/2008
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/16/2009
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R5: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 09/08/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 27

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 09/05/2008
Date Data Arrived at EDR: 09/05/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 18

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 06/01/2007
Date Data Arrived at EDR: 06/14/2007
Date Made Active in Reports: 07/05/2007
Number of Days to Update: 21

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 11/19/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 08/21/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 5

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 09/05/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 27

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

No description is available for this data

Date of Government Version: 08/22/2008
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 18

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
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: 04/02/2008
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 1
Telephone: 617-918-1102
Last EDR Contact: 10/20/2008
Next Scheduled EDR Contact: 01/19/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 10/20/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/19/2009
	Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/21/2008
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 12

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/20/2008
Next Scheduled EDR Contact: 01/19/2009
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 08/21/2008
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 08/29/2008
Number of Days to Update: 7

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/20/2008
Next Scheduled EDR Contact: 01/19/2009
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/03/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/18/2008
Number of Days to Update: 14

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/25/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 08/07/2008
Date Data Arrived at EDR: 08/08/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 26

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/03/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Semi-Annually

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/15/2008
Date Data Arrived at EDR: 09/16/2008
Date Made Active in Reports: 10/01/2008
Number of Days to Update: 15

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 10/14/2008
Next Scheduled EDR Contact: 01/12/2009
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/30/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 11/10/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 08/12/2008
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 12

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 11/13/2008
Next Scheduled EDR Contact: 02/09/2009
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/01/2008
Date Data Arrived at EDR: 03/20/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 25

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/08/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/14/2008
Date Data Arrived at EDR: 04/10/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 26

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 11/10/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 10/06/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 10

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 11/10/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 08/26/2008
Date Data Arrived at EDR: 09/11/2008
Date Made Active in Reports: 10/01/2008
Number of Days to Update: 20

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 11/10/2008
Next Scheduled EDR Contact: 02/02/2009
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/04/2008
Date Data Arrived at EDR: 08/29/2008
Date Made Active in Reports: 09/15/2008
Number of Days to Update: 17

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/27/2008
Next Scheduled EDR Contact: 01/26/2009
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 07/09/2008
Date Data Arrived at EDR: 07/09/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 22

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/22/2008
Next Scheduled EDR Contact: 12/22/2008
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/22/2008
Next Scheduled EDR Contact: 12/22/2008
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/02/2008
Date Data Arrived at EDR: 09/16/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 13

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/04/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/02/2008
Date Data Arrived at EDR: 09/17/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 12

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/04/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/02/2008	Source: Health Care Agency
Date Data Arrived at EDR: 09/25/2008	Telephone: 714-834-3446
Date Made Active in Reports: 10/01/2008	Last EDR Contact: 09/04/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 12/01/2008
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 07/23/2007	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 07/23/2007	Telephone: 530-889-7312
Date Made Active in Reports: 08/09/2007	Last EDR Contact: 09/15/2008
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/15/2008
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/15/2008	Source: Department of Public Health
Date Data Arrived at EDR: 07/18/2008	Telephone: 951-358-5055
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 10/14/2008
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/12/2009
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/02/2008	Source: Health Services Agency
Date Data Arrived at EDR: 07/29/2008	Telephone: 951-358-5055
Date Made Active in Reports: 08/29/2008	Last EDR Contact: 10/14/2008
Number of Days to Update: 31	Next Scheduled EDR Contact: 01/12/2009
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/08/2008	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/08/2008	Telephone: 916-875-8406
Date Made Active in Reports: 09/03/2008	Last EDR Contact: 10/29/2008
Number of Days to Update: 26	Next Scheduled EDR Contact: 01/26/2009
	Data Release Frequency: Quarterly

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/08/2008	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/08/2008	Telephone: 916-875-8406
Date Made Active in Reports: 09/03/2008	Last EDR Contact: 10/29/2008
Number of Days to Update: 26	Next Scheduled EDR Contact: 01/26/2009
	Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/01/2008
Date Data Arrived at EDR: 10/06/2008
Date Made Active in Reports: 10/13/2008
Number of Days to Update: 7

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/02/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/29/2008
Next Scheduled EDR Contact: 12/29/2008
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 08/01/2007
Date Data Arrived at EDR: 02/05/2008
Date Made Active in Reports: 02/14/2008
Number of Days to Update: 9

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 06/04/2008
Date Data Arrived at EDR: 07/25/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 6

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 09/30/2008
Next Scheduled EDR Contact: 12/29/2008
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight 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: 09/15/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008	Source: Department of Public Health
Date Data Arrived at EDR: 09/19/2008	Telephone: 415-252-3920
Date Made Active in Reports: 10/01/2008	Last EDR Contact: 09/15/2008
Number of Days to Update: 12	Next Scheduled EDR Contact: 12/01/2008
	Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 08/26/2008	Source: Environmental Health Department
Date Data Arrived at EDR: 08/27/2008	Telephone: N/A
Date Made Active in Reports: 09/15/2008	Last EDR Contact: 10/14/2008
Number of Days to Update: 19	Next Scheduled EDR Contact: 01/12/2009
	Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/18/2008	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 06/18/2008	Telephone: 650-363-1921
Date Made Active in Reports: 06/20/2008	Last EDR Contact: 10/06/2008
Number of Days to Update: 2	Next Scheduled EDR Contact: 01/05/2009
	Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 10/06/2008	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 10/07/2008	Telephone: 650-363-1921
Date Made Active in Reports: 10/13/2008	Last EDR Contact: 10/06/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 01/05/2009
	Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

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	Source: Santa Clara Valley Water District
Date Data Arrived at EDR: 03/30/2005	Telephone: 408-265-2600
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 09/22/2008
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/22/2008
	Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 09/24/2008	Source: Department of Environmental Health
Date Data Arrived at EDR: 09/25/2008	Telephone: 408-918-3417
Date Made Active in Reports: 09/29/2008	Last EDR Contact: 09/22/2008
Number of Days to Update: 4	Next Scheduled EDR Contact: 12/22/2008
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 09/02/2008	Source: City of San Jose Fire Department
Date Data Arrived at EDR: 09/04/2008	Telephone: 408-277-4659
Date Made Active in Reports: 09/18/2008	Last EDR Contact: 09/02/2008
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/01/2008
	Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 09/22/2008	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 10/06/2008	Telephone: 707-784-6770
Date Made Active in Reports: 10/13/2008	Last EDR Contact: 09/22/2008
Number of Days to Update: 7	Next Scheduled EDR Contact: 12/22/2008
	Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 06/22/2008	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 07/03/2008	Telephone: 707-784-6770
Date Made Active in Reports: 07/25/2008	Last EDR Contact: 09/22/2008
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/22/2008
	Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2008	Source: Department of Health Services
Date Data Arrived at EDR: 07/22/2008	Telephone: 707-565-6565
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 10/20/2008
Number of Days to Update: 9	Next Scheduled EDR Contact: 01/19/2009
	Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 05/04/2007	Source: Sutter County Department of Agriculture
Date Data Arrived at EDR: 05/04/2007	Telephone: 530-822-7500
Date Made Active in Reports: 05/24/2007	Last EDR Contact: 09/29/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 12/29/2008
	Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/10/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/18/2008
Number of Days to Update: 14

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/17/2008
Next Scheduled EDR Contact: 02/16/2009
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/09/2008
Next Scheduled EDR Contact: 09/08/2008
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 10/01/2008
Date Data Arrived at EDR: 10/08/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 8

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/08/2008
Next Scheduled EDR Contact: 01/05/2009
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 08/11/2008
Date Data Arrived at EDR: 08/29/2008
Date Made Active in Reports: 09/15/2008
Number of Days to Update: 17

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 11/10/2008
Next Scheduled EDR Contact: 01/12/2009
Data Release Frequency: Annually

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: 12/31/2005
Date Data Arrived at EDR: 06/15/2007
Date Made Active in Reports: 08/20/2007
Number of Days to Update: 66

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 09/12/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 09/30/2007
Date Data Arrived at EDR: 12/04/2007
Date Made Active in Reports: 12/31/2007
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 11/07/2008
Next Scheduled EDR Contact: 02/02/2009
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: 07/23/2008
Date Data Arrived at EDR: 08/28/2008
Date Made Active in Reports: 09/11/2008
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/28/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 09/11/2008
Date Made Active in Reports: 10/02/2008
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/08/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 10/07/2008
Date Data Arrived at EDR: 10/10/2008
Date Made Active in Reports: 10/28/2008
Number of Days to Update: 18

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/15/2008
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/22/2008
Date Made Active in Reports: 09/08/2008
Number of Days to Update: 17

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/06/2008
Next Scheduled EDR Contact: 01/05/2009
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SITE 7
1.25 MILES SW OF STATION ROAD/TUPMAN ROAD
BUTTONWILLOW, CA 93206

TARGET PROPERTY COORDINATES

Latitude (North):	35.32690 - 35° 19' 36.8"
Longitude (West):	119.386 - 119° 23' 9.6"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	283117.0
UTM Y (Meters):	3911709.8
Elevation:	288 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	35119-C4 EAST ELK HILLS, CA
Most Recent Revision:	1973
East Map:	35119-C3 TUPMAN, CA
Most Recent Revision:	1973

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

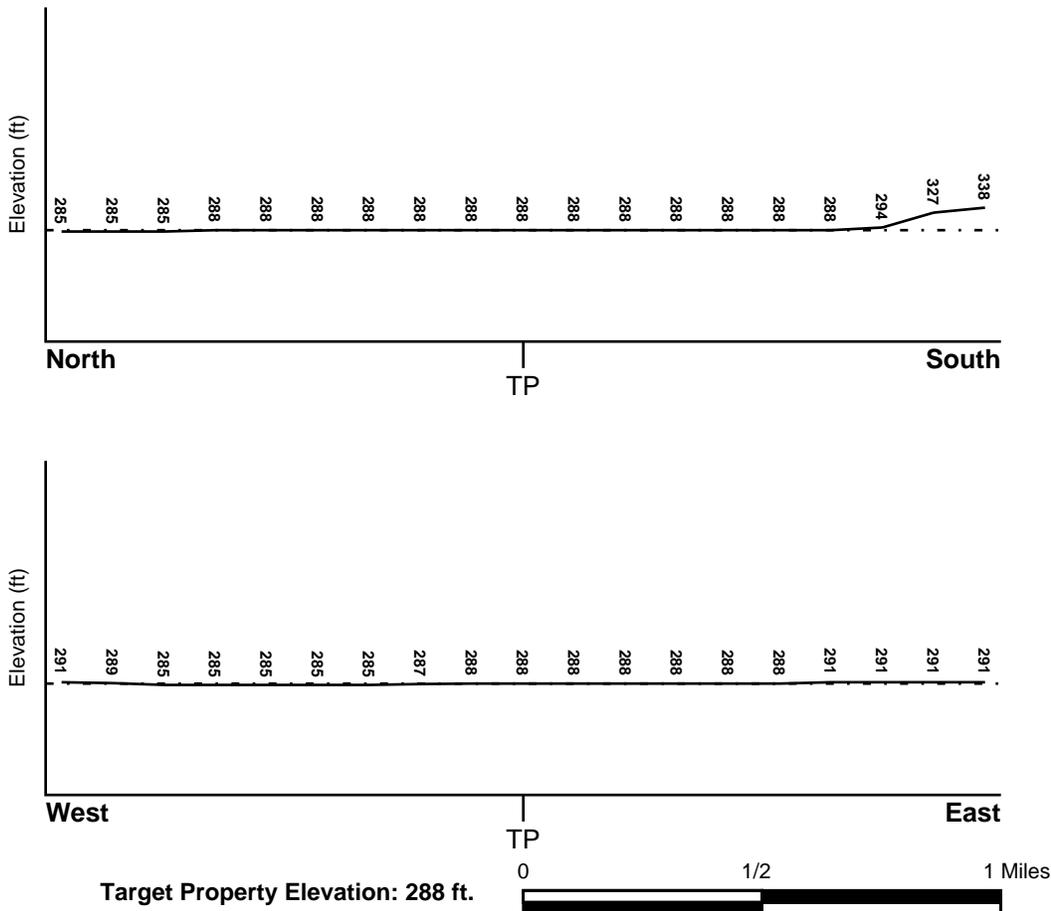
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> KERN, CA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	0600750975B
Additional Panels in search area:	Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> EAST ELK HILLS	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

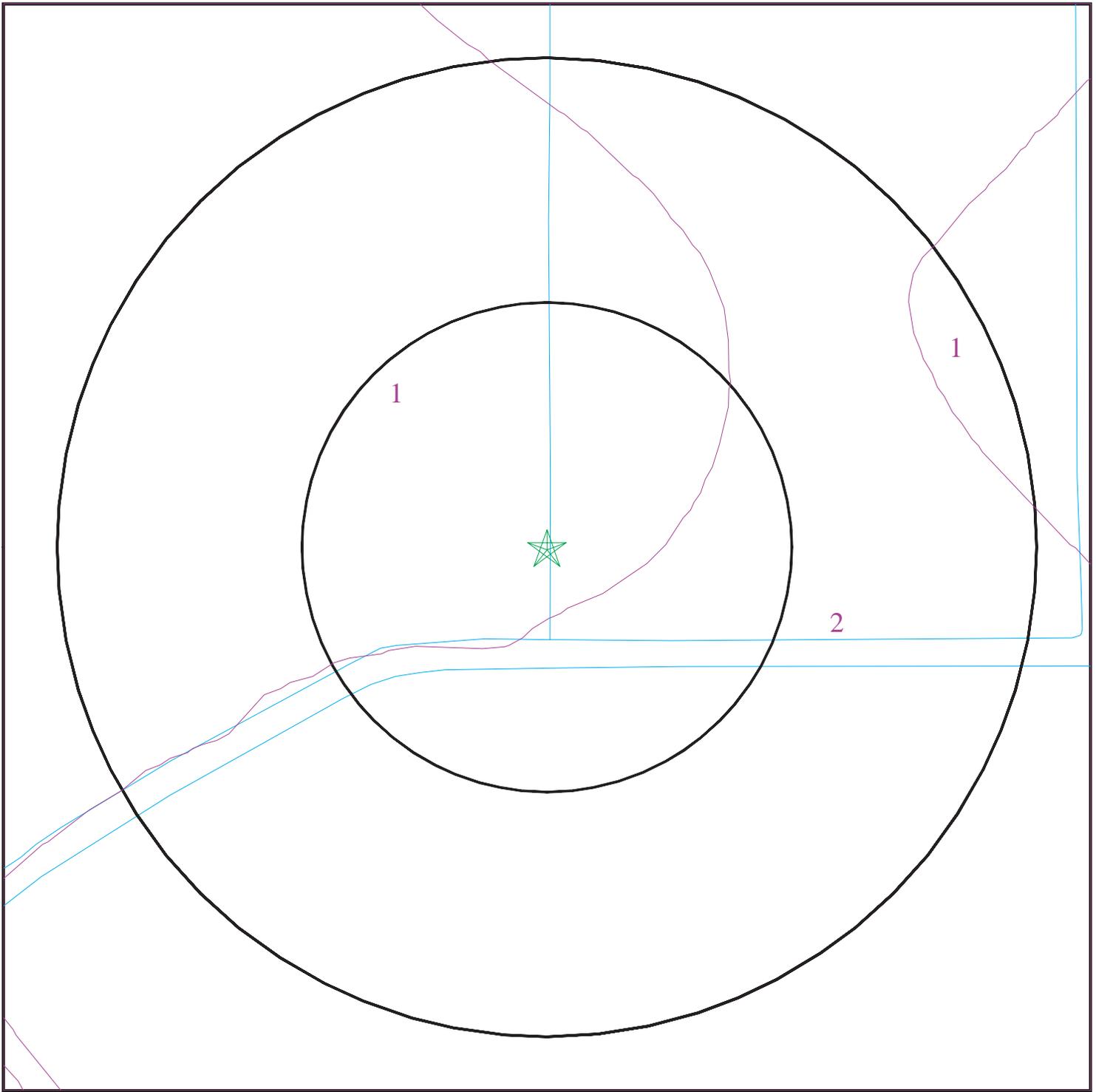
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 2367645.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Site 7
ADDRESS: 1.25 Miles SW of Station Road/Tupman Road
Buttonwillow CA 93206
LAT/LONG: 35.3269 / 119.3860

CLIENT: URS Corporation
CONTACT: Cindy Kyle-Fischer
INQUIRY #: 2367645.2s
DATE: November 20, 2008 11:51 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: LOKERN

Soil Surface Texture:
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	7 inches	48 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9
3	48 inches	66 inches		Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: BUTTONWILLOW

Soil Surface Texture:
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	27 inches		Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
2	27 inches	55 inches		Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
3	55 inches	64 inches		Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3175401	1/8 - 1/4 Mile WSW
2	USGS3175386	1/4 - 1/2 Mile WSW
3	USGS3175424	1/4 - 1/2 Mile NNW
A4	USGS3175402	1/2 - 1 Mile West
6	USGS3175411	1/2 - 1 Mile ENE
B9	USGS3175428	1/2 - 1 Mile NE
C10	USGS3175363	1/2 - 1 Mile SSE
D13	USGS3175371	1/2 - 1 Mile SE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A5	CADW20000021736	1/2 - 1 Mile West
B7	CADW20000021830	1/2 - 1 Mile NE
C8	CADW20000021622	1/2 - 1 Mile SSE
D11	CADW20000021650	1/2 - 1 Mile SE
12	CADW20000021667	1/2 - 1 Mile ESE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

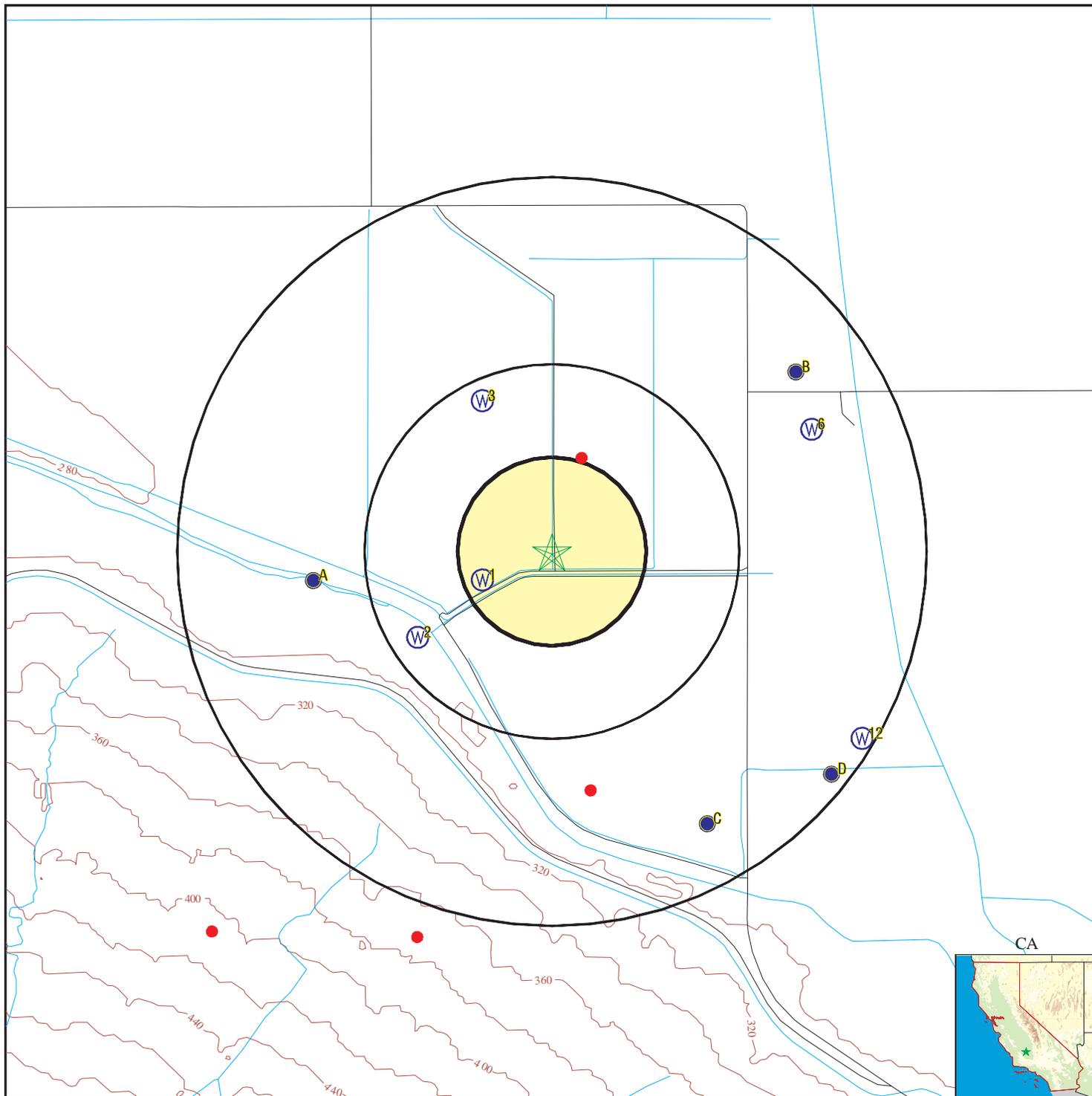
DISTANCE
FROM TP (Miles)

- 1/4 - 1/2 Mile NNE
- 2 - 3 Miles ESE
- 1 - 2 Miles SSW
- 2 - 3 Miles South
- 2 - 3 Miles South
- 2 - 3 Miles South

DISTANCE
FROM TP (Miles)

- 1/2 - 1 Mile South
- 1 - 2 Miles SW
- 2 - 3 Miles SE
- 2 - 3 Miles SSW
- 2 - 3 Miles South

PHYSICAL SETTING SOURCE MAP - 2367645.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Site 7
ADDRESS: 1.25 Miles SW of Station Road/Tupman Road
 Buttonwillow CA 93206
LAT/LONG: 35.3269 / 119.3860

CLIENT: URS Corporation
CONTACT: Cindy Kyle-Fischer
INQUIRY #: 2367645.2s
DATE: November 20, 2008 11:51 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
WSW
1/8 - 1/4 Mile
Lower

FED USGS USGS3175401

Agency cd:	USGS	Site no:	351933119231801
Site name:	031S024E10P002M		
Latitude:	351933		
Longitude:	1192318	Dec lat:	35.32579584
Dec lon:	-119.38928152	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	029
Country:	US	Land net:	S10 T31S R24E M
Location map:	KERN RIVER F2	Map scale:	63360
Altitude:	300.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

2
WSW
1/4 - 1/2 Mile
Higher

FED USGS USGS3175386

Agency cd:	USGS	Site no:	351925119232901
Site name:	030S024E15D001M		
Latitude:	351925		
Longitude:	1192329	Dec lat:	35.32357368
Dec lon:	-119.3923372	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	029
Country:	US	Land net:	SES15 T30S R24E M
Location map:	KERN RIVER F2	Map scale:	63360

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1954
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	502	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

3

NNW

1/4 - 1/2 Mile

Lower

FED USGS

USGS3175424

Agency cd:	USGS	Site no:	351958119231801
Site name:	030S024E10F001M		
Latitude:	351958		
Longitude:	1192318	Dec lat:	35.33274015
Dec lon:	-119.38928149	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	029
Country:	US	Land net:	S10 T30S R24E M
Location map:	KERN RIVER F2	Map scale:	63360
Altitude:	286.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: Not Reported
 Water quality data end date: Not Reported
 Ground water data begin date: Not Reported
 Ground water data count: Not Reported

Water quality data begin date: Not Reported
 Water quality data count: Not Reported
 Ground water data end date: Not Reported

Ground-water levels, Number of Measurements: 0

A4
West
1/2 - 1 Mile
Lower

FED USGS USGS3175402

Agency cd:	USGS	Site no:	351933119234501
Site name:	030S024E09R001M		
Latitude:	351933		
Longitude:	1192345	Dec lat:	35.32579587
Dec lon:	-119.3967818	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	029
Country:	US	Land net:	S09 T30S R24E M
Location map:	KERN RIVER F2	Map scale:	63360
Altitude:	285.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1957
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	522	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data count:	0		
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0		
Water quality data begin date:	0000-00-00	Water quality data end date:	0000-00-00
Water quality data count:	0		
Ground water data begin date:	1961-02-20	Ground water data end date:	1961-02-20
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel

1961-02-20	70.00	

A5
West
1/2 - 1 Mile
Higher

CA WELLS CADW20000021736

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: 119.3968
 Latitude: 35.3258
 Stwellno: 30S24E09R001M
 Districtco: 3
 Welluseco: Z
 Countycode: 15
 Gwcode: 502214
 Site id: CADW20000021736

6
ENE
1/2 - 1 Mile
Higher

FED USGS USGS3175411

Agency cd:	USGS	Site no:	351954119222201
Site name:	030S024E11L001M		
Latitude:	351954		
Longitude:	1192222	Dec lat:	35.33162899
Dec lon:	-119.37372536	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	029
Country:	US	Land net:	S11 T30S R24E M
Location map:	KERN RIVER F2	Map scale:	63360
Altitude:	488.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

B7
NE
1/2 - 1 Mile
Higher

CA WELLS CADW20000021830

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: 119.374
 Latitude: 35.3339
 Stwellno: 30S24E11E001M
 Districtco: 3
 Welluseco: Z
 Countycode: 15
 Gwcode: 502214
 Site id: CADW20000021830

C8
SSE
1/2 - 1 Mile
Higher

CA WELLS CADW20000021622

Longitude: 119.3782
 Latitude: 35.3164
 Stwellno: 30S24E15J001M
 Districtco: 3
 Welluseco: Z
 Countycode: 15
 Gwcode: 502214
 Site id: CADW20000021622

B9
NE
1/2 - 1 Mile
Higher

FED USGS USGS3175428

Agency cd:	USGS	Site no:	352002119222301
Site name:	030S024E11E001M		
Latitude:	352002		
Longitude:	1192223	Dec lat:	35.33385117
Dec lon:	-119.37400313	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	029
Country:	US	Land net:	S11 T30S R24E M
Location map:	KERN RIVER F2	Map scale:	63360
Altitude:	285.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0	Water quality data begin date: 0000-00-00
Water quality data end date: 0000-00-00	Water quality data count: 0
Ground water data begin date: 1961-02-19	Ground water data end date: 1961-02-19
Ground water data count: 1	

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1961-02-19	67.00	

C10
SSE
1/2 - 1 Mile
Higher

FED USGS USGS3175363

Agency cd: USGS	Site no: 351859119223801
Site name: 030S024E15J001M	
Latitude: 351859	
Longitude: 1192238	Dec lat: 35.31635154
Dec lon: -119.37817005	Coor meth: M
Coor accr: S	Latlong datum: NAD27
Dec latlong datum: NAD83	District: 06
State: 06	County: 029
Country: US	Land net: S15 T30S R24E M
Location map: KERN RIVER F2	Map scale: 63360
Altitude: 287.00	
Altitude method: Interpolated from topographic map	
Altitude accuracy: 5	
Altitude datum: National Geodetic Vertical Datum of 1929	
Hydrologic: TulareBuena Vista Lakes. California. Area = 8510 sq.mi.	
Topographic: Not Reported	
Site type: Ground-water other than Spring	Date construction: 1954
Date inventoried: Not Reported	Mean greenwich time offset: PST
Local standard time flag: Y	
Type of ground water site: Single well, other than collector or Ranney type	
Aquifer Type: Not Reported	
Aquifer: Not Reported	
Well depth: 504	Hole depth: Not Reported
Source of depth data: Not Reported	
Project number: Not Reported	
Real time data flag: 0	Daily flow data begin date: 0000-00-00
Daily flow data end date: 0000-00-00	Daily flow data count: 0
Peak flow data begin date: 0000-00-00	Peak flow data end date: 0000-00-00
Peak flow data count: 0	Water quality data begin date: 0000-00-00
Water quality data end date: 0000-00-00	Water quality data count: 0
Ground water data begin date: 1961-02-19	Ground water data end date: 1961-02-19
Ground water data count: 1	

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1961-02-19	51.00	

D11
SE
1/2 - 1 Mile
Higher

CA WELLS CADW20000021650

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: 119.3723
 Latitude: 35.3183
 Stwellno: 30S24E14F001M
 Districtco: 3
 Welluseco: Z
 Countycode: 15
 Gwcode: 502214
 Site id: CADW20000021650

12
ESE
1/2 - 1 Mile
Higher

CA WELLS CADW20000021667

Longitude: 119.3704
 Latitude: 35.3197
 Stwellno: 30S14E14F001M
 Districtco: 3
 Welluseco: Z
 Countycode: 15
 Gwcode: 502214
 Site id: CADW20000021667

D13
SE
1/2 - 1 Mile
Higher

FED USGS USGS3175371

Agency cd:	USGS	Site no:	351906119221701
Site name:	030S024E14F001M		
Latitude:	351906		
Longitude:	1192217	Dec lat:	35.31829592
Dec lon:	-119.37233649	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	029
Country:	US	Land net:	S14 T30S R24E M
Location map:	KERN RIVER F2	Map scale:	63360
Altitude:	291.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	TulareBuena Vista Lakes. California. Area = 8510 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1933
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	593	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
		Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0
Water quality data end date: 0000-00-00
Ground water data begin date: 1960-10-04
Ground water data count: 1

Water quality data begin date: 0000-00-00
Water quality data count: 0
Ground water data end date: 1960-10-04

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1960-10-04	35.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

NNE
1/4 - 1/2 Mile

OIL_GAS CAOG40000103154

Apinumber:	02952932	Operator:	Quintana Production Co.
Lease:	Union-Gamay	Well no:	56X-10
Field:	Not Reported	Cagasoil m2 area:	Not Reported
Map:	421		
Status:	Plugged and abandoned-dry hole		
Source:	hud		
Latitude:	35.330558		
Longitude:	-119.38365		
Td:	2015		
Sec:	10		
Twn:	30S	Rge:	24E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	05/30/1921 00:00:00
Abanddate:	11/18/1950 00:00:00	Comments:	Not Reported
District:	4	Site id:	CAOG40000103154

South
1/2 - 1 Mile

OIL_GAS CAOG40000100783

Apinumber:	02937474	Operator:	E. A. Bender, Opr.
Lease:	Palm Farms	Well no:	55
Field:	Not Reported	Cagasoil m2 area:	Not Reported
Map:	421		
Status:	Plugged and abandoned-dry hole		
Source:	hud		
Latitude:	35.317681		
Longitude:	-119.383228		
Td:	11315		
Sec:	15		
Twn:	30S	Rge:	24E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	05/30/1921 00:00:00
Abanddate:	11/18/1950 00:00:00	Comments:	Not Reported
District:	4	Site id:	CAOG40000100783

ESE
2 - 3 Miles

OIL_GAS CAOG40000100563

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Apinumber:	02972605	Operator:	Quintana Petroleum Corp.
Lease:	Tenneco-Gamay	Well no:	1-13
Field:	Not Reported	Cagasoil m2 area:	Not Reported
Map:	413		
Status:	Plugged and abandoned oil		
Source:	hud		
Latitude:	35.316727		
Longitude:	-119.351775		
Td:	11300		
Sec:	13		
Twn:	30S	Rge:	24E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	05/30/1921 00:00:00
Abanddate:	11/18/1950 00:00:00	Comments:	FR SW COR 1980N 1980E
District:	4	Site id:	CAOG40000100563

SW 1 - 2 Miles

OIL_GAS CAOG40000099831

Apinumber:	02903684	Operator:	Chevron U.S.A. Inc.
Lease:	Baptist	Well no:	1
Field:	Not Reported	Cagasoil m2 area:	Not Reported
Map:	421		
Status:	Plugged and abandoned-dry hole		
Source:	hud		
Latitude:	35.31222		
Longitude:	-119.401109		
Td:	5909		
Sec:	16		
Twn:	30S	Rge:	24E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	05/30/1921 00:00:00
Abanddate:	11/18/1950 00:00:00	Comments:	Not Reported
District:	4	Site id:	CAOG40000099831

SSW 1 - 2 Miles

OIL_GAS CAOG40000099789

Apinumber:	02929611	Operator:	Section 15 Oil Co.
Lease:	Not Reported	Well no:	1
Field:	Not Reported	Cagasoil m2 area:	Not Reported
Map:	421		
Status:	Plugged and abandoned-dry hole		
Source:	hud		
Latitude:	35.312003		
Longitude:	-119.391416		
Td:	2510		
Sec:	15		
Twn:	30S	Rge:	24E

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bm:	MD	Spuddate:	05/30/1921 00:00:00
X coord:	0	Comments:	Not Reported
Y coord:	0	Site id:	CAOG40000099789
Zone:	Not Reported		
Abanddate:	11/18/1950 00:00:00		
District:	4		

SE
2 - 3 Miles

OIL_GAS CAOG40000098749

Apinumber:	02936613	Operator:	Spaulding Gas & Pet.
Lease:	Not Reported	Well no:	1
Field:	Not Reported	Cagasoil m2 area:	Not Reported
Map:	421		
Status:	Plugged and abandoned-dry hole		
Source:	hud		
Latitude:	35.304647		
Longitude:	-119.36219		
Td:	4235		
Sec:	23		
Twn:	30S	Rge:	24E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	05/30/1921 00:00:00
Abanddate:	11/18/1950 00:00:00	Comments:	Not Reported
District:	4	Site id:	CAOG40000098749

South
2 - 3 Miles

OIL_GAS CAOG40000097882

Apinumber:	02939933	Operator:	Interstate Oil Corp.
Lease:	Not Reported	Well no:	1
Field:	Elk Hills	Cagasoil m2 area:	Not Reported
Map:	421		
Status:	Plugged and abandoned-dry hole		
Source:	opr		
Latitude:	35.29744		
Longitude:	-119.38387		
Td:	5166		
Sec:	22		
Twn:	30S	Rge:	24E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	05/30/1921 00:00:00
Abanddate:	11/18/1950 00:00:00	Comments:	Not Reported
District:	4	Site id:	CAOG40000097882

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

**SSW
2 - 3 Miles**

OIL_GAS CAOG40000097875

Apinumber:	02939925	Operator:	Roy N. Bishop Trustee
Lease:	Not Reported	Well no:	1
Field:	Elk Hills	Cagasoil m2 area:	Not Reported
Map:	421		
Status:	Plugged and abandoned-dry hole		
Source:	opr		
Latitude:	35.29741		
Longitude:	-119.39274		
Td:	4497		
Sec:	22		
Twn:	30S	Rge:	24E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	05/30/1921 00:00:00
Abanddate:	11/18/1950 00:00:00	Comments:	Not Reported
District:	4	Site id:	CAOG40000097875

**South
2 - 3 Miles**

OIL_GAS CAOG40000097868

Apinumber:	02939935	Operator:	North Elk Oil
Lease:	Not Reported	Well no:	1
Field:	Elk Hills	Cagasoil m2 area:	Not Reported
Map:	421		
Status:	Plugged and abandoned-dry hole		
Source:	opr		
Latitude:	35.2974		
Longitude:	-119.38975		
Td:	4003		
Sec:	22		
Twn:	30S	Rge:	24E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	05/30/1921 00:00:00
Abanddate:	11/18/1950 00:00:00	Comments:	Not Reported
District:	4	Site id:	CAOG40000097868

**South
2 - 3 Miles**

OIL_GAS CAOG40000097867

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Apinumber:	02927322	Operator:	Occidental of Elk Hills, Inc.
Lease:	-22S	Well no:	1
Field:	Elk Hills	Cagasoil m2 area:	Not Reported
Map:	421		
Status:	Plugged and abandoned-dry hole		
Source:	opr		
Latitude:	35.2974		
Longitude:	-119.38837		
Td:	0		
Sec:	22		
Twn:	30S	Rge:	24E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	05/30/1921 00:00:00
Abanddate:	11/18/1950 00:00:00	Comments:	Not Reported
District:	4	Site id:	CAOG40000097867

**South
2 - 3 Miles**

OIL_GAS CAOG40000097863

Apinumber:	02927323	Operator:	Occidental of Elk Hills, Inc.
Lease:	Slater	Well no:	1
Field:	Elk Hills	Cagasoil m2 area:	Not Reported
Map:	421		
Status:	Plugged and abandoned-dry hole		
Source:	opr		
Latitude:	35.29738		
Longitude:	-119.38526		
Td:	5447		
Sec:	22		
Twn:	30S	Rge:	24E
Bm:	MD		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	05/30/1921 00:00:00
Abanddate:	11/18/1950 00:00:00	Comments:	Not Reported
District:	4	Site id:	CAOG40000097863

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
93206	1	0	0.00

Federal EPA Radon Zone for KERN County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 93206

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Site 7

1.25 Miles SW of Station Road/Tupman Road
Buttonwillow, CA 93206

Inquiry Number: 2367645.5

November 21, 2008

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography November 21, 2008

Target Property:

1.25 Miles SW of Station Road/Tupman Road

Buttonwillow, CA 93206

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1946	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1946	Fairchild
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1956	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1956	Robinson
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1967	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1967	Western
1975	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1975	NASA
1975	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1975	NASA
1975	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1975	NASA
1975	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1975	NASA
1984	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1984	USGS
1984	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1984	USGS
1984	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1984	USGS

<i>Year</i>	<i>Scale</i>	<i>Details</i>	<i>Source</i>
1984	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1984	USGS
1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS
1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS
1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS
1994	Aerial Photograph. Scale: 1"=1000'	Flight Year: 1994	USGS
2002	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2002	USGS
2002	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2002	USGS
2002	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2002	USGS
2002	Aerial Photograph. Scale: 1"=1000'	Flight Year: 2002	USGS
2005	Aerial Photograph. Scale: 1"=484'	Flight Year: 2005	EDR



INQUIRY #: 2367645.5

YEAR: 1946

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1946

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1946

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1946

| = 1000'



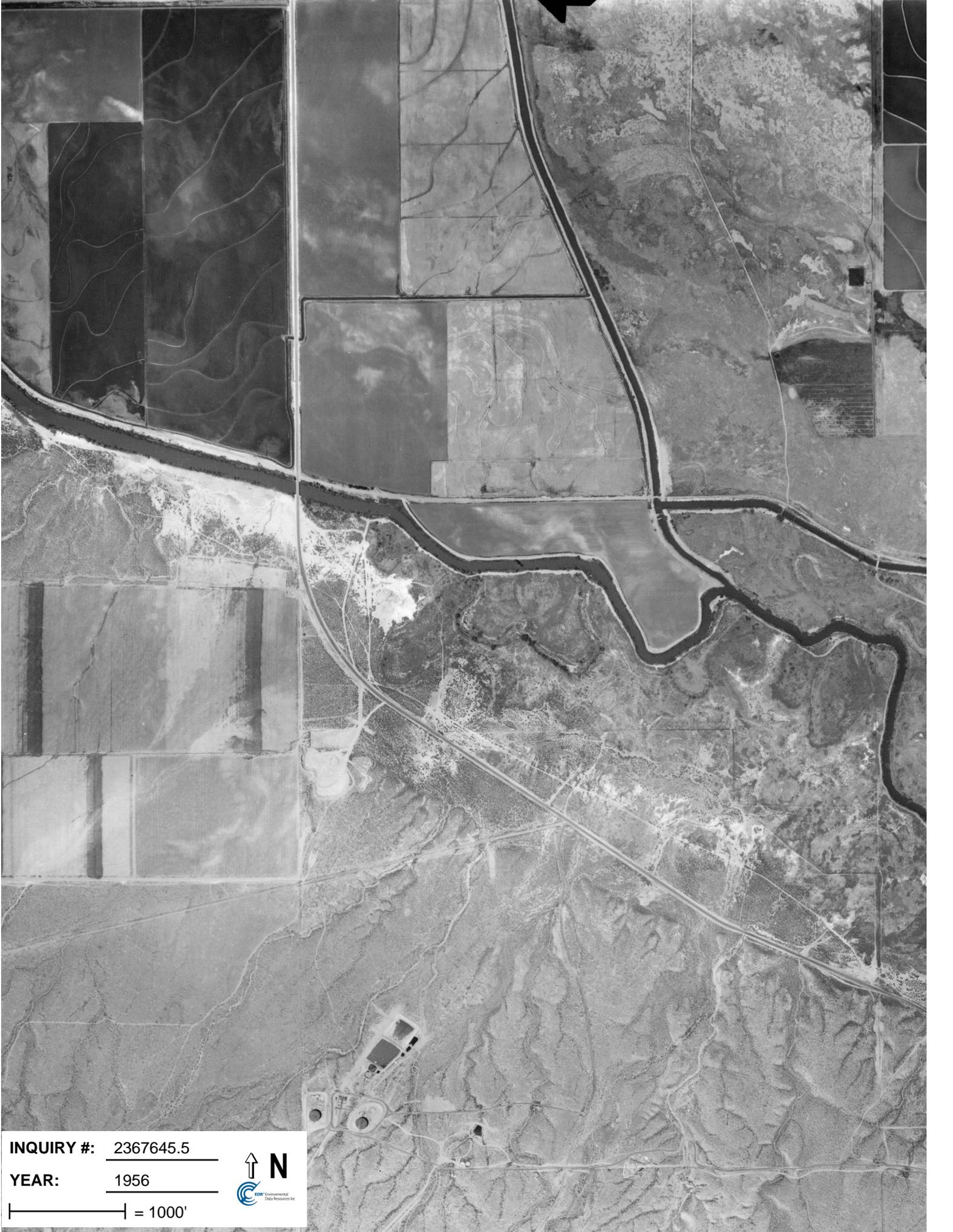
ABL-1E

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YEAR: 1956

| = 1000'



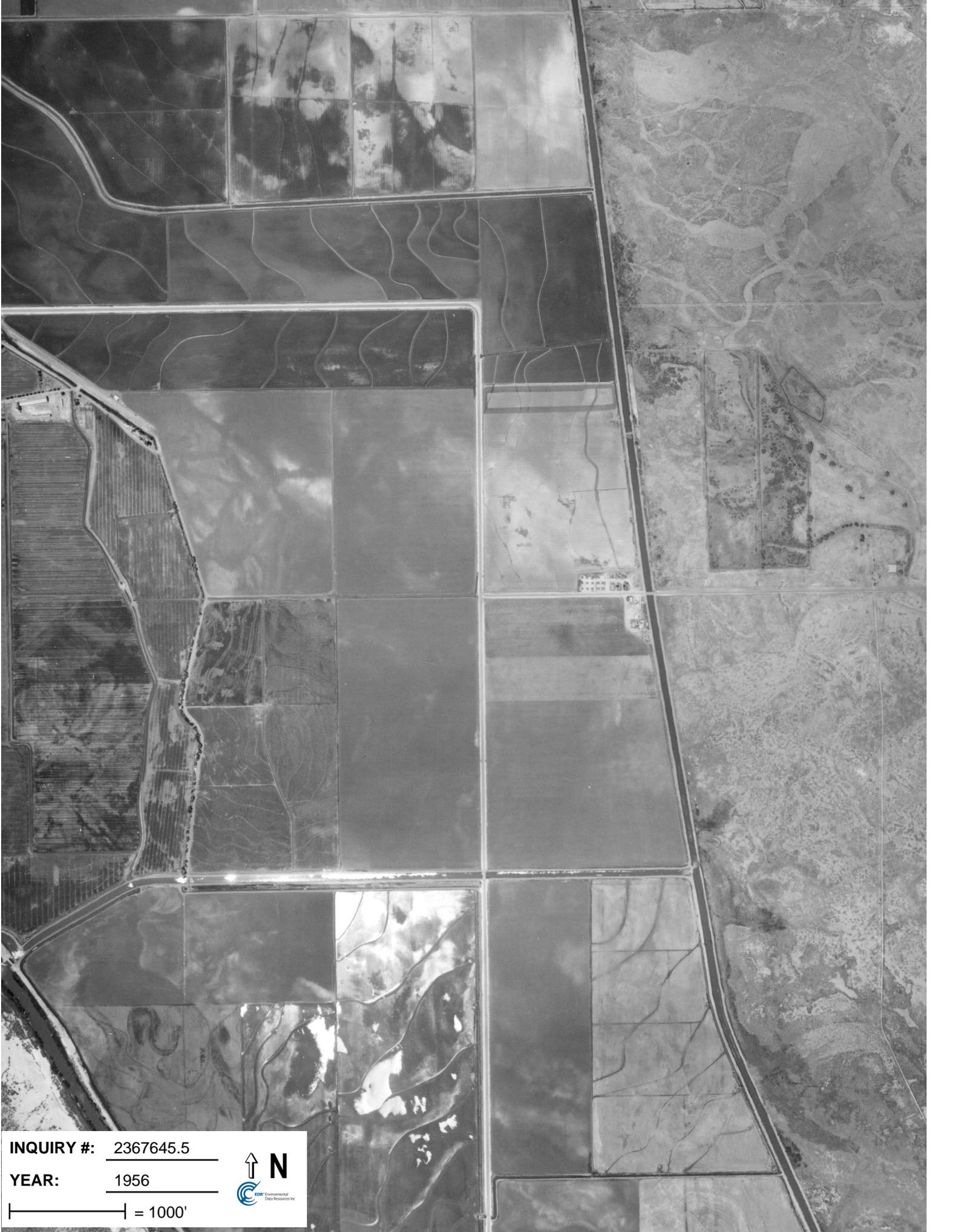


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YEAR: 1956

— = 1000'





INQUIRY #: 2367645.5

YEAR: 1956

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1956

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1967

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1967

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1967

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1967

— = 1000'





INQUIRY #: 2367645.5

YEAR: 1975

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1975

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1975

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INQUIRY #: 2367645.5

YEAR: 1975

| = 1000'



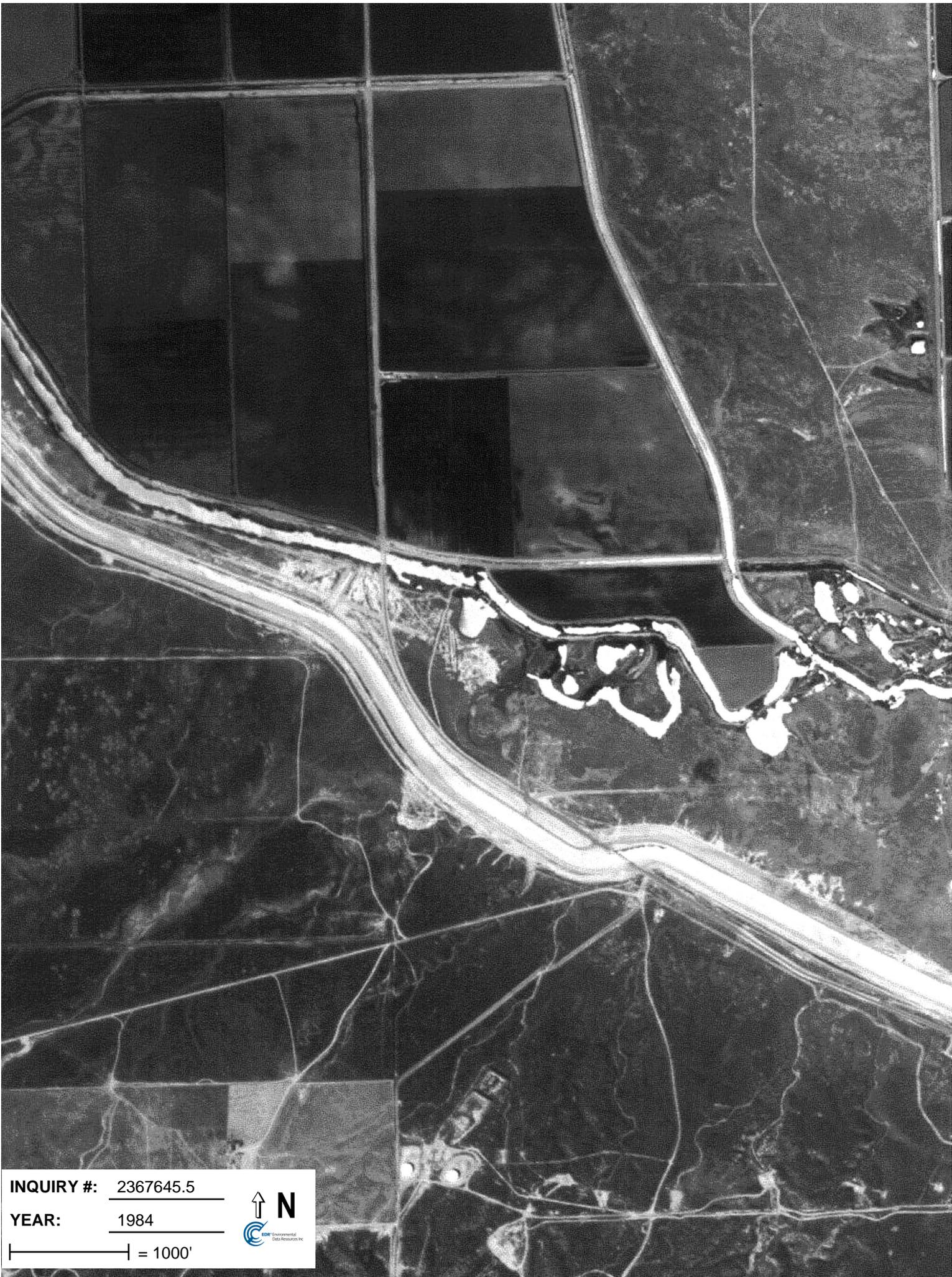


INQUIRY #: 2367645.5

YEAR: 1984

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1984

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1984

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1984

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1994

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1994

| = 1000'





INQUIRY #: 2367645.5

YEAR: 1994

 = 1000'





INQUIRY #: 2367645.5

YEAR: 1994

| = 1000'





INQUIRY #: 2367645.5

YEAR: 2002

| = 1000'





INQUIRY #: 2367645.5

YEAR: 2002

| = 1000'





INQUIRY #: 2367645.5

YEAR: 2002

| = 1000'





INQUIRY #: 2367645.5

YEAR: 2002

| = 1000'





INQUIRY #: 2367645.5

YEAR: 2005

| = 484'





Site 7

1.25 Miles SW of Station Road/Tupman Road
Buttonwillow, CA 93206

Inquiry Number: 2367645.4

November 20, 2008

The EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
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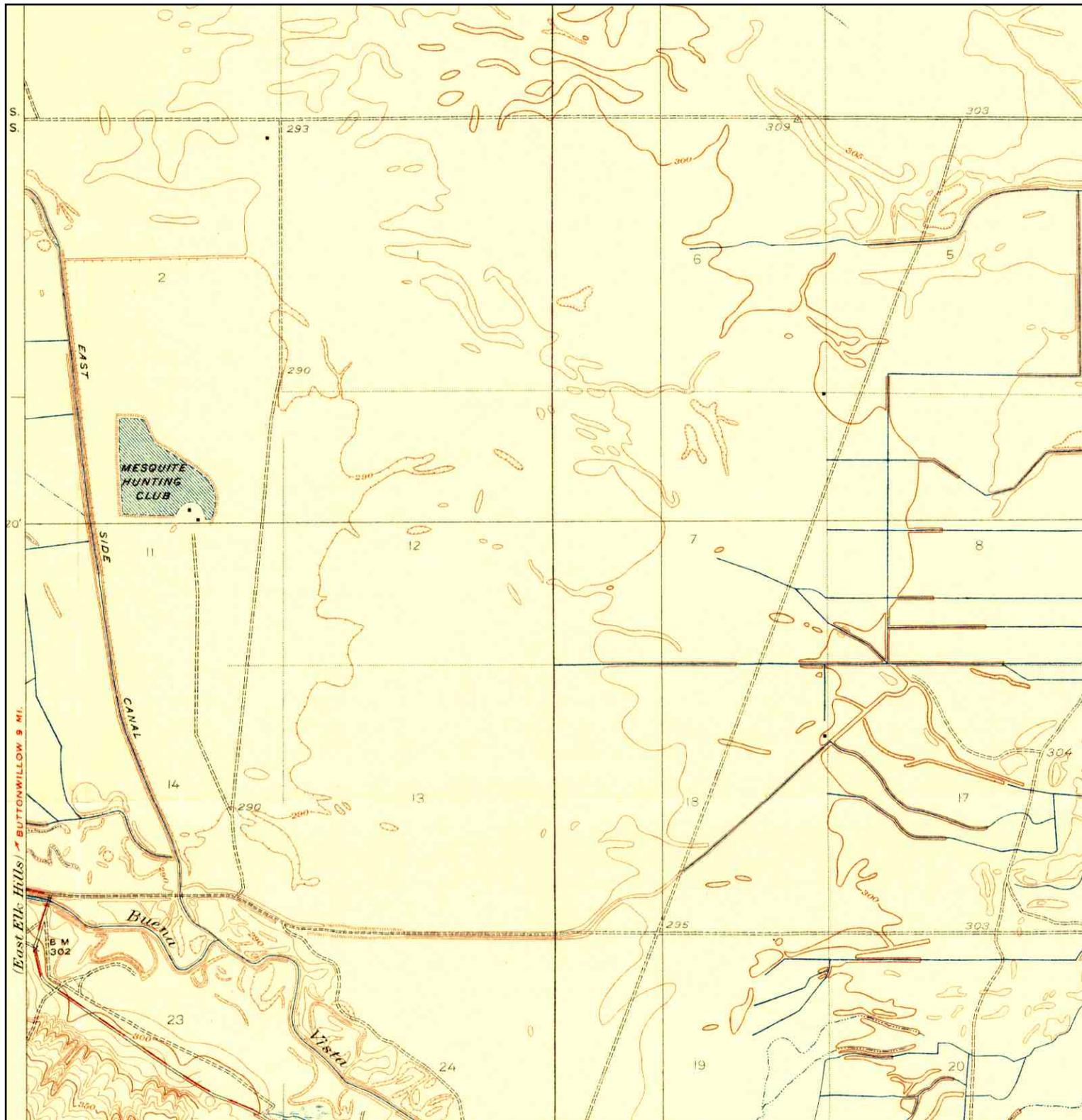
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Historical Topographic Map



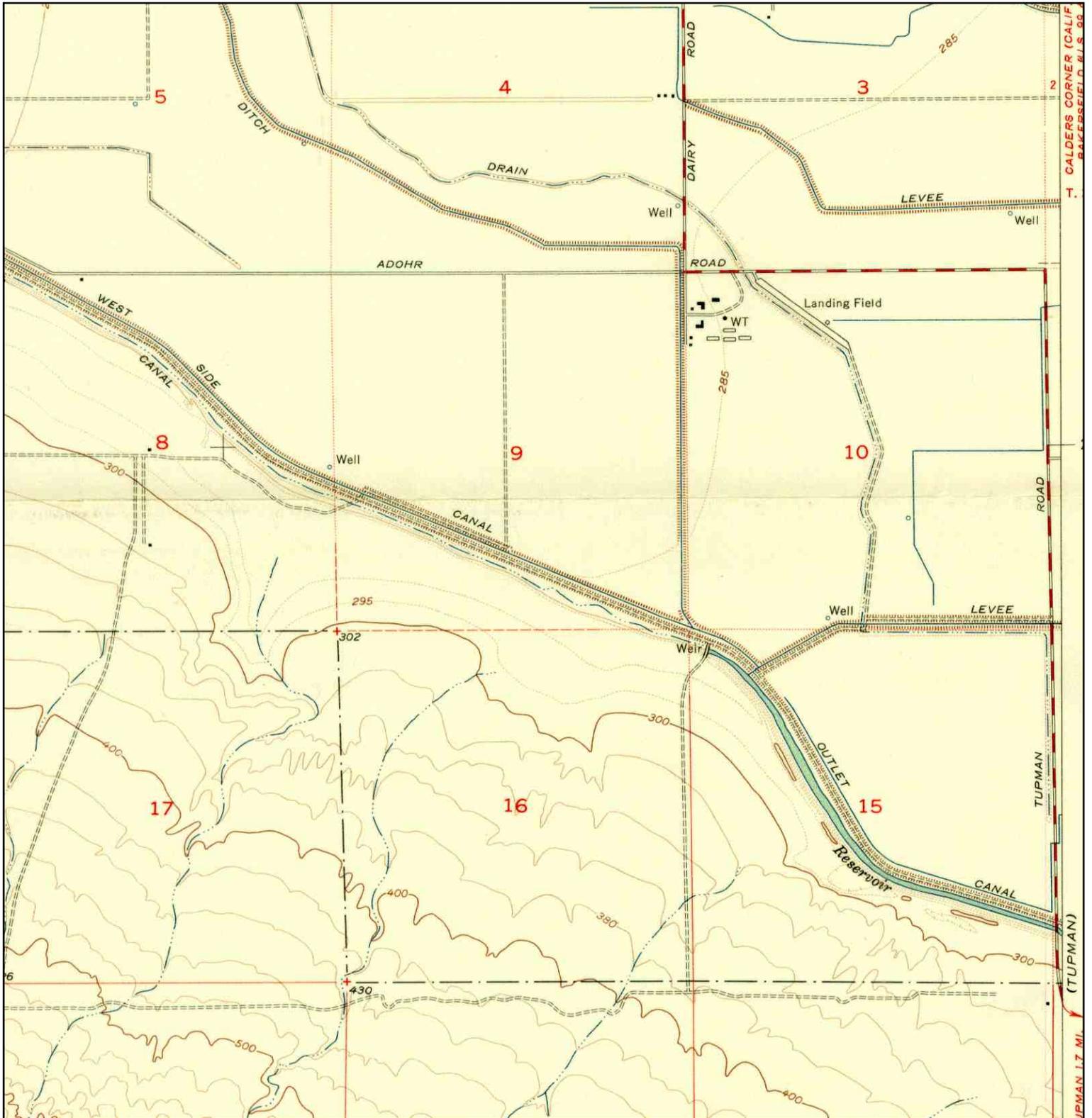
	TARGET QUAD NAME: BUENA VISTA LAKE MAP YEAR: 1912	SITE NAME: Site 7 ADDRESS: 1.25 Miles SW of Station Road/Tupman Road Buttonwillow, CA 93206	CLIENT: URS Corporation CONTACT: Cindy Kyle-Fischer INQUIRY#: 2367645.4 RESEARCH DATE: 11/20/2008
	SERIES: 30 SCALE: 1:125000	LAT/LONG: 35.3269 / 119.386	

Historical Topographic Map



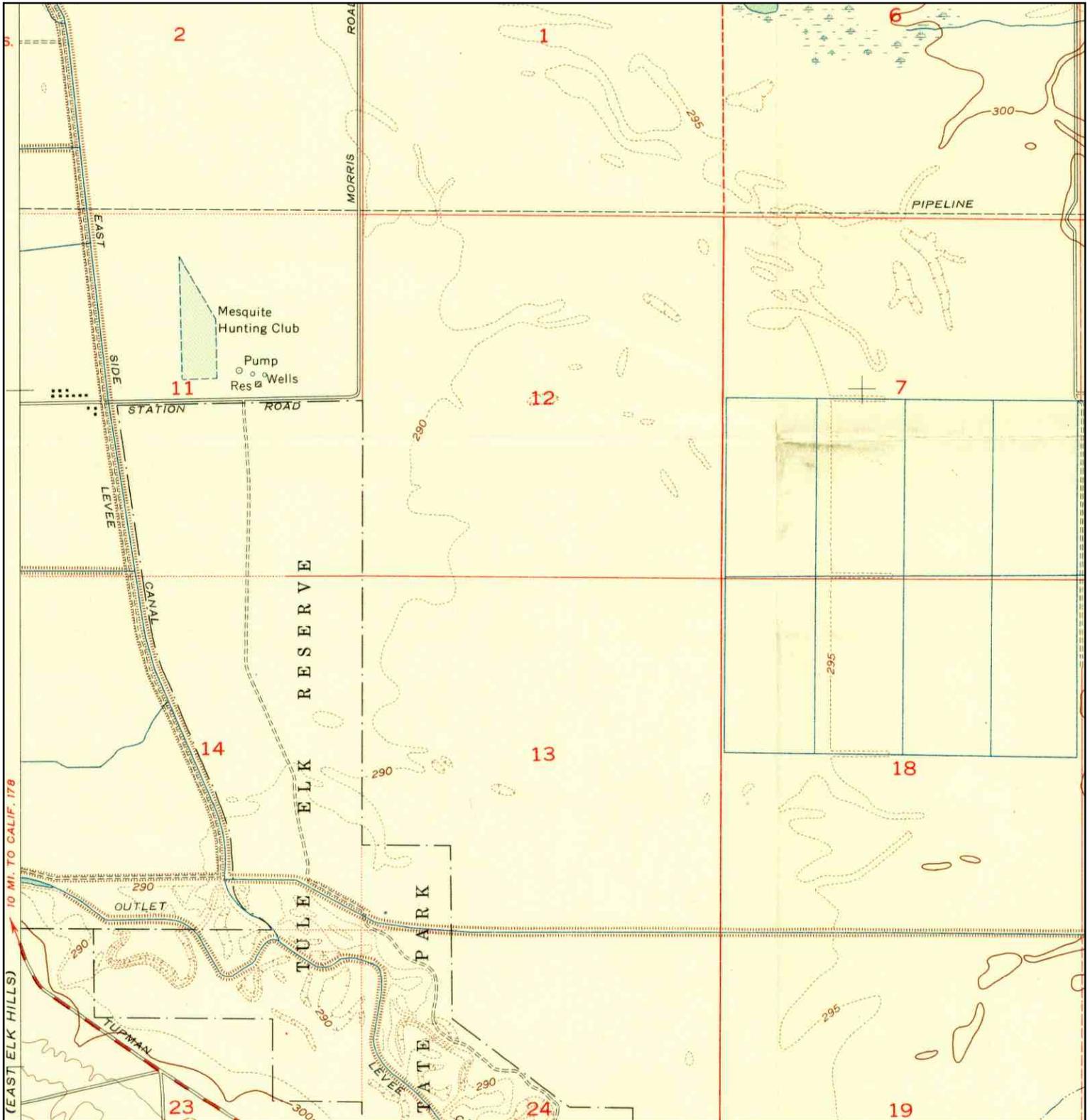
N 	TARGET QUAD NAME: TUPMAN MAP YEAR: 1933	SITE NAME: Site 7 ADDRESS: 1.25 Miles SW of Station Road/Tupman Road Buttonwillow, CA 93206	CLIENT: URS Corporation CONTACT: Cindy Kyle-Fischer INQUIRY#: 2367645.4 RESEARCH DATE: 11/20/2008
	SERIES: 7.5 SCALE: 1:31680	LAT/LONG: 35.3269 / 119.386	

Historical Topographic Map



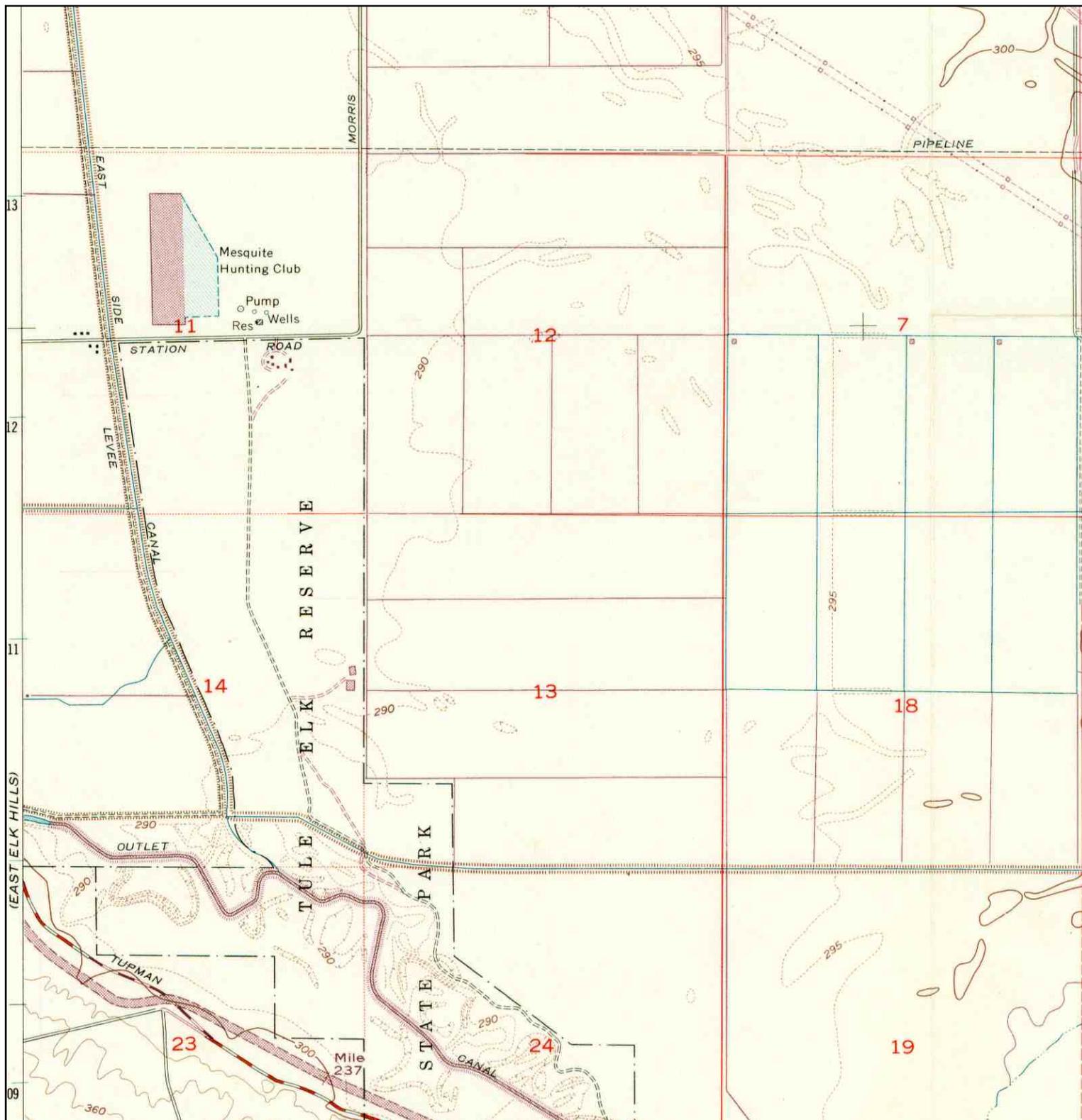
	TARGET QUAD NAME: EAST ELK HILLS MAP YEAR: 1954	SITE NAME: Site 7 ADDRESS: 1.25 Miles SW of Station Road/Tupman Road Buttonwillow, CA 93206	CLIENT: URS Corporation CONTACT: Cindy Kyle-Fischer INQUIRY#: 2367645.4
	SERIES: 7.5 SCALE: 1:24000	LAT/LONG: 35.3269 / 119.386	RESEARCH DATE: 11/20/2008

Historical Topographic Map



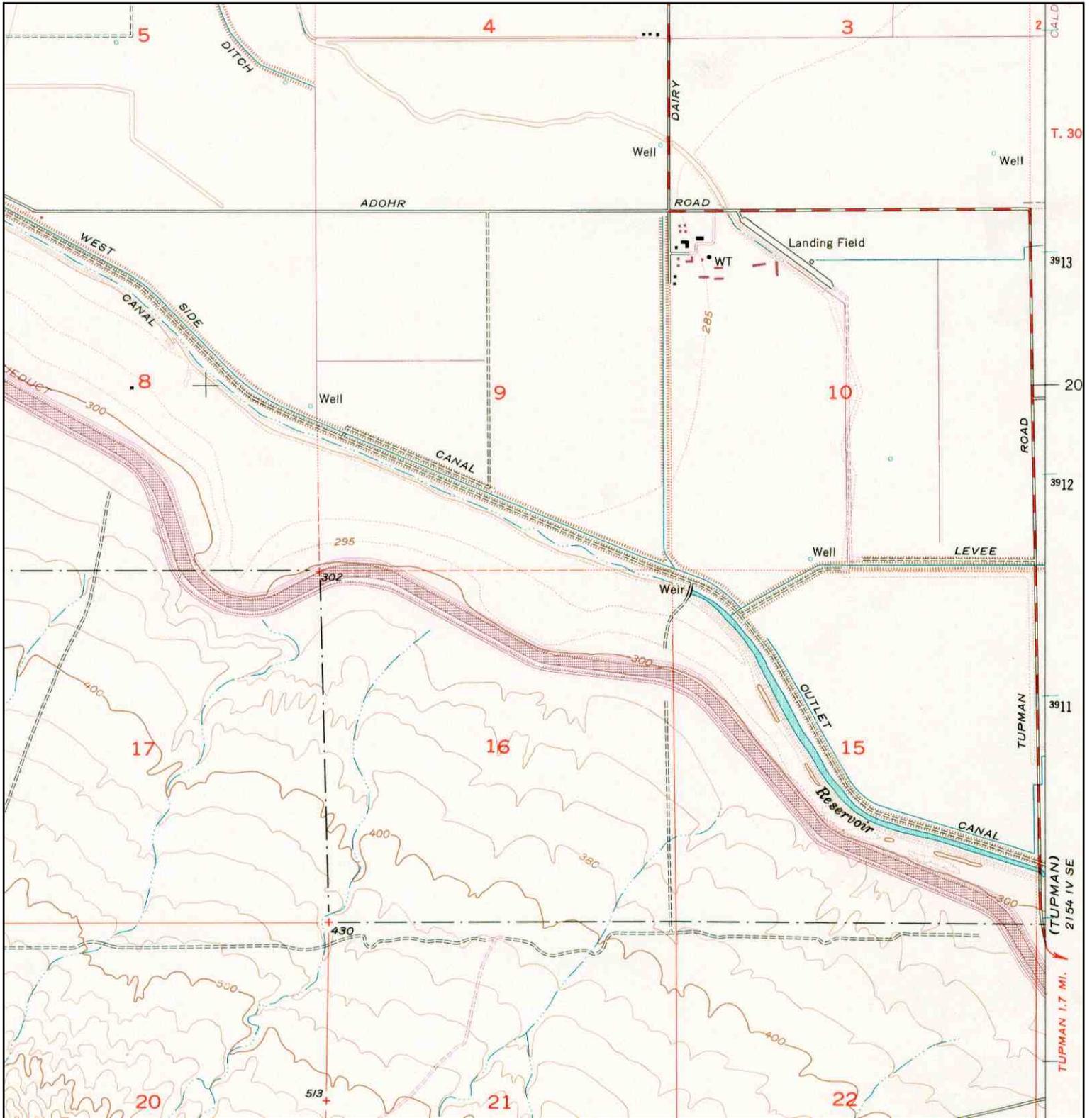
	TARGET QUAD NAME: TUPMAN MAP YEAR: 1954	SITE NAME: Site 7 ADDRESS: 1.25 Miles SW of Station Road/Tupman Road Buttonwillow, CA 93206	CLIENT: URS Corporation CONTACT: Cindy Kyle-Fischer INQUIRY#: 2367645.4 RESEARCH DATE: 11/20/2008
	SERIES: 7.5 SCALE: 1:24000	LAT/LONG: 35.3269 / 119.386	

Historical Topographic Map



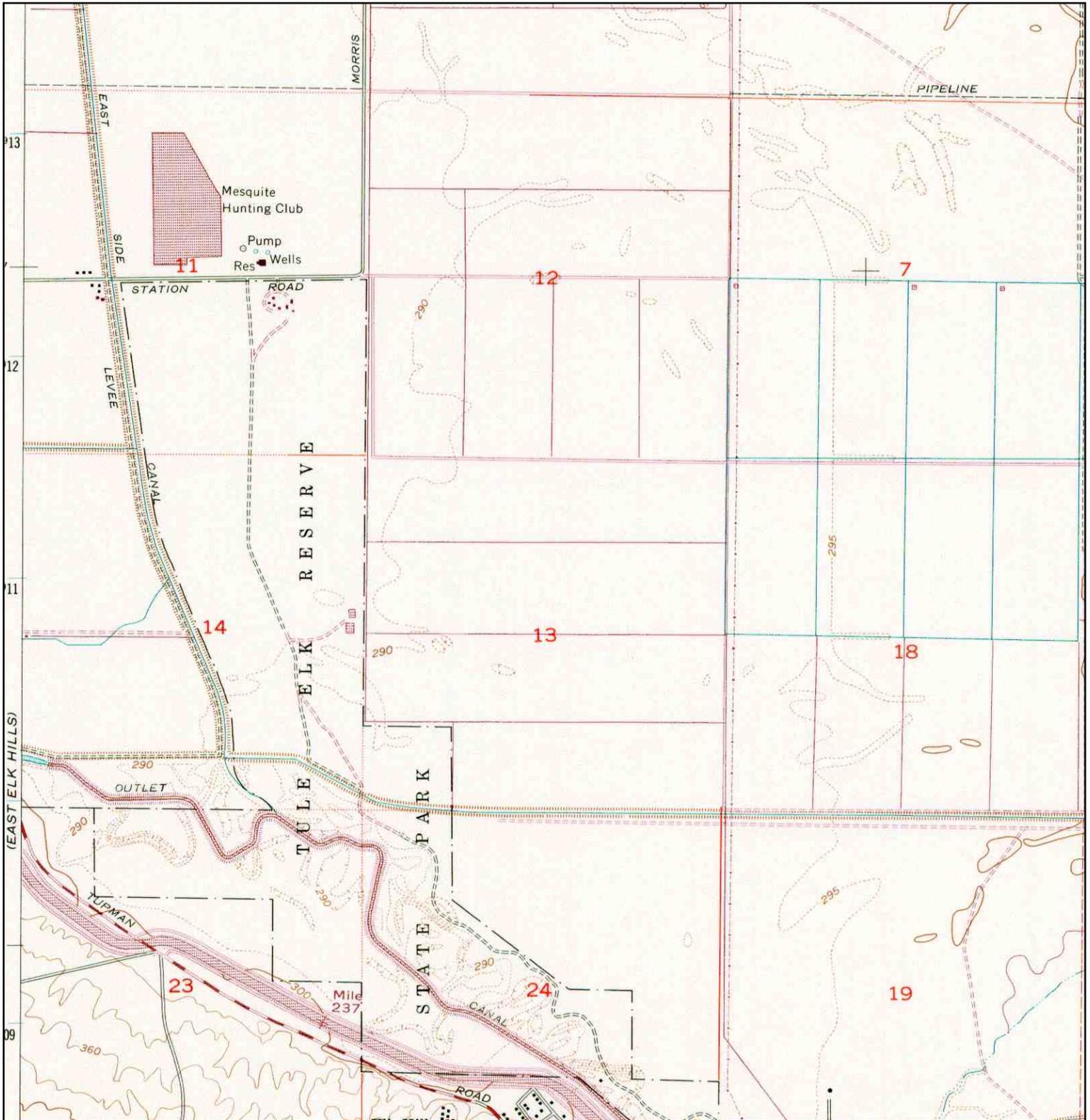
	TARGET QUAD	SITE NAME: Site 7	CLIENT: URS Corporation
	NAME: TUPMAN	ADDRESS: 1.25 Miles SW of Station Road/Tupman Road	CONTACT: Cindy Kyle-Fischer
	MAP YEAR: 1968	Buttonwillow, CA 93206	INQUIRY#: 2367645.4
	PHOTOREVISED FROM: 1954	LAT/LONG: 35.3269 / 119.386	RESEARCH DATE: 11/20/2008
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



<p>N</p> 	TARGET QUAD	SITE NAME: Site 7	CLIENT: URS Corporation
	NAME: EAST ELK HILLS	ADDRESS: 1.25 Miles SW of Station	CONTACT: Cindy Kyle-Fischer
	MAP YEAR: 1973	Road/Tupman Road	INQUIRY#: 2367645.4
	PHOTOREVISED FROM: 1954	Buttonwillow, CA 93206	RESEARCH DATE: 11/20/2008
	SERIES: 7.5	LAT/LONG: 35.3269 / 119.386	
	SCALE: 1:24000		

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Site 7	CLIENT:	URS Corporation
	NAME: TUPMAN	ADDRESS:	1.25 Miles SW of Station Road/Tupman Road	CONTACT:	Cindy Kyle-Fischer
	MAP YEAR: 1973		Buttonwillow, CA 93206	INQUIRY#:	2367645.4
	PHOTOREVISED FROM: 1954	LAT/LONG:	35.3269 / 119.386	RESEARCH DATE:	11/20/2008
	SERIES: 7.5				
	SCALE: 1:24000				

URS PHOTOGRAPHIC LOG

Site Description:

Hydrogen Energy International LLC
HECA Project Site - Kern County, California

Project No.

28067571

Photo No.**1****Date:**

January 13 and 14, 2009

Direction:

Southwest

Description:

Agricultural land on the northeast corner of the Site (photo taken from the intersection of Adohr and Tupman roads, facing to the southwest).

**Photo No.****2****Date:**

January 13 and 14, 2009

Direction:

Southwest

Description:

Natural fertilizer manufacturing plant located to the east of the farming operations in the northwestern corner of the Site. The eastern portion (approximately 0.8 acre) of this 3.7-acre facility is located on the Site. The remaining western portion (approximately 2.9 acres) is not located on the Site.

**Photo No.****3****Date:**

January 13 and 14, 2009

Direction:

Southeast

Description:

Farming operations located offsite adjacent to and northwest of the northwestern corner of the Site.



URS PHOTOGRAPHIC LOG

Site Description:

Hydrogen Energy International LLC
HECA Project Site - Kern County, California

Project No.

28067571

Photo No.**4****Date:**

January 13 and 14, 2009

Direction:

Southwest

Description:

Approximately 2 acre parcel of land located offsite and adjacent to the northwest corner of the Site. The parcel is privately owned and contains a home that is occupied by the parcel owner.

**Photo No.****5****Date:**

January 13 and 14, 2009

Direction:

Northwest

Description:

Agricultural land located offsite on the surrounding property to the north, north of Adohr Road.

**Photo No.****6****Date:**

January 13 and 14, 2009

Direction:

Southeast

Description:

Agricultural land located offsite on the surrounding property to the east, east of Tupman Road.



Site Description:

Hydrogen Energy International LLC
HECA Project Site - Kern County, California

Project No.

28067571

Photo No. 7	Date: January 13 and 14, 2009	
Direction: Northwest		
Description: Agricultural land located offsite on the surrounding property to the west, west of the dirt farm road (extending from the north to the south) that forms the southern portion of the western border of the Site (photo 1 of 2).		

Photo No. 8	Date: January 13 and 14, 2009	
Direction: Southwest		
Description: Agricultural land located offsite on the surrounding property to the west, west of the dirt farm road (extending from the north to the south) that forms the southern portion of the western border of the Site (photo 2 of 2).		

Photo No. 9	Date: January 13 and 14, 2009	
Direction: Southwest		
Description: Undeveloped land located offsite containing arid vegetation on the property located south of the Site (south of the West Side and Outlet Canals that generally extend from the east to west and southeast to northwest).		

URS PHOTOGRAPHIC LOG		Site Description: Hydrogen Energy International LLC HECA Project Site - Kern County, California	Project No. 28067571
Photo No. 10	Date: January 13 and 14, 2009		
Direction: North			
Description: The California Aqueduct, extending generally from the southeast to northwest, positioned parallel to and south of the West Side and Outlet Canals and lying offsite to the south of the undeveloped land south of the Site.			
Photo No. 11	Date: January 13 and 14, 2009		
Direction: Southeast			
Description: City of Tupman, California, located approximately 1.5 miles southeast of the Site.			
Photo No. 12	Date: January 13 and 14, 2009		
Direction: Northwest			
Description: First drainage ditch that is located onsite and extends southeast to northwest			

Site Description:

Hydrogen Energy International LLC
HECA Project Site - Kern County, California

Project No.

28067571

Photo No.
13

Date:
January 13 and 14, 2009

Direction:

South

Description:

Second drainage ditch that is located onsite and is oriented from north to south and extending directly south from the end of the first ditch and terminating at its intersection with the West Side Canal.



Photo No.
14

Date:
January 13 and 14, 2009

Direction:

Southwest

Description:

Operating ranch and ranch house located offsite approximately 0.75 miles southeast of the Site's southeastern corner, across Tupman Road.



Photo No.
15

Date:
January 13 and 14, 2009

Direction:

Northwest

Description:

Long wooden-frame with metal roof and siding raw materials storage building located at the Port Organics Products, LTD (PO) natural fertilizer manufacturing plant. Note also propane tank and pallets stored along the southern side of the raw materials storage building. These features are located in the western portion of the PO facility that is not located on the Site.



Site Description:

Hydrogen Energy International LLC
HECA Project Site - Kern County, California

Project No.

28067571

Photo No.
16

Date:
January 13 and 14, 2009

Direction:

Northeast

Description:

Prefabricated office trailer building located at the PO natural fertilizer manufacturing plant. Note also solid waste container that is picked up by a contractor and the contents of which are deposited in a permitted landfill. These features are located in the western portion of the PO facility that is adjacent to the Site.



Photo No.
17

Date:
January 13 and 14, 2009

Direction:

Northeast

Description:

Two office sheds located at the PO natural fertilizer manufacturing plant. Photo also shows the portable toilet (Port-o-Let) used by PO employees. These features are located in the western portion of the PO facility that is adjacent to the Site.



Photo No.
18

Date:
January 13 and 14, 2009

Direction:

Northeast

Description:

Maintenance area located at the PO natural fertilizer manufacturing plant. These features are located in the western portion of the PO facility that is adjacent to the Site.



Photo No.
19

Date:
January 13 and 14, 2009

Direction:
Southwest

Description:
Curbed concrete apron providing secondary containment for the PO facility manufacturing area and tank farm. These features are located in the western portion of the PO facility that is adjacent to the Site.



Photo No.
20

Date:
January 13 and 14, 2009

Direction:
South

Description:
The PO facility includes four below grade sumps that collect liquids contained within the concrete containment apron. Photo shows the east sump that receives liquids collected in the other three sumps via gravity flow. This sump is located in the western portion of the PO facility that is adjacent to the Site.



Photo No.
21

Date:
January 13 and 14, 2009

Direction:
Northwest

Description:
Underground 2-inch flex line that discharges approximately 500 to 750 gallons per day of liquids on a continuous basis from the east sump to a drainage ditch (first drainage ditch) located onsite to the east of the PO facility.



		Site Description: Hydrogen Energy International LLC HECA Project Site - Kern County, California	Project No. 28067571
Photo No. 22	Date: January 13 and 14, 2009		
Direction: Northwest			
Description: Solubles (concentrated fish liquids) unloading station at the PO facility. Note also solid waste container that is picked up by a contractor and the contents of which are deposited in a permitted landfill. This station is located in the western portion of the PO facility that is not located on the Site.			

Photo No. 23	Date: January 13 and 14, 2009		
Direction: Northeast			
Description: Broken concrete and debris approximately 0.25 miles southeast of the Site, on the west side of Tupman Road.			

Photo No. 24	Date: January 13 and 14, 2009		
Direction: West			
Description: Scrap metal roll-off container located at the southern fence line of the PO facility. Accumulated scrap metal is sent off site for recycling. Note also metal boxes located in same vicinity. These features are located in the western portion of the PO facility that is not located on the Site.			

Site Description:

Hydrogen Energy International LLC
HECA Project Site - Kern County, California

Project No.

28067571

Photo No.
25

Date:
January 13 and 14, 2009

Direction:

Northeast

Description:

Empty out of service metal and fiberglass tanks, plastics shipping totes and pallets, located on the western portion of the PO facility that is adjacent to the Site.



Photo No.
26

Date:
January 13 and 14, 2009

Direction:

North

Description:

Shaker screening process used at the PO natural fertilizer manufacturing facility that generates tailings. This shaker screen is located in the western portion of the PO facility that is adjacent to the Site.



Photo No.
27

Date:
January 13 and 14, 2009

Direction:

Northeast

Description:

Tailings stockpile locate outdoors in an opened and uncontained area. According to PO owner/operator, Mr. Ken Nelson, Jr., the tailings are sold to local farmers and are used as a soil amendment. This tailings stockpile is located in the eastern portion (approximately 0.8 acre) of the PO facility that is located on the Site.



		Site Description: Hydrogen Energy International LLC HECA Project Site - Kern County, California	Project No. 28067571
Photo No. 28	Date: January 13 and 14, 2009		
Direction: Southwest			
Description: In foreground, pipe that may be an UST fill or vent pipe observed within the farm operations area, located offsite and adjacent to the northwestern corner of the Site. The pipe was observed south of the large grain bins.			

Photo No. 29	Date: January 13 and 14, 2009		
Direction: Northeast			
Description: A large vertical permanent steel diesel tank (approximately 750-gallon) and 55-gallon steel lube oil drum mounted on an irrigation pump located offsite, approximately 150 feet south of the southern-central boundary of the Site.			

Photo No. 30	Date: January 13 and 14, 2009		
Direction: East			
Description: Approximately 5,600-gallon vertical plastic sulfuric acid tank located within the curbed concrete containment apron at the PO natural fertilizer facility. This tank is located in the western portion of the PO facility that is adjacent to the Site.			

Site Description:

Hydrogen Energy International LLC
HECA Project Site - Kern County, California

Project No.

28067571

Photo No.
31

Date:
January 13 and 14, 2009

Direction:

East

Description:

Approximately 2,100-gallon vertical plastic phosphoric acid tank located within the curbed concrete containment apron at the PO natural fertilizer facility. This tank is located in the western portion of the PO facility that is adjacent to the Site.



Photo No.
32

Date:
January 13 and 14, 2009

Direction:

Southwest

Description:

Approximately 1,800-gallon vertical plastic potassium hydroxide tank located within the curbed concrete containment apron at the PO natural fertilizer facility. This tank is located in the western portion of the PO facility that is adjacent to the Site.



Photo No.
33

Date:
January 13 and 14, 2009

Direction:

Southwest

Description:

Approximately 260-gallon elevated steel gasoline tank and an approximately 110-gallon diesel tanks located at the PO facility, along the eastern farm operations area fence line. These tanks are located in the western portion of the PO facility that is adjacent to the Site.



Photo No. 34	Date: January 13 and 14, 2009
Direction: Southwest	
Description: Propane tank located west of the propane-fired hot water heater at the PO natural fertilizer facility. This tank is located in the western portion of the PO facility that is adjacent to the Site.	



Photo No. 35	Date: January 13 and 14, 2009
Direction: Northwest	
Description: Soil stains observed near and around the base of the large (approximately 750-gallon) vertical permanent steel diesel tank located offsite, approximately 150 feet south of the southern-central boundary of the Site.	



Photo No. 36	Date: January 13 and 14, 2009
Direction: Southwest	
Description: Soil stains observed near and around the base of the irrigation pump located offsite, approximately 150 feet south of the southern-central boundary of the Site	



URS PHOTOGRAPHIC LOG

Site Description:

Hydrogen Energy International LLC
HECA Project Site - Kern County, California

Project No.

28067571

Photo No.
37

Date:
January 13 and 14, 2009

Direction:

Southwest

Description:

Propane-fired hot water heater located at the PO facility (large plastic tank in background is a hot water holding tank). These features are located in the western portion of the PO facility that is adjacent to the Site.



Kern County Environmental Health Services Department Inspection Documentation

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

STEVE McCALLEY, R.E.H.S., Director

2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301-2370
Voice: (661) 862-8700
Fax: (661) 862-8701
TTY Relay: (800) 735-2929
e-mail: eh@co.kern.ca.us



RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR

Community and Economic Development Department
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

April 19, 2005

Mr. Ken Nelson Jr., Owner
Port Organic Products LTD
P O Box 5203
Buttonwillow, California 93388

**SUBJECT: INSPECTION REPORT, REPORT OF VIOLATIONS AND
ORDER TO CORRECT FOR PORT ORGANIC PRODUCTS
LTD, 7361 ADHOR ROAD, BUTTONWILLOW, CALIFORNIA**

Dear Mr. Nelson:

On April 12, 2005, representatives of the Kern County Environmental Health Services Department conducted inspections at Port Organic Products LTD, located at 7361 Adhor Road in Buttonwillow, California. The following inspection report details the observations noted during that inspection. Violations of the California Health and Safety Code (HSC) and the California Code of Regulations (CCR) [Title 22] that were observed during those inspections and the corrective actions necessary to gain compliance are detailed in the attached Inspection Report.

The issuance of this Report of Violations and Order To Correct does not preclude Kern County Environmental Health Services, Hazardous Materials Management Program from taking administrative, civil or criminal action as a result of the violations noted herein. If you have any questions, you may contact me at (661) 862-8757 or Joe Canas at (661) 862-8756. Thank you for your cooperation in this matter.

Sincerely,

Steve McCalley, Director

A handwritten signature in black ink, appearing to read "Dan Starkey".

By: Dan Starkey, R.E.H.S.
Hazardous Materials Specialist III
Unified Hazardous Materials/Waste Program

DS:

[ds/PortOrganicsProductsLTD.Cover.Ltr.4.19.05.doc](#)

INSPECTION REPORT

Dates: April 12, 2005
Facility Name: Port Organic Products LTD
Facility Address: 7361 Adhor Road, Buttonwillow
Haz Mat Specialists: Dan STARKEY / Donna FENTON
EPA ID #: None
Facility I.D. #: (NEW) FA0005811/ Seed 1074
Inspection photographs

At approximately 0830 on April 12, 2005, Donna FENTON, and I, met with Jim ZABEN, General Manager of Port Organic Products LTD. Ken NELSON Jr. the owner was scheduled to meet with us but failed to make the appointment. We asked ZABEN for permission to complete an inspection and take photographs. I asked if Port had filed a Business Plan with our Department. ZABEN stated that the business had been at this location for ten years and to his knowledge has never had a business plan. ZABEN gave permission for the inspection. We asked ZABEN to describe his business. He stated that they blend and provide organic fertilizers to their customers.

The inspection started in the tank farm area. I asked FENTON to photograph the facility as we completed the inspection. There were numerous tanks of varying sizes, some were located inside the concrete secondary containment. I noted the secondary containment structure in poor condition. It was in a deteriorating condition and the leaking tanks and chemically etched concrete provided evidence that previous releases had occurred. The aboveground poly tanks contained: Phosphoric Acid, Sulfuric Acid, Aqua Ammonia 20%, Potash, blended fertilizers, and fish liquids. There is processing equipment that consists of mixing tanks, pumps and blending equipment. During the inspection of the tank farm we observed numerous violations. It was evident that the facility should have filed a Business Plan and CalARP with our Department. I advised ZABEN that the amount of chemicals stored exceeded the threshold quantity for both the Business Plan and CalARP regulations. We observed that all tanks lacked labels identifying the chemical contents. I explained to ZABEN the hazards of not knowing what chemicals are in specific tanks. One tank used to store aqua ammonia 20% was labeled "Fire Water". I informed ZABEN that if the aqua ammonia tank was used as fire water by fireman there could be serious consequences. While walking through the tank farm area FENTON, ZABEN and I were exposed to low levels of ammonia gas from the aqua ammonia storage tanks.

We asked about the material dumped in the soil east of the tank farm. ZABEN stated that the dirt area is the location where solid waste residue collected from the batch processing of fertilizer has been dumped. We advised that the waste could be hazardous and asked if they had analytical information for the waste. ZABEN stated that he had analyzed for the constituents of nitrogen, phosphorus & potassium (NPK) and based on that information some farmers have used the waste as fertilizer. I advised that the solid material looks like a waste and appears to be treated as a waste by being dumped on the ground adjacent to a canal. I informed ZABEN that he is required to test the waste material to determine if it is a hazardous waste.

We then inspected the covered warehouse located west of the tank farm which contained numerous pallets of potash, pallets of bat/bird guano, solid fish parts, totes containing fish liquid, diesel fuel, and 55 gallon drums. There are numerous totes around the warehouse some contained fish liquid, and others were empty. There were empty drums, poly tanks, and totes in deteriorated condition. ZABEN stated that he was trying to get the manufacture to take the totes back, and dispose of the damaged tanks and totes. Waste oil was found in two locations in the yard. It was stored in open unlabeled drums that had been cut in half.

I completed the inspection forms and discussed the violations with ZABEN. I informed him that there were serious violations observed during the inspection and that this Department would be seeking fines through the administrative process.

REPORT OF VIOLATIONS

1. The Respondent violated Health and Safety Code (HSC) Chapter 6.95, Section 25503.5 (a) Failure to file a Hazardous Materials Business Plan with this Department.

(a) Any business that handles a hazardous material or a mixture containing a hazardous material that has a quantity at any one time during the reporting year equal to, or greater than, a total weight of 500 pounds, or a total volume of 55 gallons, or 200 cubic feet at standard temperature and pressure for compressed gas, that is handled in quantities for which an emergency plan is required to be adopted pursuant to Part 30 (commencing with Section 30.1), Part 40 (commencing with Section 40.1), or Part 70 (commencing with Section 70.1), of Chapter 10 of Title 10 of the Code of Federal Regulations (54 Federal Register 14051), or pursuant to any regulations adopted by the state in accordance with those regulations, shall establish and implement a business plan for emergency response to a release or threatened release of a hazardous material in accordance with the standards prescribed in the regulations adopted pursuant to Section 25503.

Port Organic Products LTD has stored and processed chemicals at the 7361 Adhor Road facility for 10 years. They failed to file a Hazardous Materials Business Plan for the hazardous materials stored at this facility.

2. The Respondent violated California Code of Regulations (CCR) Title 19, Section 2745.1 (a) (d) failure to file a California Accidental Release Prevention Program (CalARP) Risk Management Plan (RMP).

Port Organic Products LTD
INSPECTION REPORT AND REPORT OF VIOLATIONS

Page 3 of 4

4/19/2005

- (a) *The owner or operator of a stationary source, which handles more than a threshold quantity of a regulated substance in a process, shall determine the applicability of this chapter as set forth in Section 2735.4(a) and shall submit a single RMP to the AA. The RMP shall include the information required by Sections 2745.3 through 2745.9*
- (b) *If a determination is made pursuant to section 2735.4 (a)(2) that an existing stationary source must comply with this chapter, the owner or operator shall submit an RMP to the AA after the owner or operator has received a notice from the AA requesting submission of an RMP. The AA shall, in consultation with the owner or operator of a stationary source, establish an RMP submittal date. The AA shall not require submission of the RMP earlier than 12 months or later than 3 years after the notice has been issued to the owner or operator*

This Department set the CalARP Risk Management Plan submittal deadline for all Table 3 Threshold Quantity facilities as January 31, 2002. Port Organic Products failed to register with this Department and submit a CalARP, Risk Management Plan.

- 3. Respondent violated CCR, Title 19, Division 4, Chapter 4, Article 4, Section 2732, Failure to properly train employees on how to handle hazardous materials.
 - a) *The business plan shall include a training program which is reasonable and appropriate for the size of the business and the nature of the hazardous materials handled. The training program shall take into consideration the responsibilities of the employees to be trained. The training program shall, at a minimum, include:
 - 1) methods for safe handling of hazardous materials;
 - 2) procedures for coordination with local emergency response organizations;
 - 3) use of emergency response equipment and supplies under the control of the handler, and
 - 4) all procedures required by Section 2731 of this Article*
 - b) *The business plan shall include provisions for ensuring that appropriate personnel receive initial and refresher training.*

Port Organics Products LTD employees have not been trained how to recognize and handle hazardous materials as evidenced by discussions with Jim Zaben, General Manager.

- 4. The Respondent violated 22 CCR Section 66265.31, Failure to operate a facility to minimize the possibility of the release of hazardous waste to the environment which could threaten human health.

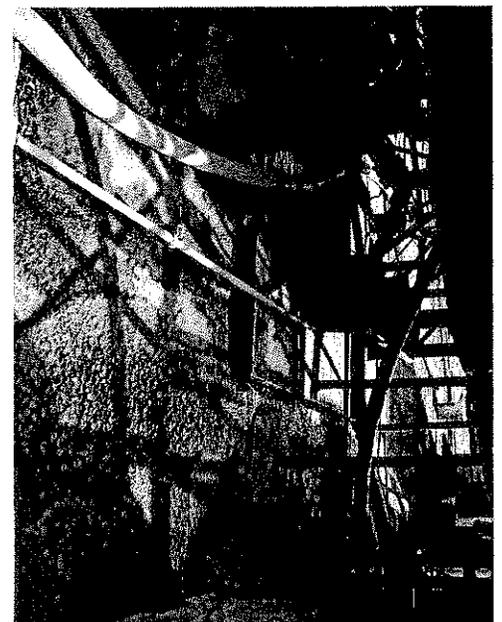
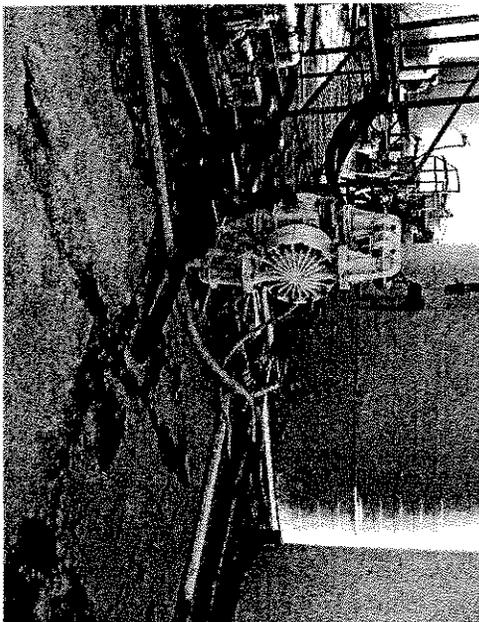
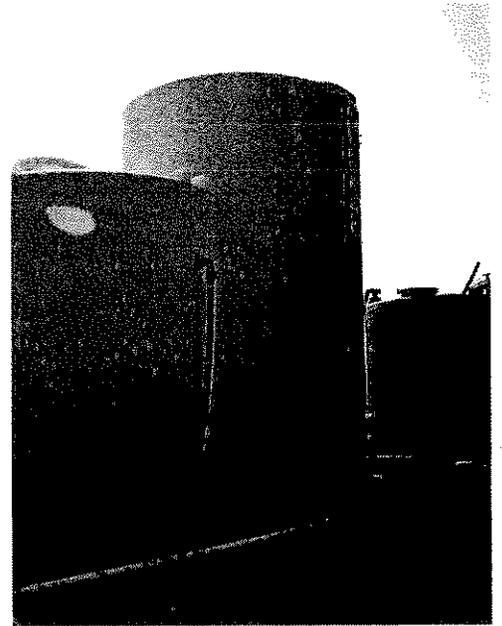
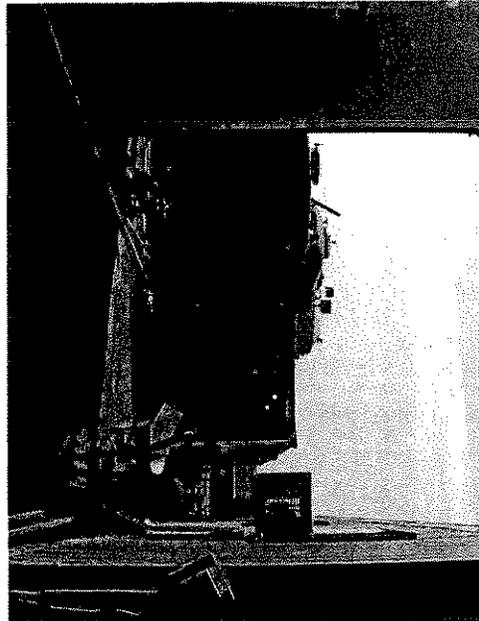
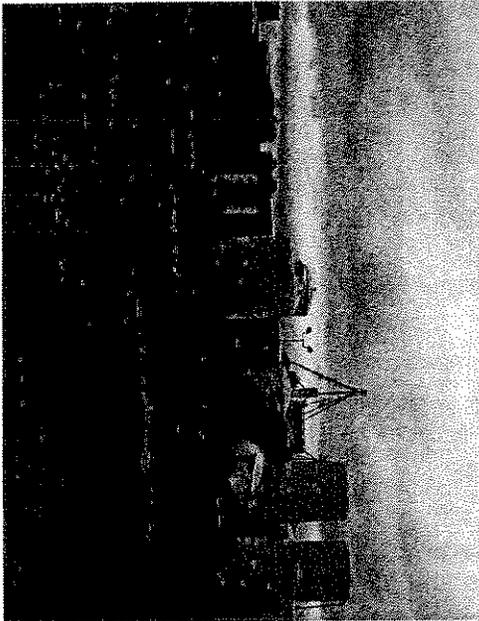
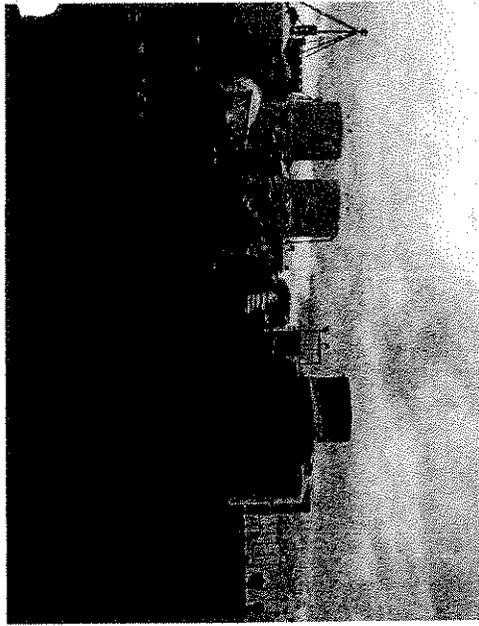
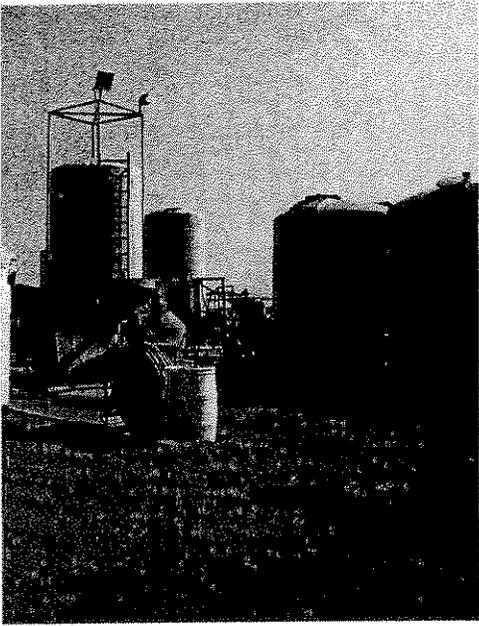
Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

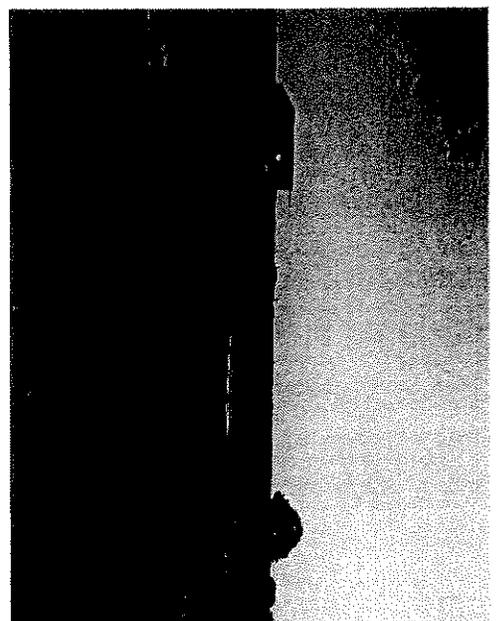
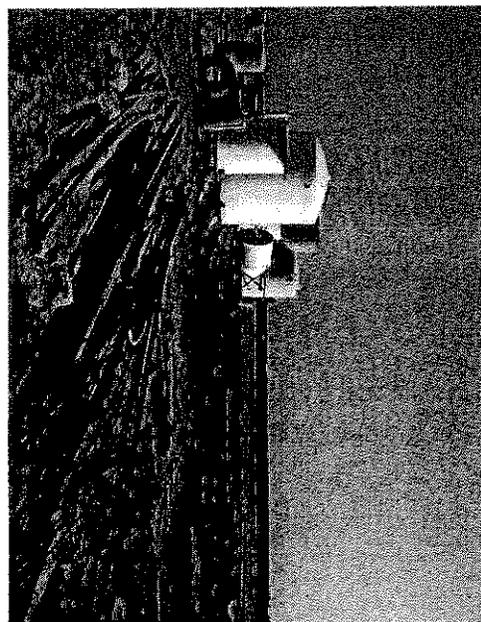
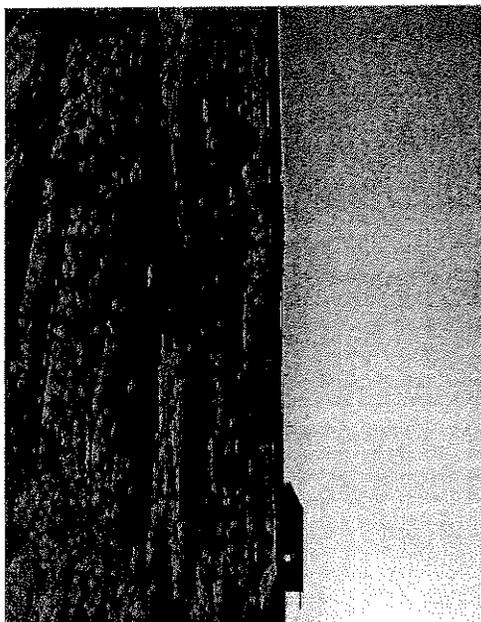
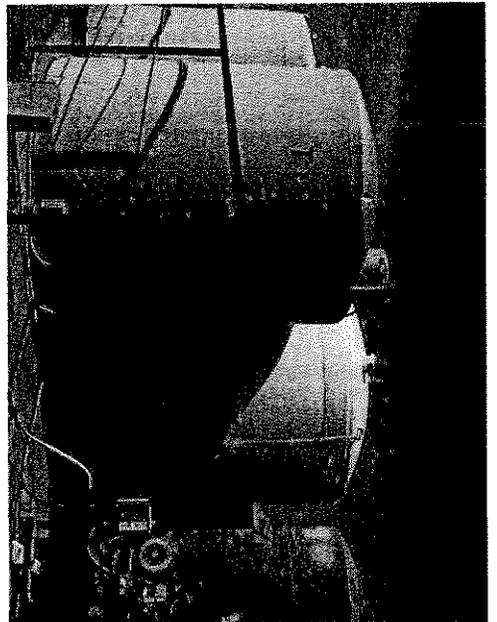
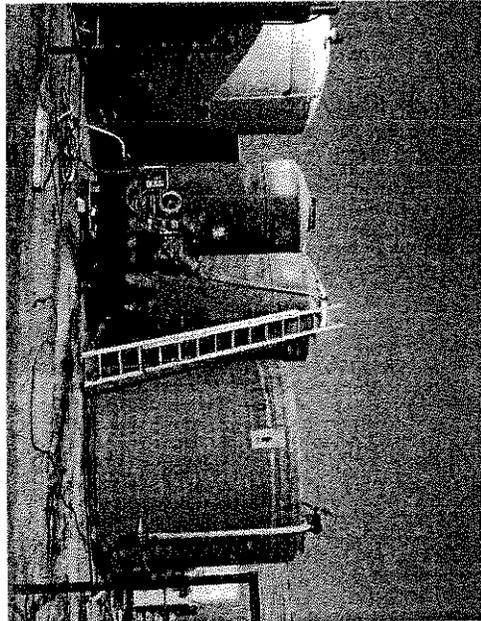
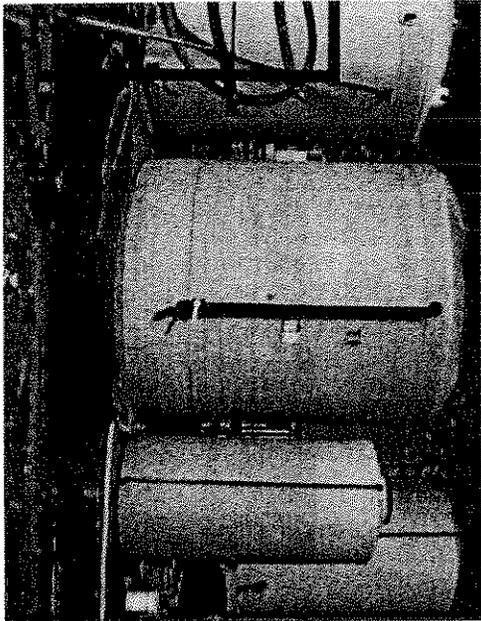
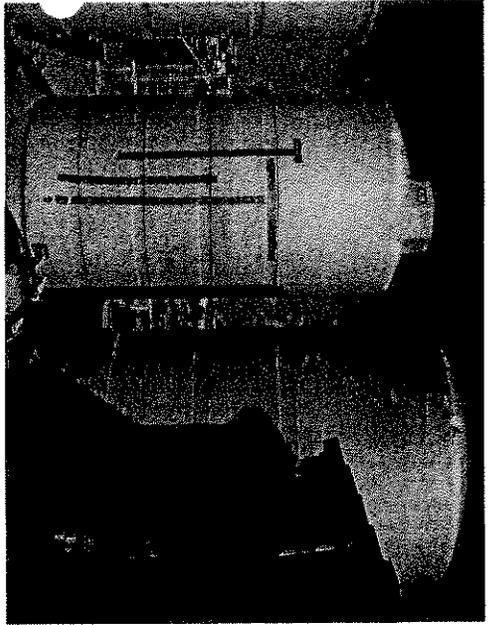
The chemical storage tanks used at the facility are not labeled properly. A 6000-gallon poly aqua ammonia (20%) tank is labeled "Fire Water". All tanks lack labels identifying the chemical contents. This violation poses a significant risk to human health and the possibility of mixing incompatible chemicals.

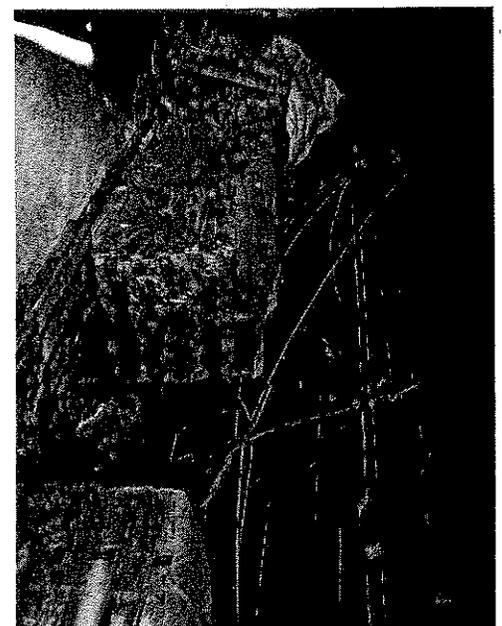
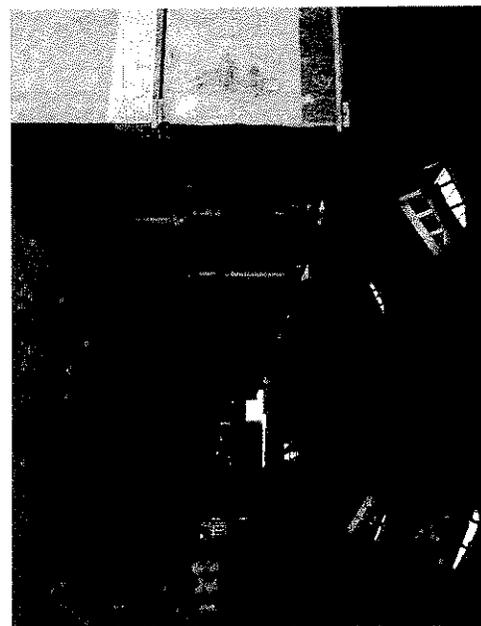
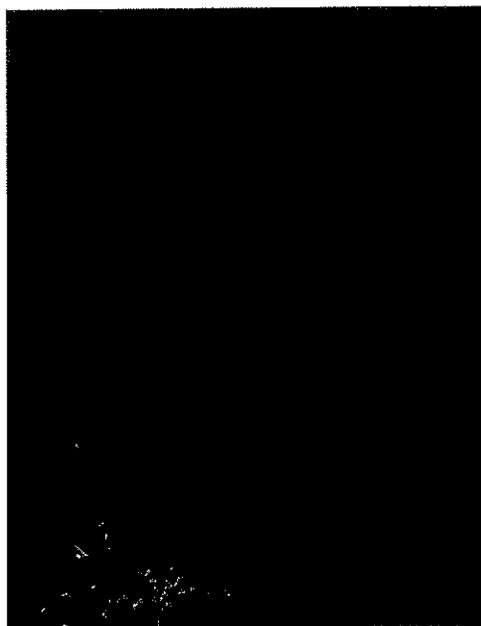
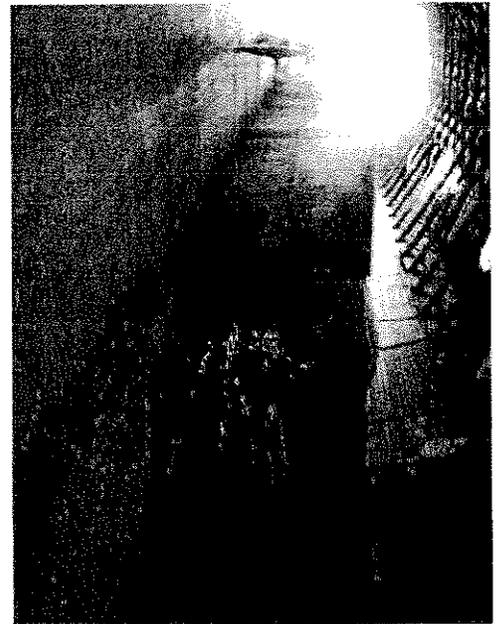
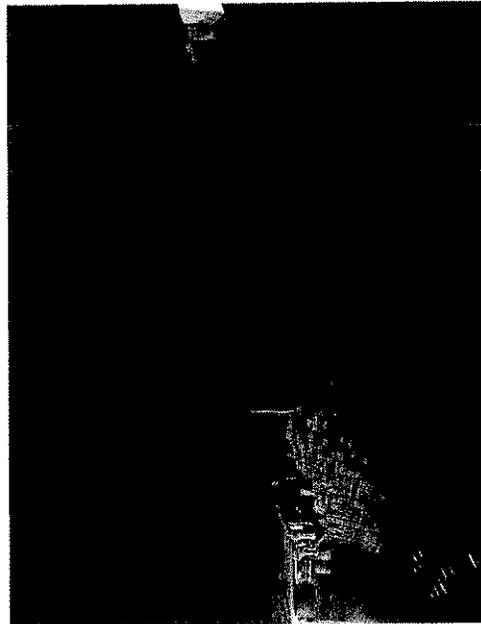
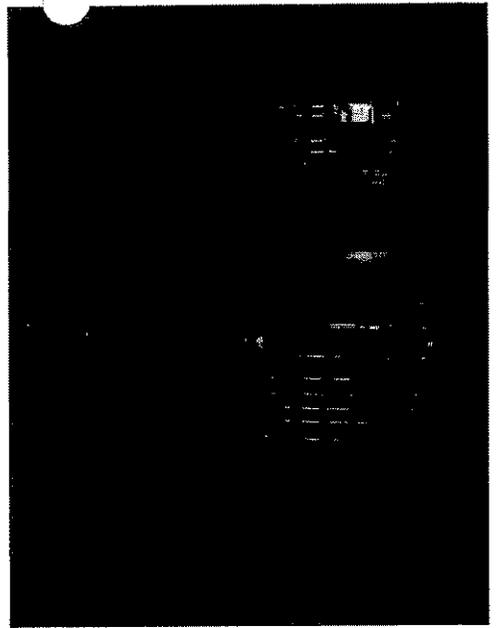
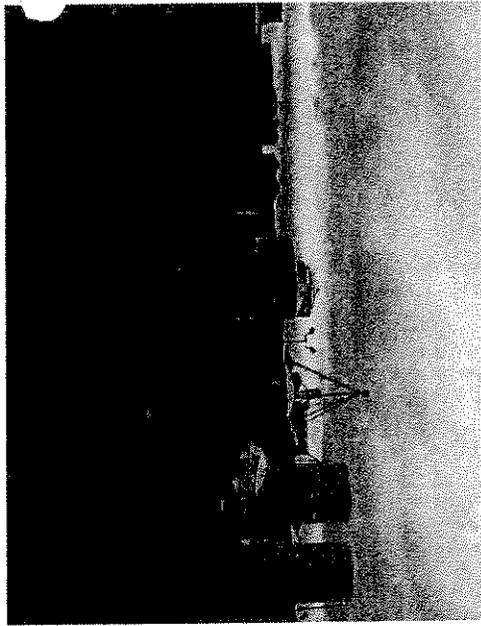
CORRECTIVE ACTIONS

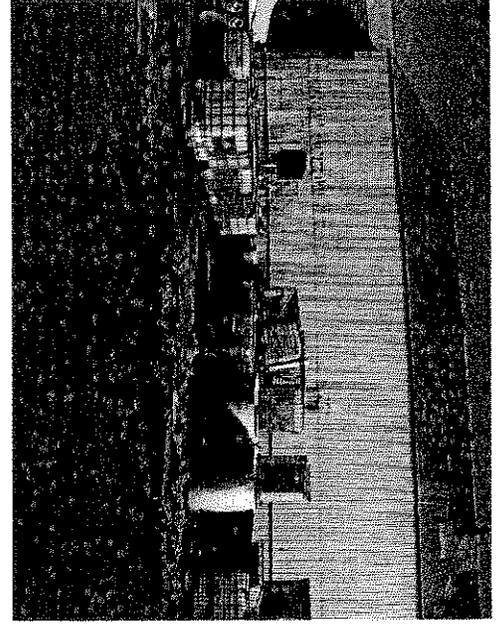
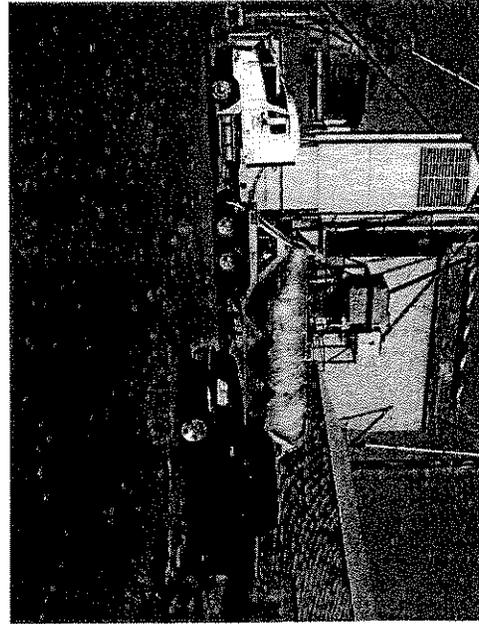
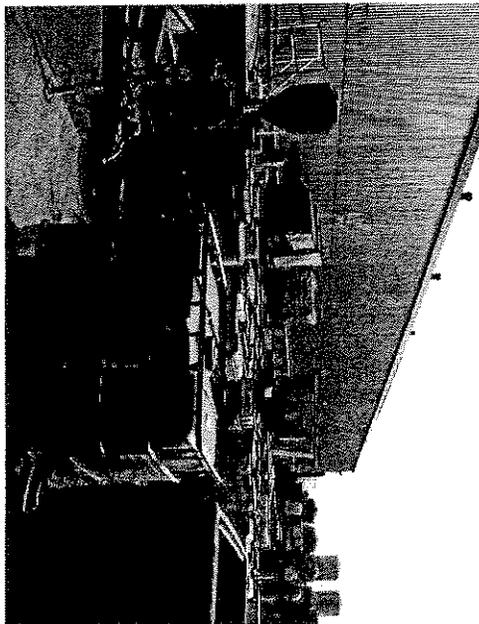
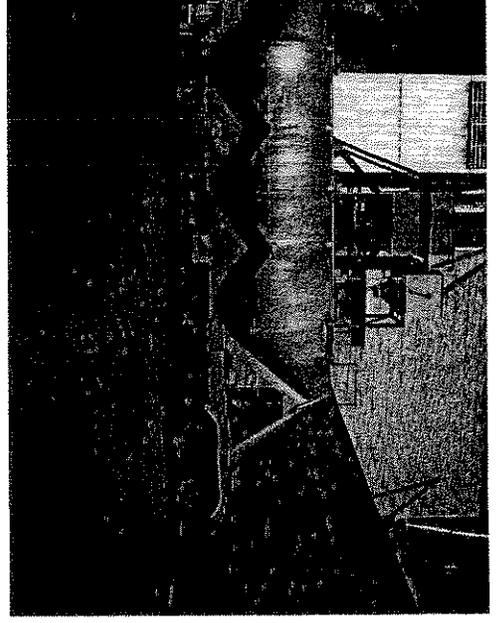
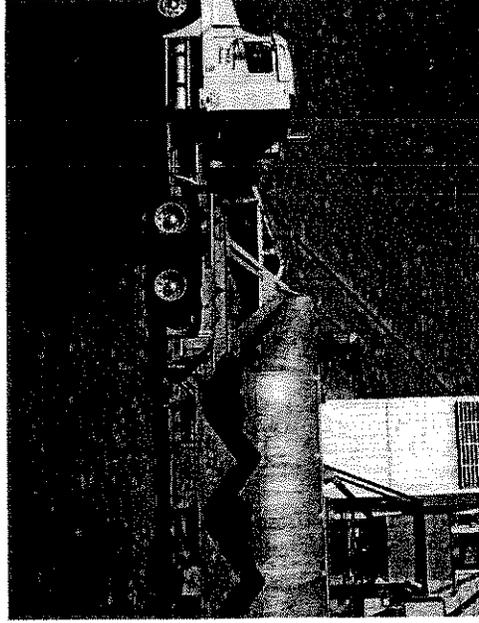
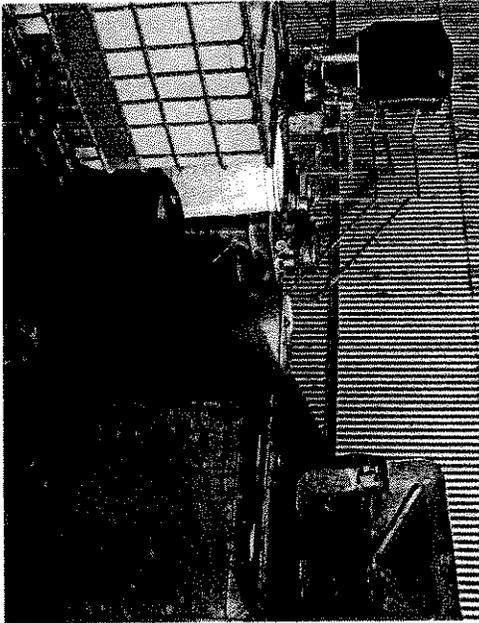
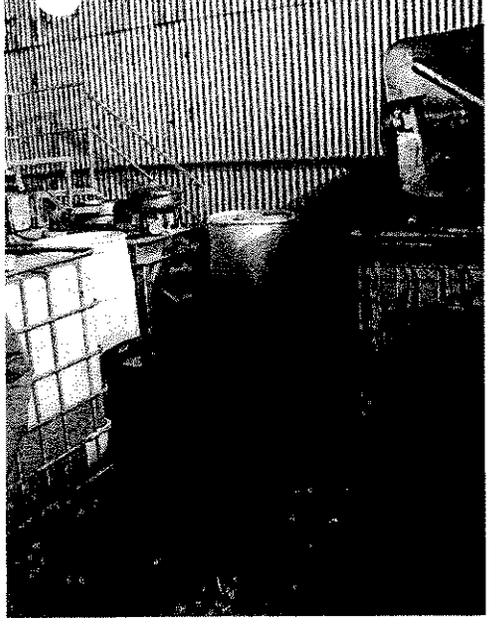
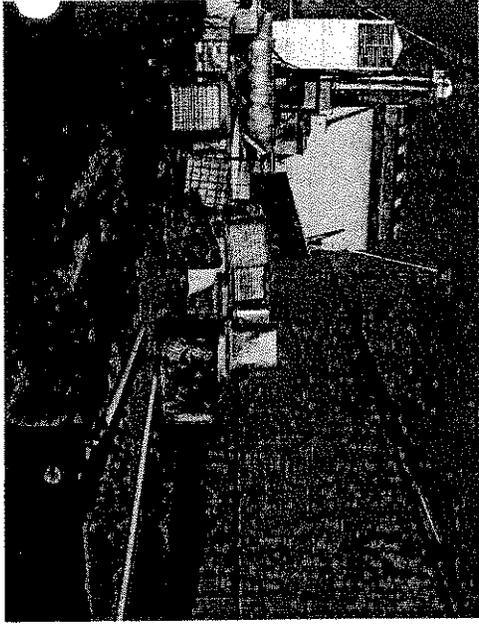
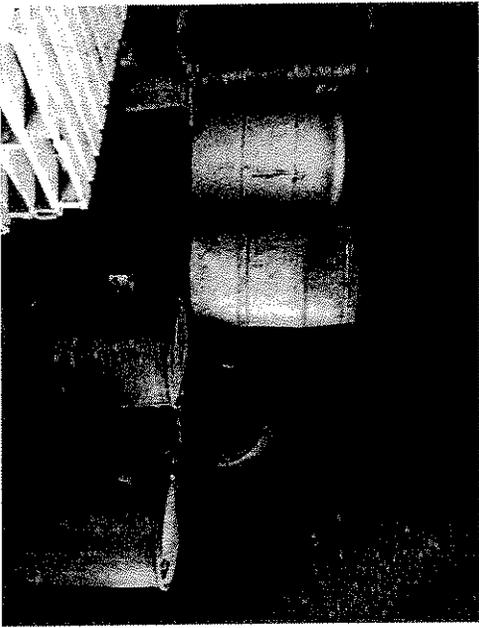
1. Complete a hazardous materials business plan as specified in HSC section 25504 within 14 days of receipt of inspection report dated April 12, 2005.
2. All tanks and containers must be labeled. Tanks are required to be labeled with minimum four inch lettering in a contrasting color placed on opposite sides of the tanks. This requirement shall be completed immediately.
3. The CalARP Risk Management Plan (RMP) registration form shall be submitted within 14 days of receipt of the inspection report dated April 12, 2005.
4. The CalARP (RMP) document must be submitted within 90 days of receipt of this Notice of Violation. The RMP Submit format must be used. This requires a hard copy and data disk be submitted to this Department only. All Program 2 prevention documentation shall be included at that time.
5. Properly label, handle and dispose of all hazardous waste stored at 7361 Adhor Road within 14 days.
6. Within six (6) months of receipt of this notice, one (1) employee involved in the management of hazardous waste must attend California Compliance School training for hazardous waste generators. The completion certificates must be provided to this Department by November 1, 2005.

cc: File









ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

STEVE McCALLEY, R.E.H.S., Director

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BAKERSFIELD, CA 93301-2370
Voice: (661) 862-8700
Fax: (661) 862-8701
TTY Relay: (800) 735-2929
e-mail: eh@co.kern.ca.us



1074
REGULATORY MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR

Community and Economic Development Department
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

December 7, 2005

Mr. Ken Nelson Jr., Owner
Port Organic Products LTD
P O Box 5203
Bakersfield, California 93388

RE: Port Organic Products LTD Settlement Agreement

Dear Mr. Nelson:

This Department has completed the evaluation of all factors associated with the settlement of the administrative enforcement action being considered. Included with this correspondence is a settlement agreement entitled "Consent Order" which was previously discussed.

You have been provided with two signed Consent Order documents. One document is to be counter signed and mailed back to this office with the agreed settlement amount of \$ 7,250. The other document is your copy.

If you have any questions please contact me at (661) 862-8756.

Sincerely,

Steve McCalley, Director

A handwritten signature in black ink, appearing to read "Joe Canas".

By: Joe Canas, REHS
Hazardous Materials Specialist IV
Hazardous Materials Management Program

DS:

ds/PortOrganicProductsLTD.Consent.cover.ltr.11.28.05

1 KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
2 HAZARDOUS MATERIALS MANAGEMENT PROGRAM
3 CERTIFIED UNIFIED PROGRAM AGENCY (CUPA)

4 In the Matter of:) Docket No. DS00009/10-11
5) Facility ID No. FA0005811
6 Port Organic Products LTD)
7 7361 Adhor Road)
8 Buttonwillow, CA 93206)
9 Respondent) Health and Safety Code
) Section 25187
)

10
11 The Kern County Environmental Health Services Department, Certified Unified Program Agency
12 (Agency) and Port Organic Products LTD (Respondent) enter into this Consent Order (Order) and agree
13 as follows:

- 14 1. Respondent operated a business that lacked a Hazardous Materials Business Plan
15 (HMBP) and California Accidental Release Prevention Program (CalARP), Risk
16 Management Plan for the Port Organic Products, LTD facility located at 7361 Adhor
17 Road, Buttonwillow, CA.
- 18 2. The Agency inspected the Site on April 12, 2005.
- 19 4. The Agency provided an Inspection Report and Report of Violations of activities to the
20 Respondent on April 19, 2005.
- 21 5. The Agency alleges the following violations:
 - 22 5.1 Respondent violated Health and Safety Code (HSC) Chapter 6.95, Section 25503.5 (a) in
23 that Respondent failed to complete and submit a HMBP with this Department.
 - 24 5.2 Respondent violated California Code of Regulations (CCR) Title 19, Section 2745.1 (a)
25 in that Respondent failed to complete and submit a CalARP Risk Management Plan to
26 this Department.
27
28

- 1 5.4 Respondent violated CCR, Title 19, Division 4, Chapter 4, Article 4, Section 2732 in that
2 Respondent failed to train employees how to handle hazardous materials.
- 3 5.5 Respondent violated CCR, Title 22, Section 66265.31 in that Respondent failed to
4 operate a facility to minimize the possibility of a release of hazardous waste to the
5 environment which could threaten human health.
- 6
- 7 6. Respondent disputes the alleged violations.
- 8 7. The parties wish to avoid the expense of litigation and ensure prompt compliance.
- 9 8. Jurisdiction exists pursuant to Health and Safety Code (HSC) section 25187.
- 10 9. Respondent waives any right to a formal hearing in this matter. Respondent agrees that
11 due process has been provided with respect to this matter.
- 12
- 13 10. This Consent Order shall constitute full settlement of the violations alleged above but
14 does not limit the Agency from taking appropriate enforcement action concerning other
15 violations.
- 16

17
18
19 **SCHEDULE FOR COMPLIANCE**

- 20
- 21 Respondent shall comply with the following:
- 22
- 23 11.1 Maintain updated Hazardous Materials Business Plan in accordance with HSC, Section
24 25503.5. *Business Plan has been submitted and is complete.*
- 25 11.2 Maintain current CalARP Risk Management Plan in accordance with CCR, Section
26 2745.10. *CalARP Risk Management Plan has been submitted and is up to date.*
- 27
- 28

1 11.3 Provide proof of completion of the hazardous materials training for management of
2 hazardous materials. *The training must be completed by November 30, 2005. Training*
3 *was completed prior to November 30, 2005.*

4
5 11.4 Submittals: All submittals from Respondent pursuant to this Consent Order shall be sent
6 to:

7 Mr. Dan Starkey
8 Kern County Environmental Health Services Department
9 Certified Unified Program Agency
10 2700 "M" Street, Suite 300
11 Bakersfield, CA 93301

12 11.5 Communications: All communications from Agency shall be communicated to
13 Respondent in writing by the Program Supervisor, of the Kern County Environmental
14 Health Services Department, Certified Unified Program Agency, or his/her designee. No
15 informal advice, guidance, suggestions, or comments by the Agency regarding reports,
16 plans, specifications, schedules, or any other writings by Respondent shall be construed
17 to relieve Respondent of its obligation to obtain such formal approvals as may be
18 required.

19 11.5 Compliance with Applicable Laws: Respondent shall carry out this Order in compliance
20 with all local, State, and federal requirements, including but not limited to requirements
21 to obtain permits and to assure worker safety.

22 11.6 Liability: Nothing in this Consent Order shall constitute or be construed as a satisfaction
23 or release from liability for any conditions or claims arising as a result of past, current, or
24 future operations of Respondent, except as provided in this Consent Order.

25
26 Notwithstanding compliance with the terms of this Consent Order, Respondent may be
27 required to take further actions as are necessary to protect public health or welfare or the
28 environment.

1 11.7 Government Liabilities: The Kern County Environmental Health Services Department
2 shall not be held liable for injuries or damages to persons or property resulting from acts
3 or omissions by Respondent or related parties specified in paragraph 12.2, in carrying out
4 activities pursuant to this Consent Order, nor shall the County of Kern be held as a party
5 to any contract entered into by Respondent or its agents in carrying out activities pursuant
6 to this Consent Order.
7

8 11.8 Extension Requests: If Respondent is unable to perform any activity or submit any
9 document within the time required under this Consent Order, the Respondent may, prior
10 to expiration of the time, request an extension of time in writing. The extension request
11 shall include a justification for the delay.
12

13 11.9 Extension Approvals: If the Agency determines that good cause exists for an extension, it
14 will grant the request and specify in writing a new compliance schedule.
15

16 PAYMENT

17
18 Respondent shall pay the Agency a total of \$ 7,250 of which \$ 6,100 is penalty, \$ 1,150 is
19 reimbursement of this Agency's costs. Payment is due within 30 days from the effective
20 date of this Consent Order. Respondent's check shall be made payable to the Kern
21 County Environmental Health Services Department and shall be delivered to:

22
23 Mr. Joe Canas
24 Kern County Environmental Health Department
25 2700 "M" Street Suite 300
26 Bakersfield, CA 93301

27 If Respondent fails to make payment as provided above, Respondent agrees to pay
28 interest at the rate established pursuant to HSC § 25360.1 and to pay all costs incurred by
the Agency in pursuing collection, including attorney's fees.

1 **OTHER PROVISIONS**

2 12. Additional Enforcement Actions: By agreeing to this Consent Order, the Agency does not
3 waive the right to take further enforcement actions on any other incidents, except to the
4 extent provided in this Consent Order.

5 12.1 Penalties for Noncompliance: Failure to comply with the terms of this Consent Order
6 may subject Respondent to civil penalties and/or punitive damages for any costs incurred
7 by the Agency or other government agencies as a result of such failure, as provided by
8 HSC section 25188 and other applicable provisions of law.

9 12.2 Parties Bound: This Consent Order shall apply to and be binding upon Respondent and its
10 officers, directors, agents, receivers, trustees, employees, contractors, consultants,
11 successors, and assignees, including but not limited to individuals, partners, subsidiary
12 and parent corporations, and upon the Agency and any successor Agency that may have
13 responsibility for and jurisdiction over the subject matter of this Consent Order.

14 12.3 Effective Date: The effective date of this Consent Order is the date it is signed by the
15 Agency.

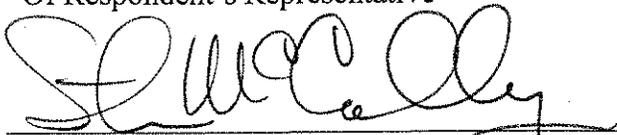
16 12.4. Integration: This agreement constitutes the entire agreement between the parties and may
17 not be amended, supplemented, or modified, except as provided in this agreement.
18

19
20 Dated: _____

Signature of Respondent's Representative

21
22
23 _____
Type or Printed Name and Title
Of Respondent's Representative

24
25
26 Dated: 12-6-05

27 

Steve McCalley, Director
Kern County Environmental Health
Services Department

Penalty Calculations

Facility: Port Organic Products LTD			Docket No. DS 0009/7-05			PCA			Case Code			WP			MPC			Page 1 of 1			Date of Inspection 04-12-05			
#	Citation	Violation	Potential for Harm	Extent of Deviation	# of Times Violation Occurred	Statutory Maximum	Initial Penalty	Intent Factor	Economic Benefit	Multi-day	Base Penalty	Cooperation	Prophylactic	Compliance	Final Payment									
1	H&SC Sec. 25503.5 (a)	Failure to file a HMBP	Major Harm	Major	10 years	\$2,000/day	\$ 2,000	NA	\$ 5,000	\$2,400*	\$9,400	-\$ 2,350	NA	-\$ 2500	\$ 4,500									
2	TI9 Sec. 15.1 (a) (d)	Failure to file a CalARP RMP	Major	Major	5 years	\$ 2,000/day	\$ 2,000	NA	\$850	\$2,400*	\$5,250	-\$ 1,320	NA	-\$ 380	\$ 3,520									
					Continues	\$4,000	\$ 2,000	NA	\$ 5,850	\$ 4,800	\$ 14,650	-\$ 3,670	NA	NA	\$ 8,020									
Sub Total Violations																								\$ 8,020

* Multiday calculated at 2% of \$ 2,000 X 60 days

Departmental Costs + \$ 1,150
Compliance School Costs - \$ 2,000

TOTAL SETTLEMENT AMOUNT \$ 7,250

BUSINESS OWNER/OPERATOR IDENTIFICATION

Kern County Environmental Health Services Department
 2700 M Street, Suite 306
 Bakersfield, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
 FACILITY INFORMATION

NEW BUSINESS OUT OF BUSINESS REVISE/UPDATE (EFFECTIVE 12/05/2006)

Page 1 of 1

I. IDENTIFICATION

FACILITY ID#	1 5 - 0 1 0 - 0 0 1 0 7 4	BEGINNING DATE	100	ENDING DATE	101
FA0005811		02/13/2006		02/13/2007	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)			3	BUSINESS PHONE	
PORT ORGANIC PRODUCTS LTD				(661) 764-9670	
BUSINESS SITE ADDRESS					
7361 ADHOR RD					
CITY			104	ZIP CODE	
BUTTONWILLOW			CA	93206	
DUN & BRADSTREET			106	SIC CODE (4 digit #)	
				2873	
COUNTY					
Kern County					
BUSINESS OPERATOR NAME			109	BUSINESS OPERATOR PHONE	
SHINAULT BAKER AND CO CPAs					

II. BUSINESS OWNER

OWNER NAME	111	OWNER PHONE	112
PORT ORGANIC PRODUCTS LTD		(661) 764-9670	
OWNER MAILING ADDRESS			
5060 CALIFORNIA AVE STE 650			
CITY	114	STATE	115
BAKERSFIELD		CA	116
		ZIP CODE	116
		93206	

III. ENVIRONMENTAL CONTACT

CONTACT NAME	117	CONTACT PHONE	118
Jim Zaben		(661) 764-9670	
CONTACT MAILING ADDRESS			
7361 Adohr Rd.			
CITY	120	STATE	121
Buttonwillow		CA	122
		ZIP CODE	122
		93206	

-PRIMARY-

IV. EMERGENCY CONTACTS

-SECONDARY-

NAME	123	NAME	128
Kenneth N. Nelson Jr.		Jim Zaben	
TITLE	124	TITLE	129
Owner		General Manager	
BUSINESS PHONE	125	BUSINESS PHONE	130
(661) 764-9670		(661) 764-9670	
24-HOUR PHONE	126	24-HOUR PHONE	131
(661) 667-3460		(661) 201-9598	
PAGER #	127	PAGER #	132
() -		() -	

ADDITIONAL LOCALLY COLLECTED INFORMATION:

APN: 15904018

Environmental Contact E-Mail Address: jzaben@bak.rr.com

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE	134	NAME OF DOCUMENT PREPARER	135
<i>Electronic Signature</i>	12/05/2006			
NAME OF SIGNER (print)	136	TITLE OF SIGNER	137	
James Zaben				

BUSINESS OWNER/OPERATOR IDENTIFICATION

Kern County Environmental Health Services Department
 2700 M Street, Suite 300
 Bakersfield, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
 FACILITY INFORMATION

NEW BUSINESS OUT OF BUSINESS REVISE/UPDATE (EFFECTIVE 02/13/2007)

Page 1 of 1

I. IDENTIFICATION

FACILITY ID#	1 5 - 0 1 0 - 0 0 1 0 7 4	BEGINNING DATE	100	ENDING DATE	101
	FA0005811	02/13/2006		02/13/2007	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)			BUSINESS PHONE		
PORT ORGANIC PRODUCTS LTD			(661) 764-9670		
BUSINESS SITE ADDRESS					
7361 ADHOR RD					
CITY				ZIP CODE	
BUTTONWILLOW				93206	
DUN & BRADSTREET				SIC CODE (4 digit #)	
				2873	
COUNTY					
Kern County					
BUSINESS OPERATOR NAME				BUSINESS OPERATOR PHONE	
SHINAULT BAKER AND CO CPAs					

II. BUSINESS OWNER

OWNER NAME	111	OWNER PHONE	112
PORT ORGANIC PRODUCTS LTD		(661) 764-9670	
OWNER MAILING ADDRESS			
5060 CALIFORNIA AVE STE 650			
CITY	114	STATE	115
BAKERSFIELD		CA	116
		ZIP CODE	116
		93206	

III. ENVIRONMENTAL CONTACT

CONTACT NAME	117	CONTACT PHONE	118
Jim Zaben		(661) 764-9670	
CONTACT MAILING ADDRESS			
7361 Adohr Rd.			
CITY	120	STATE	121
Buttonwillow		CA	122
		ZIP CODE	122
		93206	

-PRIMARY-

IV. EMERGENCY CONTACTS

-SECONDARY-

NAME	123	NAME	128
Kenneth N. Nelson Jr.		Jim Zaben	
TITLE	124	TITLE	129
Owner		General Manager	
BUSINESS PHONE	125	BUSINESS PHONE	130
(661) 764-9670		(661) 764-9670	
24-HOUR PHONE	126	24-HOUR PHONE	131
(661) 667-3460		(661) 201-9598	
PAGER #	127	PAGER #	132
() -		() -	

ADDITIONAL LOCALLY COLLECTED INFORMATION:		133
APN: 15904018		
Environmental Contact E-Mail Address: jzaben@bak.rr.com		

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.		
SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE	NAME OF DOCUMENT PREPARER
<i>Electronic Signature</i>	02/13/2007	
NAME OF SIGNER (print)	TITLE OF SIGNER	
James Zaben		

BUSINESS OWNER/OPERATOR IDENTIFICATION

Kern County Environmental Health Services Department
 2700 M Street, Suite 300
 Bakersfield, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
 FACILITY INFORMATION

NEW BUSINESS OUT OF BUSINESS REVISE/UPDATE (EFFECTIVE 03/17/2006)

Page 1 of 1

I. IDENTIFICATION

FACILITY ID# FA0005811		1 5 - 0 1 0 - 0 0 1 0 7 4	BEGINNING DATE 02/13/2006	ENDING DATE 02/13/2007
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) PORT ORGANIC PRODUCTS LTD			BUSINESS PHONE (661) 764-9670	
BUSINESS SITE ADDRESS 7361 ADHOR RD				
CITY BUTTONWILLOW			CA	ZIP CODE 93206
DUN & BRADSTREET			SIC CODE (4 digit #) 2873	
COUNTY Kern County				
BUSINESS OPERATOR NAME SHINAULT BAKER AND CO CPAs			BUSINESS OPERATOR PHONE	

II. BUSINESS OWNER

OWNER NAME PORT ORGANIC PRODUCTS LTD			OWNER PHONE (661) 764-9670	
OWNER MAILING ADDRESS 5060 CALIFORNIA AVE STE 650				
CITY BAKERSFIELD		STATE CA	ZIP CODE 93206	

III. ENVIRONMENTAL CONTACT

CONTACT NAME Jim Zaben			CONTACT PHONE (661) 764-9670	
CONTACT MAILING ADDRESS 7361 Adohr Rd.				
CITY Buttonwillow		STATE CA	ZIP CODE 93206	

-PRIMARY-

IV. EMERGENCY CONTACTS

-SECONDARY-

NAME Kenneth N. Nelson Jr.		NAME Jim Zaben		
TITLE Owner		TITLE General Manager		
BUSINESS PHONE (661) 764-9670		BUSINESS PHONE (661) 764-9670		
24-HOUR PHONE (661) 667-3460		24-HOUR PHONE (661) 201-9598		
PAGER # () -		PAGER # () -		

ADDITIONAL LOCALLY COLLECTED INFORMATION:

APN: 15904018

Environmental Contact E-Mail Address: jzaben@bak.rr.com

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE <i>Electronic Signature</i>		DATE 03/17/2006	NAME OF DOCUMENT PREPARER
NAME OF SIGNER (print) James Zaben		TITLE OF SIGNER	

BUSINESS ACTIVITIES

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
 2700 M STREET, SUITE 300
 BAKERSFIELD, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
FACILITY INFORMATION

I. FACILITY IDENTIFICATION

FACILITY ID #	FA 000 5811	EPA ID # (Hazardous Waste Only)	2
---------------	-------------	---------------------------------	---

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As)	3
Pent Organic Products, LTD	

II. ACTIVITIES DECLARATION

**NOTE: If you check YES to any part of this list,
 please submit the Business Owner/Operator Identification page (KC Form 2730).**

Does your facility...		If Yes, please complete these pages of the UPCF....
A. HAZARDOUS MATERIALS		
Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 4	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION (KC Form 2731) CONSOLIDATED CONTINGENCY PLAN (KC Form 2733) SITE MAP (KC Form 2734)
B. UNDERGROUND STORAGE TANKS (USTs)		
1. Own or operate underground storage tanks? 2. Intend to upgrade existing or install new USTs? 3. Need to report closing a UST?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 5 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 6 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 7	UST FACILITY (KC Form A) UST TANK (one page per tank) (KC Form B) UST FACILITY UST TANK (one per tank) UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (KC Form C) UST TANK (closure portion –one page per tank)
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)		
Own or operate ASTs above a total capacity for the facility of greater than 1,320 gallons?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 8	NO FORM REQUIRED TO KCEHSD
D. HAZARDOUS WASTE		
1. Generate hazardous waste? 2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)? 3. Treat hazardous waste on site? 4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)? 5. Consolidate hazardous waste generated at a remote site? 6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 9 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 10 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 12 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 13 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14	EPA ID NUMBER – provide at the top of this page WASTE GENERATOR FORM (KC Form 2735) RECYCLABLE MATERIALS REPORT (one per recycler) (KC Form 2732) ONSITE HAZARDOUS WASTE TREATMENT – FACILITY (KC Form 1772f) ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit) (KC Form 1772u) CERTIFICATION OF FINANCIAL ASSURANCE (KC Form 1232) REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (KC Form 1196) HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (KC Form 1249)
E. LOCAL REQUIREMENTS		
Have Regulated Substances (RS) stored on site at greater than the threshold quantities established by the California Accidental Release Program (Cal ARP)? A RS is any substance listed in Section 2770.5 of CCR Title 19, Division 2, Chapter 4.5.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 15	REGULATED SUBSTANCES REGISTRATION (KC Form 2736) RISK MANAGEMENT PLAN (when required)

BUSINESS OWNER/OPERATOR IDENTIFICATION

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
 2700 M STREET, SUITE 300
 BAKERSFIELD, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
 FACILITY INFORMATION

NEW BUSINESS OUT OF BUSINESS REVISE/UPDATE (EFFECTIVE / /) Page ___ of ___

I. IDENTIFICATION

FACILITY ID#	1	BEGINNING DATE	100	ENDING DATE	101
FA 000 5811					
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)			3 BUSINESS PHONE		
Pont Organic Products LTD			661-764-9670		
BUSINESS SITE ADDRESS					
7361 Adahn Rd.					
CITY	104	CA	ZIP CODE	105	
Buttonwillow			93206		
DUN & BRADSTREET	106	SIC CODE (4 digit #)		107	
		2873			
COUNTY					
Kern County					
BUSINESS OPERATOR NAME			109 BUSINESS OPERATOR PHONE		
			110		

II. BUSINESS OWNER

OWNER NAME	111	OWNER PHONE	112
Ken Nelson, Jr.		661-764-9670	
OWNER MAILING ADDRESS			
PO Box 5203			
CITY	114	STATE	115
Bakersfield		CA	116
		ZIP CODE	93388

III. ENVIRONMENTAL CONTACT

CONTACT NAME	117	CONTACT PHONE	118
Jim Zaben		661-764-9670	
CONTACT MAILING ADDRESS			
PO Box 5203			
CITY	120	STATE	121
Bakersfield		CA	122
		ZIP CODE	93388

IV. EMERGENCY CONTACTS

-PRIMARY-	-SECONDARY-
NAME	123 NAME
Ken Nelson, Jr.	128 Jim Zaben
TITLE	124 TITLE
Owner	129 General Manager
BUSINESS PHONE	125 BUSINESS PHONE
661-764-9670	130 661-764-9670
24-HOUR PHONE	126 24-HOUR PHONE
661-667-3460	131 661-201-9598
PAGER #	127 PAGER #
	132

ADDITIONAL LOCALLY COLLECTED INFORMATION:

APN: _____

Environmental Contact E-Mail Address: jzaben@Bak.ca.com

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE	134 NAME OF DOCUMENT PREPARER	135
<i>Jim Zaben</i>	4-16-05	Jim Zaben	
NAME OF SIGNER (print)	136	TITLE OF SIGNER	137
Jim Zaben		General Manager	

CONSOLIDATED CONTINGENCY PLAN

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
2700 M STREET, SUITE 300
BAKERSFIELD, CA 93301
(661) 862-8700 Fax (661) 862-8701

Unified Program Form
COVER PAGE

Page _____ of _____

I. FACILITY IDENTIFICATION

FACILITY ID #	FA 000 5811	EPA ID # (Hazardous Waste Only)	2
BUSINESS NAME (Same as Facility Name of DBA-Doing Business As)	Port Organic Products LTD		

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following two written hazardous materials emergency response plans required in California:

- ◁ Hazardous Materials Business Plan (HSC Chapter 6.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- ◁ Hazardous Waste Generator Contingency Plan (22 CCR Section 66264.52), and,

This format is designed to reduce duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency.

A copy of the plan shall be submitted to this Department and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. Describe below where a copy of your Contingency Plan, including the hazardous material inventories, Training Records, and Site Map(s), are located at your business:

PLAN CERTIFICATION

I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.

Printed Name of Owner/ Operator	Title of Owner/Operator
Signature of Owner/ Operator	Date

We appreciate the effort of local businesses in completing these plans and are available to assist in any manner. If you have any questions, please contact this Department at (661) 862-8700.

B. Emergency Medical Facility

List the closest emergency medical facility that will be used by your business in the event of an accident of injury caused by a release or threatened release of a hazardous material

HOSPITAL/CLINIC:

Southwest Urgent Care

PHONE NO:

661-322-2273

ADDRESS:

6401 Tuxton Avenue

CITY:

Bakersfield

ZIP CODE:

93309

C. Private Emergency Response

DOES YOUR BUSINESS HAVE A PRIVATE ON-SITE EMERGENCY RESPONSE TEAM? Yes No

If yes, provide an attachment that describes what policies and procedures your business will follow to notify your on-site emergency response team in the event of a release or threatened release of hazardous materials.

CLEANUP/DISPOSAL CONTRACTOR

List the contractor that will provide cleanup services in the event of a release.

NAME OF CONTRACTOR:

PHONE NO:

ADDRESS:

CITY:

ZIP CODE:

D. Arrangements with Emergency Responders

If you have made special (i.e. contractual) arrangements with any police department, fire department, hospital, contractor, or State or local emergency response team to coordinate emergency services, describe those arrangements in the space below:

E. Evacuation Plan

1. The following alarm signal(s) will be used to begin evacuation of the facility (check all which apply):

- Verbal Telephone (including cellular) Alarm System Public Address System Intercom
 Pagers Portable Radio Other (specify): Two-way radio - Nextel

2. Evacuation map is prominently displayed throughout the facility.

3. Name of individual(s) responsible for coordinating evacuation including spreading the alarm and confirming the business has been evacuated: Jim Zaben

F. Earthquake Vulnerability

Identify areas of the facility where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

- Hazardous Waste/ Hazardous Materials Storage Areas Production Floor Process Lines
 Bench/ Lab Waste Treatment Other: Poly Tanks

Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

- Utilities Sprinkler Systems Cabinets Shelves
 Racks Pressure Vessels Gas Cylinders Tanks
 Process Piping Shutoff Valves Other:

IV. Emergency Equipment

22 CCR, Section 66265.52(e) [as referenced by Section 66262.34(a)(3)] requires that emergency equipment at the facility be listed. Completion of the following Emergency Equipment Inventory Table meets this requirement.

EMERGENCY EQUIPMENT INVENTORY TABLE

1. Equipment Category	2. Equipment Type	3. Location	4. Description*
Personal Protective, Equipment, Safety Equipment, and First Aid Equipment	<input checked="" type="checkbox"/> Cartridge Respirators	Office	NIOSH approved full face
	<input type="checkbox"/> Chemical Monitoring Equipment (describe)		
	<input type="checkbox"/> Chemical Protective Aprons/Coats		
	<input checked="" type="checkbox"/> Chemical Protective Boots	office	Rubber knee high boots
	<input checked="" type="checkbox"/> Chemical Protective Gloves	office	Poly rubber gloves
	<input type="checkbox"/> Chemical Protective Suits (describe)		
	<input type="checkbox"/> Face Shields		
	<input checked="" type="checkbox"/> First Aid Kits/Stations (describe) 2	office	Complete Osha approved
	<input type="checkbox"/> Hard Hats		
	<input type="checkbox"/> Plumbed Eye Wash Stations		
	<input type="checkbox"/> Portable Eye Wash Kits (i.e. bottle type)		
	<input type="checkbox"/> Respirator Cartridges (describe)		
	<input checked="" type="checkbox"/> Safety Glasses/Splash Goggles	office	ANSI approved clear & clear
	<input type="checkbox"/> Safety Showers		
<input type="checkbox"/> Self-Contained Breathing Apparatuses (SCBA)			
<input type="checkbox"/> Other (describe)			
Fire Extinguishing Systems	<input type="checkbox"/> Automatic Fire Sptinkler Systems		
	<input type="checkbox"/> Fire Alarm Boxes/Stations		
	<input type="checkbox"/> Fire Extinguisher Systems (describe)		
	<input type="checkbox"/> Other (describe)		
Spill Control Equipment and Decontamination Equipment	<input type="checkbox"/> Absorbents (describe)		
	<input checked="" type="checkbox"/> Berms/Dikes (describe)	plant	plant is surrounded by dikes
	<input type="checkbox"/> Decontamination Equipment (describe)		
	<input type="checkbox"/> Emergency Tanks (describe)		
	<input type="checkbox"/> Exhaust Hoods		
	<input type="checkbox"/> Gas Cylinders Leak Repair Kits (describe)		
	<input type="checkbox"/> Neutralizers (describe)		
	<input type="checkbox"/> Overpack Drums		
	<input type="checkbox"/> Sumps (describe)		
<input type="checkbox"/> Other (describe)			
Communications and Alarm Systems	<input type="checkbox"/> Chemical Alarms (describe)		
	<input type="checkbox"/> Intercoms/ PA Systems		
	<input type="checkbox"/> Portable Radios		
	<input type="checkbox"/> Telephones		
	<input checked="" type="checkbox"/> Other (describe)	each person	NexTel two-way & phone
Additional Equipment (Use Additional Pages if Needed.)			

* Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.

SITE MAP

A site plan and storage map must be included with your Contingency Plan. For relatively small facilities, these documents may be combined into one drawing. Since these drawings are intended for use in emergency response situations, larger facilities (*generally those with complex and/or multiple buildings*) should provide an overall site plan and a separate storage map for each building/storage area. A blank Facility Site Map has been provided on the reverse side of this page. You may complete that page or attach any other drawing(s) which contain(s) the information required below. Drawings are to be no larger than 11" x 17". Blue prints are not acceptable.

1. **Site Plan:** This drawing shall contain, at a minimum, the following information:
 - a. Site Orientation (north, south, etc.)
 - b. Date the map was drawn
 - c. Locations of all buildings and other structures
 - d. Parking lots and internal roads
 - e. Outside hazardous materials storage or use areas
 - f. Storm drain, sanitary sewer drain inlets, and dry wells
 - g. All wells (water, monitoring of underground tank systems, etc) if applicable
 - h. Evacuation routes, emergency exits, and staging/meeting areas
 - i. Adjacent property use
 - j. Locations and names of adjacent streets and alleys
 - k. Entrance and exit points/roads

2. **Storage Map(s):** The map(s) shall contain, at a minimum, the following information:
 - a. General purpose of each section/area within each building (e.g. "Office Area", "Manufacturing Area", etc)
 - b. Location of each hazardous material/waste storage, dispensing, use, or handling area (e.g. individual underground tanks, aboveground tanks, storage rooms, etc.).
 - c. Entrances to and exits from each building and hazardous material/waste room/area
 - d. Location of each utility emergency shut-off point (i.e. gas, water, electric)
 - e. Location of each monitoring system control panel (e.g. underground tank monitoring, toxic gas monitoring, etc)

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
 2700 M STREET, SUITE 300
 BAKERSFIELD, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
HAZARDOUS MATERIALS

(one page per material per building or area)

ADD DELETE REVISE 200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Pont Organic Products LTD

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
7361 Adahn Road YES NO

FACILITY ID # 204 MAP# (optional) 203 GRID# (optional)

FA 000 5811

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET Yes No 206
Sulfuric Acid If Subject to EPCRA, refer to instructions

COMMON NAME 207 EHS* Yes No 208
Sulfuric Acid *If EHS if "Yes", all amounts below must be in pounds

CAS# 209
7664-93-9

FIRE CODE HAZARD CLASSES (Not currently required by KCEHSD) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE Yes No 212 CURIES 213
 a. PURE b. MIXTURE c. WASTE

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER 215
 a. SOLID b. LIQUID c. GAS *6000 gallons*

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
3000 / 45,300 *6000 / 90,600#* *None*

UNITS* (Check one item only) 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS
 * If EHS, amount must be in pounds.

STORAGE CONTAINER 223
 a. ABOVE GROUND TANK e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE q. RAIL CAR
 b. UNDERGROUND TANK f. CAN j. BAG n. PLASTIC BOTTLE r. OTHER
 c. TANK INSIDE BUILDING g. CARBOY k. BOX o. TOTE BIN
 d. STEEL DRUM h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC

#	%WT	226	HAZARDOUS COMPONENT (For mixture or waste only)	227	EHS	228	CAS #	229
1	15.1		<i>Sulfuric Acid</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
2		230		231	<input type="checkbox"/> Yes <input type="checkbox"/> No	232		233
3		234		235	<input type="checkbox"/> Yes <input type="checkbox"/> No	236		237
4		238		239	<input type="checkbox"/> Yes <input type="checkbox"/> No	240		241
5		242		243	<input type="checkbox"/> Yes <input type="checkbox"/> No	244		245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information. 246

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
 2700 M STREET, SUITE 300
 BAKERSFIELD, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
HAZARDOUS MATERIALS

(one page per material per building or area)

 ADD

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 REVISE

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Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)

3

CHEMICAL LOCATION

201

CHEMICAL LOCATION CONFIDENTIAL EPCRA

 YES NO

202

FACILITY ID #

MAP# (optional)

203

GRID# (optional)

204

II. CHEMICAL INFORMATION

CHEMICAL NAME

205

TRADE SECRET

 Yes No

206

If Subject to EPCRA, refer to instructions

COMMON NAME

207

EHS*

 Yes No

208

CAS#

209

*If EHS if "Yes", all amounts below must be in pounds

FIRE CODE HAZARD CLASSES (Not currently required by KCEHSD)

210

HAZARDOUS MATERIAL TYPE (Check one item only)

 a. PURE b. MIXTURE c. WASTE

211

 RADIOACTIVE Yes No

212

CURIES

213

PHYSICAL STATE (Check one item only)

 a. SOLID b. LIQUID c. GAS

214

LARGEST CONTAINER

215

FED HAZARD CATEGORIES (Check all that apply)

 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

216

AVERAGE DAILY AMOUNT

217

MAXIMUM DAILY AMOUNT

218

ANNUAL WASTE AMOUNT

219

STATE WASTE CODE

220

UNITS* (Check one item only)

 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS
 * If EHS, amount must be in pounds.

221

DAYS ON SITE:

222

STORAGE CONTAINER

- | | | | | |
|--|--|--|--|--------------------------------------|
| <input type="checkbox"/> a. ABOVE GROUND TANK | <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM | <input type="checkbox"/> i. FIBER DRUM | <input type="checkbox"/> m. GLASS BOTTLE | <input type="checkbox"/> q. RAIL CAR |
| <input type="checkbox"/> b. UNDERGROUND TANK | <input type="checkbox"/> f. CAN | <input type="checkbox"/> j. BAG | <input type="checkbox"/> n. PLASTIC BOTTLE | <input type="checkbox"/> r. OTHER |
| <input type="checkbox"/> c. TANK INSIDE BUILDING | <input type="checkbox"/> g. CARBOY | <input type="checkbox"/> k. BOX | <input type="checkbox"/> o. TOTE BIN | |
| <input type="checkbox"/> d. STEEL DRUM | <input type="checkbox"/> h. SILO | <input type="checkbox"/> l. CYLINDER | <input type="checkbox"/> p. TANK WAGON | |

223

STORAGE PRESSURE

 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

224

STORAGE TEMPERATURE

 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC

225

%WT

HAZARDOUS COMPONENT (For mixture or waste only)

EHS

CAS #

1

226

227

 Yes No

228

229

2

230

231

 Yes No

232

233

3

234

235

 Yes No

236

237

4

238

239

 Yes No

240

241

5

242

243

 Yes No

244

245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

246

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

HAZARDOUS WASTE GENERATOR

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
 2700 M STREET, SUITE 300
 BAKERSFIELD, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Form

Page _____ of _____

I. FACILITY INFORMATION

FACILITY ID #	EPA ID # (Hazardous Waste Only)
BUSINESS NAME (Same as Facility Name of DBA-Doing Business As)	# OF EMPLOYEES

II. TYPE OF GENERATOR

PLEASE CHECK THE BOX THAT APPLIES

	RCRA GENERATOR (FEDERAL WASTE)	NON-RCRA GENERATOR (CALIFORNIA WASTE ONLY)
LARGE QUANTITY GENERATOR (>1000 KG HAZARDOUS WASTE PER MONTH)	<input type="checkbox"/>	<input type="checkbox"/>
SMALL QUANTITY GENERATOR (>100 KG BUT <1000 KG HAZARDOUS WASTE PER MONTH)	<input type="checkbox"/>	<input type="checkbox"/>
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (<100 KG HAZARDOUS WASTE PER MONTH)	<input type="checkbox"/>	<input type="checkbox"/>

III. WASTE STREAM IDENTIFICATION

PLEASE COMPLETE THE TABLE BELOW. (SEE INSTRUCTIONS ON THE BACK FOR CODES AND EXPLANATIONS)

PROCESS	WASTE DESCRIPTION	WASTE ID	AMOUNT PER YEAR	UNITS	STORAGE METHOD	DISPOSAL METHOD

I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR NAME	OWNER/OPERATOR TITLE
OWNER/OPERATOR SIGNATURE	DATE

1074



HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
2700 M STREET, SUITE 300
BAKERSFIELD, CA 93301
(661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
HAZARDOUS MATERIALS

(one page per material per building or area)

ADD DELETE REVISE 200 Page 1 of 1

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) 3
PORT ORGANIC PRODUCTS LTD

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
7361 ADOHR ROAD YES NO

FACILITY ID # **FA 000 5811** MAP# (optional) 203 GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET Yes No 206
Ammonia 20% CONC If Subject to EPCRA, refer to instructions

COMMON NAME 207 EHS* Yes No 208
Aqua Ammonia

CAS# 209 *If EHS if "Yes", all amounts below must be in pounds
7664-41-7

FIRE CODE HAZARD CLASSES (Not currently required by KCEHSD) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE Yes No 212 CURIES 213
 a. PURE b. MIXTURE c. WASTE

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER 215
 a. SOLID b. LIQUID c. GAS **6000**

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
12,336 **12,336** **none** **-**

UNITS* (Check one item only) 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS **7**
* If EHS, amount must be in pounds.

STORAGE CONTAINER 223
 a. ABOVE GROUND TANK e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE q. RAIL CAR
 b. UNDERGROUND TANK f. CAN j. BAG n. PLASTIC BOTTLE r. OTHER
 c. TANK INSIDE BUILDING g. CARBOY k. BOX o. TOTE BIN
 d. STEEL DRUM h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 20 226	Ammonia 227	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 228	7664.41.7 229
2 230		<input type="checkbox"/> Yes <input type="checkbox"/> No 232	
3 234		<input type="checkbox"/> Yes <input type="checkbox"/> No 236	
4 238		<input type="checkbox"/> Yes <input type="checkbox"/> No 240	
5 242		<input type="checkbox"/> Yes <input type="checkbox"/> No 244	

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information. 246

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
 2700 M STREET, SUITE 300
 BAKERSFIELD, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
HAZARDOUS MATERIALS

(one page per material per building or area)

ADD DELETE REVISE 200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
PORT ORGANIC PRODUCTS LTD

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
 YES NO

7361 Adohr Road

FACILITY ID # FA 000 5811 203 MAP# (optional) 204 GRID# (optional)

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET Yes No 206
Ammonia > 20%
 If Subject to EPCRA, refer to instructions

COMMON NAME 207 EHS* Yes No 208
Aqueous Ammonia
 *If EHS if "Yes", all amounts below must be in pounds

CAS# 209
7664-41-7

FIRE CODE HAZARD CLASSES (Not currently required by KCEHSD) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE Yes No 212 CURIES 213
 a. PURE b. MIXTURE c. WASTE

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER 6000 215
 a. SOLID b. LIQUID c. GAS

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
6168 / 6000 gallons # 6168 / 6000 gallons none

UNITS* (Check one item only) 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS 6168
 * If EHS, amount must be in pounds. 7

STORAGE CONTAINER 223
 a. ABOVE GROUND TANK e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE q. RAIL CAR
 b. UNDERGROUND TANK f. CAN j. BAG n. PLASTIC BOTTLE r. OTHER
 c. TANK INSIDE BUILDING g. CARBOY k. BOX o. TOTE BIN
 d. STEEL DRUM h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC

#	%WT	226	HAZARDOUS COMPONENT (For mixture or waste only)	227	EHS	228	CAS #	229
1	20	226	Ammonia Solutions	227	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	228	7664-41-7	229
2		230		231	<input type="checkbox"/> Yes <input type="checkbox"/> No	232		233
3		234		235	<input type="checkbox"/> Yes <input type="checkbox"/> No	236		237
4		238		239	<input type="checkbox"/> Yes <input type="checkbox"/> No	240		241
5		242		243	<input type="checkbox"/> Yes <input type="checkbox"/> No	244		245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information. 246

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
 2700 M STREET, SUITE 300
 BAKERSFIELD, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
HAZARDOUS MATERIALS

(one page per material per building or area)

ADD DELETE REVISE 200 Page _____ of _____

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
PORT ORGANIC PRODUCTS LTD

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
7361 ADOLR ROAD YES NO

FACILITY ID # **FA 000 5811** MAP# (optional) 203 GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET Yes No 206
Sulfonic Acid If Subject to EPCRA, refer to instructions

COMMON NAME 207 EHS* Yes No 208
Sulfonic Acid

CAS# 209 *If EHS is "Yes", all amounts below must be in pounds
2664-93-9

FIRE CODE HAZARD CLASSES (Not currently required by KCEHSD) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE Yes No 212 CURIES 213
 a. PURE b. MIXTURE c. WASTE

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER 215
 a. SOLID b. LIQUID c. GAS **6000 gallons**

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
45,300 **90,600** **None** **—**

UNITS* (Check one item only) 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS **7**
* If EHS, amount must be in pounds.

STORAGE CONTAINER 223
 a. ABOVE GROUND TANK e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE q. RAIL CAR
 b. UNDERGROUND TANK f. CAN j. BAG n. PLASTIC BOTTLE r. OTHER
 c. TANK INSIDE BUILDING g. CARBOY k. BOX o. TOTE BIN
 d. STEEL DRUM h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC

#	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	93	Sulfonic Acid	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2664-93-9
2			<input type="checkbox"/> Yes <input type="checkbox"/> No	
3			<input type="checkbox"/> Yes <input type="checkbox"/> No	
4			<input type="checkbox"/> Yes <input type="checkbox"/> No	
5			<input type="checkbox"/> Yes <input type="checkbox"/> No	

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information. 246

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
 2700 M STREET, SUITE 300
 BAKERSFIELD, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
HAZARDOUS MATERIALS

(one page per material per building or area)

ADD DELETE REVISE 200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
PORT ORGANIC PRODUCTS LTD

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
 YES NO

2361 Adahr Road

FACILITY ID # FA 000 5811 MAP# (optional) 203 GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET Yes No 206
Potassium Hydroxide
If Subject to EPCRA, refer to instructions

COMMON NAME 207 EHS* Yes No 208
KOH
*If EHS if "Yes", all amounts below must be in pounds

CAS# 209
1310-58-3

FIRE CODE HAZARD CLASSES (Not currently required by KCEHSD) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE Yes No 212 CURIES 213
 a. PURE b. MIXTURE c. WASTE

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER 215
 a. SOLID b. LIQUID c. GAS 1000 gallons

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
12,800 12,800 None

UNITS* (Check one item only) 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS 7
* If EHS, amount must be in pounds.

STORAGE CONTAINER 223
 a. ABOVE GROUND TANK e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE q. RAIL CAR
 b. UNDERGROUND TANK f. CAN j. BAG n. PLASTIC BOTTLE r. OTHER
 c. TANK INSIDE BUILDING g. CARBOY k. BOX o. TOTE BIN
 d. STEEL DRUM h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC

#	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	226		<input type="checkbox"/> Yes <input type="checkbox"/> No 228	229
2	230		<input type="checkbox"/> Yes <input type="checkbox"/> No 232	233
3	234		<input type="checkbox"/> Yes <input type="checkbox"/> No 236	237
4	238		<input type="checkbox"/> Yes <input type="checkbox"/> No 240	241
5	242		<input type="checkbox"/> Yes <input type="checkbox"/> No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
 2700 M STREET, SUITE 300
 BAKERSFIELD, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
HAZARDOUS MATERIALS

(one page per material per building or area)

ADD DELETE REVISE 200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3	
PORT ORGANIC PRODUCTS LTD	
CHEMICAL LOCATION 201	CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
7361 Adahn Road	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
FACILITY ID #	MAP# (optional) 203 GRID# (optional) 204
F A 0 0 0 5 8 1 1 1	

II. CHEMICAL INFORMATION

CHEMICAL NAME 205	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 206
Urea Ammonium Nitrate	If Subject to EPCRA, refer to instructions
COMMON NAME 207	EHS* <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 208
UN 32	*If EHS if "Yes", all amounts below must be in pounds
CAS# 209	
57-13-6	
FIRE CODE HAZARD CLASSES (Not currently required by KCEHSD) 210	

HAZARDOUS MATERIAL TYPE (Check one item only) 211	RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 212	CURIES 213
<input type="checkbox"/> a. PURE <input checked="" type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE		
PHYSICAL STATE (Check one item only) 214	LARGEST CONTAINER 215	
<input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS	1500 gallons	
FED HAZARD CATEGORIES (Check all that apply) 216		
<input type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH		
AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
16,605	16,605	None —
UNITS* (Check one item only) 221	DAYS ON SITE: 222	
<input type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input checked="" type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS * If EHS, amount must be in pounds.	7	

STORAGE CONTAINER 223
<input checked="" type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> q. RAIL CAR <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> f. CAN <input type="checkbox"/> j. BAG <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> r. OTHER <input type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> g. CARBOY <input type="checkbox"/> k. BOX <input type="checkbox"/> o. TOTE BIN <input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> h. SILO <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> p. TANK WAGON

STORAGE PRESSURE 224
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT
STORAGE TEMPERATURE 225
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 < 1% 226	Ammonium Nitrate 227	<input type="checkbox"/> Yes <input type="checkbox"/> No 228	6484-52-2 229
2 230		<input type="checkbox"/> Yes <input type="checkbox"/> No 232	
3 234		<input type="checkbox"/> Yes <input type="checkbox"/> No 236	
4 238		<input type="checkbox"/> Yes <input type="checkbox"/> No 240	
5 242		<input type="checkbox"/> Yes <input type="checkbox"/> No 244	

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information. 246

ADDITIONAL LOCALLY COLLECTED INFORMATION

IF EPCRA, Please Sign Here

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
 2700 M STREET, SUITE 300
 BAKERSFIELD, CA 93301
 (661) 862-8700 Fax (661) 862-8701

Unified Program Consolidated Form (UPCF)
HAZARDOUS MATERIALS

(one page per material per building or area)

ADD

DELETE

REVISE

260

Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3	
PORT Organic Products LTD	
CHEMICAL LOCATION 201	CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
7501 Adohn Road	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
FACILITY ID # 1	MAP# (optional) 203 GRID# (optional) 204
FA 000 5811	

II. CHEMICAL INFORMATION

CHEMICAL NAME 205	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 206
Phosphonic Acid	<small>If Subject to EPCRA, refer to instructions</small>
COMMON NAME 207	EHS* <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 208
CAS# 209	<small>*If EHS if "Yes", all amounts below must be in pounds</small>
7732-18-5	

FIRE CODE HAZARD CLASSES (Not currently required by KCEHSD) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211	RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 212	CURIES 213
<input type="checkbox"/> a. PURE <input checked="" type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE		

PHYSICAL STATE (Check one item only) 214	LARGEST CONTAINER 215
<input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS	2700 gallons

FED HAZARD CATEGORIES (Check all that apply) 216
<input type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input type="checkbox"/> e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
32,097	32,097	None	←

UNITS* (Check one item only) 221	DAYS ON SITE: 222
<input type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input checked="" type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS	7
<small>* If EHS, amount must be in pounds.</small>	

STORAGE CONTAINER 223
<input checked="" type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> q. RAIL CAR <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> f. CAN <input type="checkbox"/> j. BAG <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> r. OTHER <input type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> g. CARBOY <input type="checkbox"/> k. BOX <input type="checkbox"/> o. TOTE BIN <input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> h. SILO <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> p. TANK WAGON

STORAGE PRESSURE 224
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT

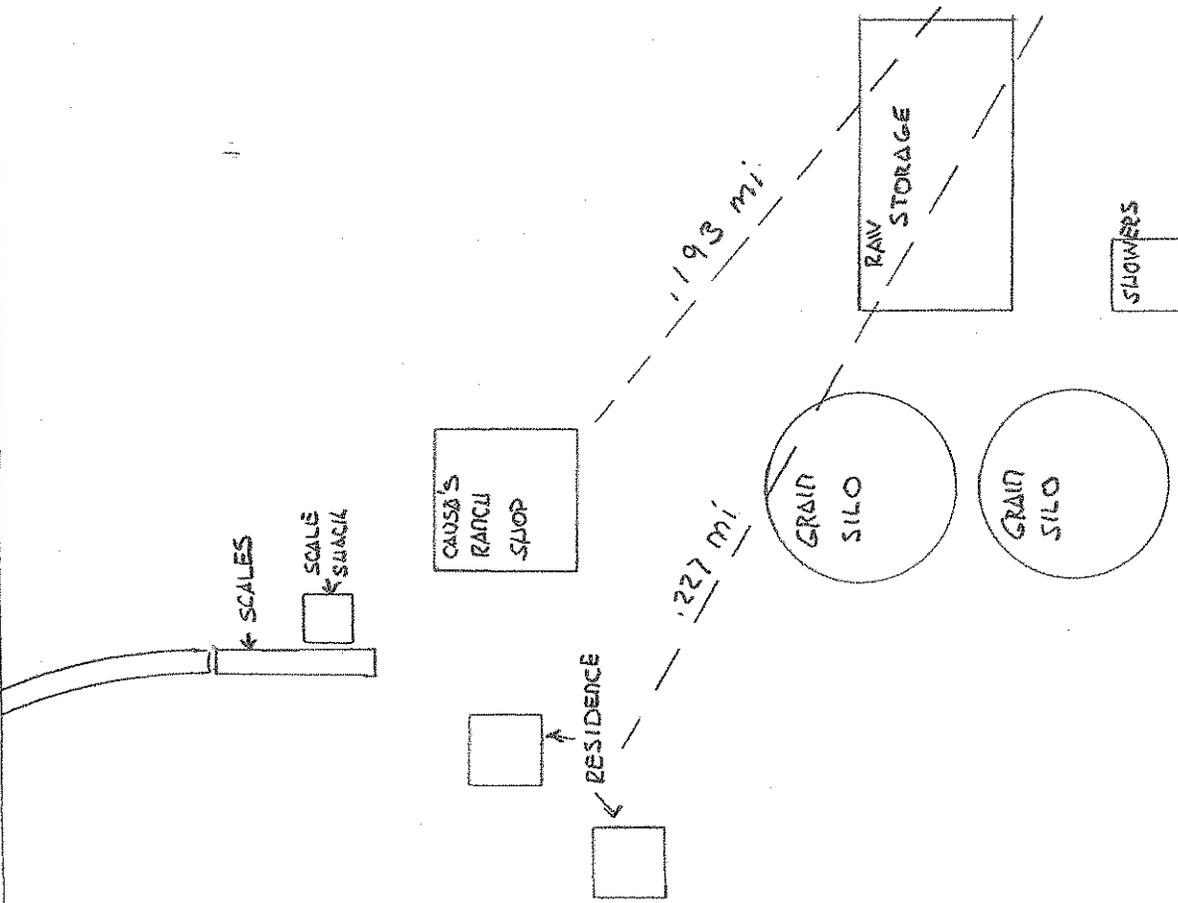
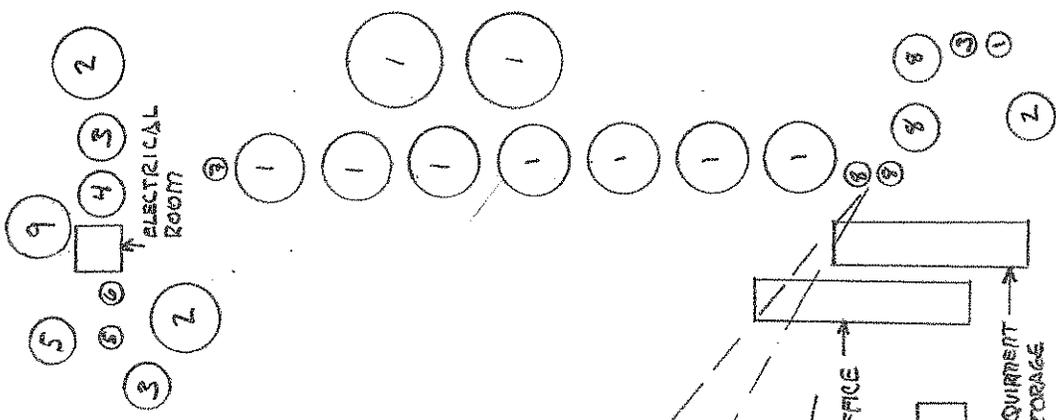
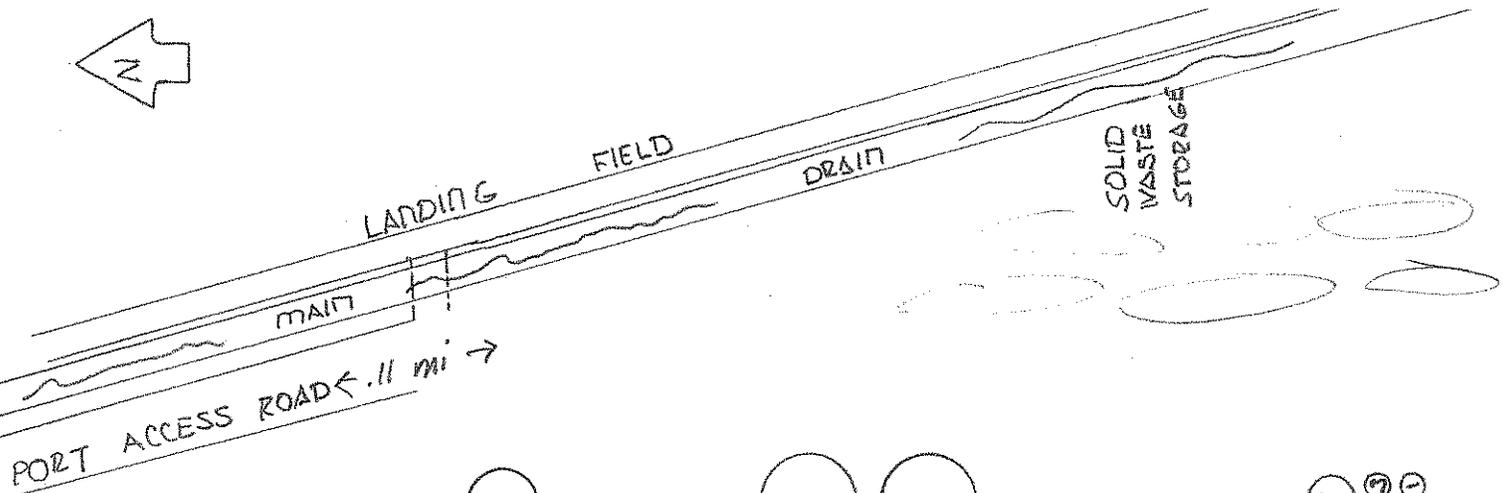
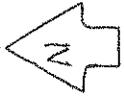
STORAGE TEMPERATURE 225
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226		<input type="checkbox"/> Yes <input type="checkbox"/> No 228	229
2 230		<input type="checkbox"/> Yes <input type="checkbox"/> No 232	233
3 234		<input type="checkbox"/> Yes <input type="checkbox"/> No 236	237
4 238		<input type="checkbox"/> Yes <input type="checkbox"/> No 240	241
5 242		<input type="checkbox"/> Yes <input type="checkbox"/> No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information. 246

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here



- LEGEND**
- 1 - FERTILIZER STORAGE 9 - HUMIC ACID
 - 2 - PROCESS TANKS
 - 3 - WATER STORAGE
 - 4 - SULFURIC ACID
 - 5 - PHOSPHORIC ACID
 - 6 - UREA - NH32
 - 7 - POTASSIUM HYDROXIDE



FA000581

PORT ORGANIC PRODUCTS LTD

[Environmental & Emergency Contacts](#)

Ba

[Owner & Business Information](#)

	Chemical Name	Location	Max Daily Amount	Unit of Measure
View	AMMONIA AQUA		12336.0000	Pounds
View	PHOSPHORIC ACID		32097.0000	Pounds
View	POTASSIUM HYDROXIDE		12800.0000	Pounds
View	SULFURIC ACID		90600.0000	Pounds
View	UN 32		16605.0000	Pounds

RMP Report for Port Organic Products Ltd.

Section 1. Registration Information

1.1 Source Identification: Facility ID: 74 There were no reportable accidents in the last 5 years.

a. Facility Name: Port Organic Products Ltd.

b. Parent Company #1 Name:

c. Parent Company #2 Name:

1.2 EPA Facility Identifier:

1.3 Other EPA Systems Facility ID: FA0005811

1.4 Dun and Bradstreet Numbers (DUNS):

a. Facility DUNS:

b. Parent Company #1 DUNS:

c. Parent Company #2 DUNS:

1.5 Facility Location Address:

a. Street 1: 7361 Adohr Road

b. Street 2:

c. City: Buttonwillow

d. State: CA

e. Zip: 93206 -

f. County: Kern

Facility Latitude and Longitude:

g. Lat. (dd.dddddd): 35.203410 h. Long. (ddd.dddddd): -119.235540

i. Lat/Long Method: P2 Public Land Survey - Quarter Section

j. Lat/Long Description: FC Facility Centroid

k. Horizontal accuracy measure (m): 1000

l. Horizontal Reference Datum Code: 001 North American Datum of 1927

m. Source Map Scale Number:

1.6 Owner or Operator:

a. Name: Kenneth N. Nelson Jr.

b. Phone: (661) 764-9670

Mailing address:

c. Street 1: PO Box 5203

d. Street 2:

e. City: Buttonwillow

f. State: CA

g. Zip: 93388 -

1.7 Name and title of person or position responsible for part 68 (RMP) implementation:

- a. Name of person: James J. Zaben
- b. Title of person or position: General Manager
- c. Email address: jzaben@bak.rr.com

1.8 Emergency contact:

- a. Name: Jim Zaben
- b. Title: General Manager
- c. Phone: (661) 764-9670
- d. 24-hour phone: (661) 201-9598
- e. Ext. or PIN:
- f. Email address: jzaben@bak.rr.com

1.9 Other points of contact:

- a. Facility or Parent Company E-Mail Address:
- b. Facility Public Contact Phone:
- c. Facility or Parent Company WWW Homepage Address:

1.10 LEPC: Region 5 LEPC Inland South

1.11 Number of full time employees on site: 7

1.12 Covered by:

- a. OSHA PSM: Yes
- b. EPCRA 302: No
- c. CAA Title V: No Air operating permit ID:

1.13 OSHA Star or Merit Ranking: No

1.14 Last Safety Inspection (by an External Agency) Date:

1.15 Last Safety Inspection Performed by an External Agency: OSHA

1.16 Will this RMP involve predictive filing?: No

1.18 RMP Preparer Information:

- a. Name: James J. Zaben
- b. Telephone: (661) 764-9670
- c. Street1: 7361 Adohr Road

Facility Name: Port Organic Products Ltd.
EPA ID

d. Street2:

e. City: Buttonwillow

f. State: CA g. ZIP: 93206 -

Section 1.17 Process(es)

a. Process ID: 145 Program Level 2 liquid organic fertilizer

b. NAICS Code

325314 Fertilizer (Mixing Only) Manufacturing

c. Process Chemicals

c.1 Process Chemical (ID / Name)	c.2 CAS Nr.	c.3 Qty (lbs.)
159 Ammonia (conc 20% or greater)	7664-41-7	12,336

Section 2. Toxics: Worst Case

Toxics: Worst Case ID 75

2.1 a. Chemical Name: Ammonia (conc 20% or greater)

b. Percent Weight of Chemical (if in a mixture):

2.2 Physical State: Liquid

2.3 Model used: EPA's RMP*Comp(TM)

2.4 Scenario: Liquid spill & Vaporization

2.5 Quantity released: 6,168 lbs

2.6 Release rate: 616.8 lbs/min

2.7 Release duration: 10.0 mins

2.8 Wind speed: 1.5 m/sec

2.9 Atmospheric Stability Class: F

2.10 Topography: Rural

2.11 Distance to Endpoint: 0.60 mi

2.12 Estimated Residential population within distance to endpoint: 7

2.13 Public receptors within distance to endpoint:

a. Schools:	No	d. Prisons/Correction facilities:	No
b. Residences:	Yes	e. Recreation areas:	No
c. Hospitals:	No	f. Major commercial, office or, industrial areas:	No

g. Other (Specify):

2.14 Environmental receptors within distance to endpoint:

- a. National or state parks, forests, or monuments: No
- b. Officially designated wildlife sanctuaries, preserves, or refuges: No
- c. Federal wilderness areas: No
- d. Other (Specify):

2.15 Passive mitigation considered:

- a. Dikes: No d. Drains: Yes
- b. Enclosures: No e. Sumps: No
- c. Berms: No f. Other (Specify):

2.16 Graphic file name:

Section 3. Toxics: Alternative Release

Toxics: Alternative Release ID: 70

3.1 a. Chemical Name: Ammonia (conc 20% or greater)

b. Percent Weight of Chemical (if in a mixture):

3.2 Physical State: Liquid

3.3 Model: EPA's RMP*Comp(TM)

3.4 Scenario: Vessel leak

3.5 Quantity released: 6,168 lbs

3.6 Release rate: 616.8 lbs/min

3.7 Release duration: 10.0 mins

3.8 Wind speed: 3.0 m/sec

3.9 Atmospheric Stability Class: D

3.10 Topography: Rural

3.11 Distance to Endpoint: 0.20 mi

3.12 Estimated Residential population within distance to endpoint: 7

3.13 Public receptors within distance to endpoint:

- a. Schools: No d. Prisons/Correction facilities: No
- b. Residences: Yes e. Recreation areas: No
- c. Hospitals: No f. Major commercial, office, or industrial areas: No
- g. Other (Specify):

3.14 Environmental receptors within distance to endpoint:

- a. National or state parks, forests, or monuments: No
- b. Officially designated wildlife sanctuaries, preserves, or refuges: No
- c. Federal wilderness areas: No

d. Other (Specify):

3.15 Passive mitigation considered:

a. Dikes:	No	d. Drains:	Yes
b. Enclosures:	No	e. Sumps:	Yes
c. Berms:	No	f. Other (Specify):	

3.16 Active mitigation considered:

a. Sprinkler systems:	No	f. Flares:	No
b. Deluge system:	No	g. Scrubbers:	No
c. Water curtain:	No	h. Emergency shutdown systems:	No
d. Neutralization:	No	i. Other (Specify):	
e. Excess flow valve:	No		

3.17 Graphic file name:

Section 4. Flammables: Worst Case --- No Data To Report

Section 5. Flammables: Alternative Release --- No Data To Report

Section 6. Accident History --- No Data To Report

Section 7. Prevention Program 3 --- No Data To Report

Section 8. Prevention Program 2

Process ID: 145 liquid organic fertilizer

Prevention Program ID: 27

Prevention Program Description: manufacturer of liquid organic fertilizer

8.1 NAICS Code: 325314

8.2 Chemicals: Chemical Name
 Ammonia (conc 20% or greater)

8.3 Safety Information:

a. The date of the most recent review or revision of the safety information: 04/12/2005

b. Select all Federal or state regulations or industry-specific design codes and standards used to demonstrate compliance with the safety information requirement:

NFPA 58 (or state law based on NFPA 58):	No	ANSI Standards:	No
OSHA (29 CFR 1910.111):	Yes	ASME Standards:	No
ASTM Standards:	No	None:	No

Other (Specify):

Comments:

8.4 Hazard review:

a. The date of completion of most recent hazard review or update: 04/12/2005

b. The expected or actual date of completion of all changes resulting from the hazard review: 07/12/2005

c. Major hazards identified:

Toxic release:	Yes	Overpressurization:	No	Earthquake:	Yes
Fire:	No	Corrosion:	No	Floods (flood plain):	No
Explosion:	No	Overfilling:	No	Tornado:	No
Runaway reaction:	No	Contamination:	No	Hurricanes:	No
Polymerization:	No	Equipment failure:	No	Other (Specify):	
		Loss of cooling, heating, electricity, instrument air:	No		

d. Process controls in use:

Vents:	No	Emergency air supply:	No	Other (Specify):	
Relief valves:	No	Emergency power:	No		
Check valves:	No	Backup pump:	No		
Scrubbers:	No	Grounding equipment:	No		
Flares:	No	Inhibitor addition:	No		
Manual shutoffs:	No	Rupture disks:	No		
Automatic shutoffs:	No	Excess flow device:	No		
Interlocks:	No	Quench system:	Yes		
Alarms and procedures:	No	Purge system:	No		
Keyed bypass:	No	None:	No		

e. Mitigation systems in use:

Sprinkler system:	No	Water Curtain:	No
Dikes:	No	Enclosure:	No
Fire walls:	No	Neutralization:	No
Blast walls:	No	None:	Yes
Deluge system:	No	Other (Specify):	

f. Monitoring/detection systems in use:

Process area detectors:	No	None:	Yes
Perimeter monitors:	No	Other (specify):	

g. Changes since last hazard review or hazard review update:

Reduction in chemical inventory:	No	Installation of perimeter monitoring systems:	No
----------------------------------	----	---	----

Increase in chemical inventory:	No	Installation of mitigation systems:	No
Change process parameters:	No	None recommended:	No
Installation of process controls:	No	None:	Yes
Installation of process detection systems:	No	Other (Specify):	

8.5 The date of the most recent review or revision of operating procedures: 04/12/2005

8.6 Training:

a. The date of the most recent review or revision of training programs: 05/11/2005

b. The type of training provided: Classroom: Yes On the job: No
 Other training (Specify):

c. The type of competency testing used:

Written tests:	Yes	Observation:	No
Oral tests:	No	Other (Specify):	
Demonstration:	No		

8.7 Maintenance:

a. The date of the most recent review or revision of maintenance procedures: 04/12/2005

b. The date of the most recent equipment inspection or test: 04/12/2005

c. Equipment most recently inspected or tested: Pumps, hoses, and valves

8.8 Compliance audits:

a. The date of the most recent compliance audit: 01/25/2007

b. Expected or actual date of completion of all changes resulting from the compliance audit: 07/12/2005

8.9 Incident investigation:

a. The date of the most recent incident investigation (if any):

b. Expected or actual date of completion of all changes resulting from the investigation:

8.10 The date of the most recent change that triggered a review or revision of safety information, the hazard review, operating or maintenance procedures, or training:

Section 9. Emergency Response

9.1 Written Emergency Response (ER) Plan:

a. Is facility included in written community emergency response plan?	Yes
b. Does facility have its own written emergency response plan?	Yes

9.2 Does facility's ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?	Yes
--	-----

- 9.3 Does facility's ER plan include procedures for informing the public and local agencies responding to accidental releases? Yes
- 9.4 Does facility's ER plan include information on emergency health care? Yes
- 9.5 Date of most recent review or update of facility's ER plan: 01/05/2005
- 9.6 Date of most recent ER training for facility's employees: 01/05/2005
- 9.7 Local agency with which facility's ER plan or response activities are coordinated:
- a. Name of agency: Kern County Fire Department
 - b. Telephone number: (661) 324-6551
- 9.8 Subject to:
- a. OSHA Regulations at 29 CFR 1910.38: Yes
 - b. OSHA Regulations at 29 CFR 1910.120: No
 - c. Clean Water Act Regulations at 40 CFR 112: No
 - d. RCRA Regulations at 40 CFR 264, 265, and 279.52: No
 - e. OPA-90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254: No
 - f. State EPCRA Rules/Law: No
 - g. Other (Specify):

Executive Summary

Executive Summary
Port Organic Products, Ltd.

EHS Procedure

NH3 Emergency Procedures
Emergency Procedures

Any accidental or unintentional release of ammonia to the atmosphere is an emergency. The seriousness depends on the amount release and the number of persons, animals or crops in the danger zone. Every bulk plant must have an emergency plan or procedure. EPA's Risk Management Program requires that local emergency responders be familiar with the plant's facilities and the methods for handling an ammonia emergency. Each employee must also be familiar with the emergency procedures. Most ammonia emergencies can be avoided. They are primarily caused by carelessness, error, or just plain negligence in maintaining or using equipment. Studies show the principle causes of ammonia emergencies are:

1. Broken riser pipes caused by driving off without disconnecting the hose.
2. Ruptured hoses caused by using faulty or damaged hoses.
3. Ruptured hoses caused by hydrostatic relief valves not operating properly.
4. Defective valves or inoperative excess flow valves. A defective valve can mean the difference between a minor release and the loss of an entire tank of ammonia.
5. Collision or upset of truck or nurse trailer.

Emergency Equipment

Self Contained Breathing Apparatus (SCBA) - Positive-pressure open-circuit until that has a full face-piece and

breathing air cylinder that will last up to 30 minutes.

These respirators must be used when entering or re-entering atmospheres of unknown ammonia concentrations or high concentrations that are known or suspected to be immediately dangerous to life and health. Use of this equipment should be limited to trained personnel only. The face-piece for this equipment must be fitted to the wearer.

Gas Masks -These full face-piece respirators utilize canisters that absorb the ammonia before it reaches the wearer. Canisters cannot be used in a high ammonia concentration; therefore, they should be used only for escape purposes in an emergency. At 300 ppm concentration in the atmosphere only a self-contained breathing apparatus (SCBA) will provide adequate protection.

Gloves, Boots, Raincoats, Jackets, and Pants - These should be made of rubber or other ammonia-proof material to prevent burns to the skin.

Detection Equipment - Various ammonia and oxygen detection equipment may be necessary to determine the safety of the atmosphere at or approaching the site of an ammonia release.

What to do in an Emergency

Remain calm, assess the situation and use extreme caution. (Note: All employees must be familiar with a facility's emergency response procedures.)

Call the police and fire departments.

1. Remove injured persons only if this can be done without injury to yourself.
2. Block off all other accesses to the emergency area.
3. Evacuate people from areas that may be affected by the emergency.
4. Detour motorists from downwind areas.

>>>The following should be attempted ONLY by trained personnel<<<

1. Approach the accident from upwind and shut off the valves if possible.
2. Apply a fog of water to the ammonia plume before it leaves the property.
3. Close the valves between the tank and the leak. This must be done by a trained person wearing a self-contained breathing apparatus and protective clothing.

Attach a life line (rope) that leads to a second person away from the leak. This person must also have an air-supplied respirator available in case the first respirator fails or for an additional rescue or emergency assistance. If the leak cannot be shut off by valves, continue spraying with water and transfer the product to other tanks.

4. Notify National Response Center immediately if the release of anhydrous ammonia is greater than 100 pounds at 800-424-8802. (Delay in reporting may result in substantial penalties.)
5. Notify state agencies as soon as possible.

What to do in case of Accident or Injury

Water and plenty of it is the only first aid treatment. If a person comes in contact with a spray of ammonia liquid or vapor, flushing with large quantities of clean water is essential. This is the reason why 5-gallon containers of water are carried on nurse trailers and applicators and large tanks of water or emergency showers are located at the bulk plant. These tanks must be large enough to completely submerge someone.

Contact with Skin and Mucous Membrane

Get the victim to clean water in a hurry. Put the injured part of the body under water or if necessary get the victim into the tank or under the shower. Remove clothing and shoes while in the water as clothing may be frozen to body. Continue flushing with water for at least 15 minutes. Under no conditions should salves or ointments be applied for at least 24 hours.

Contact with the Eyes

If even a small quantity of ammonia enters the eyes, flush with a large amount of clean water for at least 15 minutes. Hold the eyelids apart. Call a doctor. After the first 15-minute period of flushing, if a physician is not available, continue flushing for a second 15-minute period. Do not apply oils or oily ointments. Get the victim to a physician, preferably an eye specialist, as soon as possible.

Inhalation

Take the victim to an uncontaminated area. If the exposure has been slight concentrations for a short time, usually no treatment is required. When there is severe exposure to higher concentrations, oxygen can be administered, but only by qualified personnel or a physician. If the patient is not breathing, begin artificial

Facility Name: Port Organic Products Ltd.
EPA ID

respiration immediately and call the nearest hospital or doctor. Never attempt to give anything by mouth to an unconscious patient. Keep the victim warm (not hot), and have them rest.

Taken Internally

If liquid anhydrous ammonia has been swallowed, call a physician immediately. If the patient is conscious and able, he should drink large amounts of water to dilute the chemical. Do not induce vomiting if the patient is in shock, extreme pain or is unconscious. If vomiting begins, place the patient face down with head lower than hips. (This prevents vomit from entering the lungs and causing further injury or death.)

RMP Validation Errors/Warnings --- No Data To Report

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

MATTHEW CONSTANTINE, R.E.H.S., Director

2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301-2370
Voice: (661) 862-8700
Fax: (661) 862-8701
TTY Relay: (800) 735-2929
e-mail: eh@co.kern.ca.us



RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR

Community and Economic Development Department
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

January 25, 2007

**CERTIFIED UNIFIED PROGRAM AGENCY (CUPA)
HAZARDOUS MATERIAL INSPECTION FORM**

Date: 01/25/2007

Facility ID: FA0005811

File #: 001074

Facility Name: PORT ORGANIC PRODUCTS LTD			Inspection Type		
Site Address: 7361 ADHOR RD BUTTONWILLOW, CA 93206			<input checked="" type="checkbox"/> Routine		
Phone: (661)764-9670			<input type="checkbox"/> Reinspection		
			<input type="checkbox"/> Complaint		
PROGRAMS INSPECTED:	<input checked="" type="checkbox"/> Business Plan	<input checked="" type="checkbox"/> HW Generator	<input type="checkbox"/> UST	<input type="checkbox"/> AGT	<input checked="" type="checkbox"/> CalARP
REINSPECTION REQUIRED:	<input type="checkbox"/> Business Plan	<input type="checkbox"/> HW Generator	<input type="checkbox"/> UST	<input type="checkbox"/> AGT	<input type="checkbox"/> CalARP

VIOLATION

<u>YES</u>	<u>NO/NA</u>	<u>VIOL. #</u>	<u>BUSINESS PLAN REQUIREMENTS</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	BP01	Inventory of hazardous materials is accurate, up to date, and complete [HSC 6.95, 25504, Title 19 CCR 2729].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	BP02	Site layout/facility maps are accurate [HSC 6.95,25504; Title 19 CCR 2729].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	BP03	Hazardous materials are stored in properly labeled and non-deteriorated containers [HSC 25124(b)(3)(A & B)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	ER01	Contingency Plan is complete, updated, and maintained on site [HSC 6.95, 25504;Title 19 CCR 2731 Title 22 CCR 66265.53-54].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	ER02	Facility is operated and maintained to prevent/mitigate fire, explosion, or releases of hazardous material or waste which could threaten human health or the environment [Title 22 CCR 66265.31; Title 19 CCR 2731].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	ER03	Business has equipment required to, or appropriate for, safely handling hazardous materials [Title 22 CCR 66265.32 & .34].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	TR01	Facility has a training program appropriate for the size and complexity of business and nature of hazardous materials handled [Title 19 CCR 2732; Title 22 CCR 66265.16].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	TR02	Training documentation is maintained on site for current personnel. [Title 19 CCR 2732;22 CCR 66265.16].

COMMENTS: Go to <http://www.co.kern.ca.us/eh/cupaprogram.asp> for forms and information.

GPS Coordinates: Latitude:

Longitude:

INSPECTOR: KEVIN E BEAHM

DATE: 01/25/2007

HAZARDOUS WASTE GENERATOR

EPA ID NUMBER:

VIOLATIONS

YES	NO/NA	VIOL. #	GENERATOR REQUIREMENTS
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GR01	Generator has an EPA Identification number to treat, store, dispose, transport, or transfer hazardous waste [Title 22, CCR 66262.12].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GR02	The facility has made an appropriate waste determination for hazardous based on own knowledge or analysis or other [Title 22, CCR 66262.11]
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GR03	Facility Personnel demonstrate awareness of proper(legal) hazardous-waste handling procedures. [Title 22, CCR, 66262.34(d)(2)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GA01	Hazardous waste has not accumulated for more than 90/180/270 days(depending upon volume/circumstances) without the facility having a hazardous waste storage permit [Title 22,CCR, 66262.34(a).]
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GA02	Empty containers or inner liners greater than 5 gallons have dates when emptied and are managed properly within one year of date emptied [Title 22, CCR, 66261.7(f)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GA03	Universal waste is not accumulated at facility for more than one year [Title 22, CCR, 66273.15(a);66273.35(a)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GA04	The facility disposes used oil filters within 180 days of generation (or one year if less than 1 ton are accumulated) [Title 22, CCR, 66266.130(c)(4)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GA05	The facility disposes lead-acid batteries within 180 days of generation (or one year if less than 1 ton are accumulated) [Title 22, CCR, 66268.81(a)(6)]
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GC01	Hazardous waste storage containers are in good condition [Title 22, CCR, 66262.34(a)(1)(A)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GC02	Containers holding hazardous waste are closed/sealed except when adding/removing waste [Title 22, CCR, 66262.34(a)(1)(A)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GC03	The facility documents weekly inspections of hazardous waste storage area/containers [Title 22, CCR, 66265.15(d) and 66262.34(a)(1)(A)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GC04	The facility documents daily inspections of tanks where hazardous waste is stored [Title 22, CCR 66262.34(a)(1)(A)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GC05	The facility has adequate secondary containment for hazardous waste tank systems [Title 22, CCR 66262.34(a)(1)(A)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GC06	Containers utilizing satellite accumulation rules are at or near the point of generation [Title 22, CCR 66262.34(e)(1)(A)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GC07	Satellite wastes are managed according to the regulations (complete labeling, accumulation times, 55-gallon or 1 quart volume limits, etc.). [Title 22, CCR, 66262.34(e)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GR04	Manifests or LDRs are properly completed and/or retained by generator for 3 years [Title 22, CCR 66262.23(a)(1); 66263.42;66263.24;66262.34(a)(4)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GR05	The facility filed an exception report to DTSC after not receiving the signed TSDf copy of a manifest within 35 days [Title 22, CCR, 66262.42].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GR06	The facility has copies of bills of lading or receipts for removal of hazardous wastes [HSC 25160.2-Consolidated manifests/ 66266.81(a)(6)(B)-lead acid batteries/66266.130- oil filters]. The facility shall maintain copies of receipts for at least three years.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GR07	The facility submitted a hazardous waste recycling report [HSC 25143.10]
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GT01	The facility is conducting on-site treatment of hazardous waste with a tiered permit [HSC 25189.5(d)]
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GT02	Authorized, licensed, and certified hazardous waste haulers are used to transport hazardous waste to appropriate facilities [H&S Code Chapter 6.5 Section 25163].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GT03	Hazardous wastes are sent to authorized disposal facilities [HSC 25189.5].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GT04	Hazardous waste is not disposed to ground, water, or air [HSC 25189.5].

INSPECTOR: KEVIN E BEAHM

DATE: 01/25/2007

VIOLATIONS

<u>YES</u>	<u>NO/NA</u>	<u>VIOL. #</u>	<u>GENERATOR REQUIREMENTS</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GL01	Containers of hazardous waste are properly labeled (includes appropriate accumulation date, the words "HAZARDOUS WASTE," the waste composition/physical state, the hazardous properties, and name/address of generator) [Title 22, CCR, 66262.34(f)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GL02	Containers of excluded recyclable materials are properly labeled [HSC 25143.9(a)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GL03	Containers of universal waste are properly labeled. [Title 22, CCR, 66273.14 for SQH or 66273.34 for LQH].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GL04	Containers of drained used oil filters are labeled with the words "DRAINED USED OIL FILTERS" [Title 22, CCR, 66266.130(c)(3)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GL05	Accumulation dates are marked on spent lead-acid batteries [22CCR 66266.81]
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GL06	Tanks/containers of used oil destined for recycling are clearly marked with the words "USED OIL" [HSC 25143.9(a)].
<input type="checkbox"/>	<input checked="" type="checkbox"/>	GL07	Empty contaminated containers are clearly marked with the date they were emptied [Title 22, CCR, 66261.7(f)].

FACILITY NAME: PORT ORGANIC PRODUCTS LTD

ADDRESS: 7361 ADHCR RD
BUTTONWILLOW, CA 93206

FA ID: FA0005811
FILE ID: 001074

SUMMARY OF OBSERVATIONS/VIOLATIONS

- No violations of underground storage tank, hazardous materials, or hazardous waste laws/regulations were discovered. KERN CUPA greatly appreciates your efforts to comply with all the laws and regulations
- Violations were observed/discovered as listed below. All violations must be corrected by implementing the corrective action listed by each violation. If you disagree with any of the violations or corrective actions required, please inform the CUPA in writing.

ALL VIOLATIONS MUST BE CORRECTED WITHIN 30 DAYS OR AS SPECIFIED. CUPA must be informed in writing with a certification that compliance has been achieved. A false statement that compliance has been achieved is a violation of the law and punishable by a fine of not less than \$2,000 or more than \$25,000 for each violation. Your facility may be reinspected any time during normal business hours. If a second reinspection becomes necessary due to non compliance, a reinspection charge of \$85.00 per hour may be charged to the facility.

You may request a meeting with the Program Manager to discuss the inspection findings and/or the proposed corrective actions. The issuance of this Summary of Violations does not preclude the CUPA from taking administrative, civil, or criminal action.

FACILITY NAME: PORT ORGANIC PRODUCTS LTD

ADDRESS: 7361 ADHOR RD
BUTTONWILLOW, CA 93206

FA ID: FA0005811
FILE ID: 001074

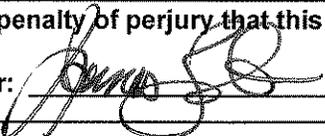
VIOLATIONS

VIOL. NO	VIOL. TYPE	CORRECTIVE ACTION REQUIRED
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INSPECTION COMMENTS:

INSPECTOR: KEVIN E BEAHM
DATE: 01/25/2007

SIGNATURE OF FACILITY REP:

Certification: I certify under penalty of perjury that this facility has complied with the corrective actions listed on this inspection form.		
Signature of Owner/Operator: 	Title: <u>Manager</u>	Date: <u>3/28/07</u>

Kern County Environmental Health Services Department
HAZARDOUS MATERIALS MANAGEMENT PROGRAM
CALIFORNIA ACCIDENTAL RELEASE PREVENTION PROGRAM
 2700 M Street, Suite 300, Bakersfield, CA 93301 • (661) 862-8700, Fax (661) 862-8701

CALARP INSPECTION REPORT

Facility ID: **FA0005811**

File #: **001074**

Facility Name: **PORT ORGANIC PRODUCTS LTD**

Inspection Date: **1-25-2007**

Street Address: **7361 ADOHR RD**

EPA ID No: _____

City: **BUTTONWILLOW, CA** Zip Code: **93206**

Number of Employees: _____

Facility Contact: **JIM ZABEN** Phone No. **(661) 764-9670**

E-Mail: _____

Refer to Title 19 of the California Code of Regulations (CCR) and Chapter 6.95 of the Health and Safety Code (CHSC), Section 112(r) of the Clean Air Act. The following risk factors are either present (Y), not present (N), or not addressed/unknown (N/A)

SURROUNDING POPULATIONS			DOCUMENT REVIEW				
	Y	N	N/A		Y	N	N/A
On-site Vulnerable Populations		x		Business Plan Current and Accurate:	x		
School within 1 mile		x		Emergency Response Plan	x		
Non-industrial Neighboring Uses: Farming				Process Hazard Analysis			
				Process Safety Management Elements: Safety Information, Hazard Review	x		
Immediate Neighbors: Farming				Operating Procedures			
				Training Records			
DETECTION AND MONITORING			MITIGATION EQUIPMENT				
	Y	N	N/A		Y	N	N/A
				Site Security: Fenced, Gated			

Inspection Narrative:

Process Description:

Port Organic Products is involved in the manufacture of liquid organic fertilizers. Liquid fish, phosphoric and sulfuric acids, UN32, potassium hydroxide, aqua ammonia and molasses are stored in tanks at ambient temperature. Fish, sulfate of potash, ammonia sulfate, xanthan gum, are stored in a covered warehouse. During the manufacturing the temperatures range from 110° F to 135° F in the batch tanks. All materials are utilized without any waste except for undigested fish solids which is transferred to a waste area for sale as compost.

Recommendations

Recalculate the quantity released and the release rate for the Worst Case Scenario and the Alternate Release Scenario in your RMP Submit. The correct data does not significantly alter the distance to endpoint.

Deficiencies / Violations

Operating Procedures must be more detailed outlining the specific valves and switches that are involved for each procedure.

NOTICE OF VIOLATION: THE VIOLATIONS NOTED ABOVE MUST BE CORRECTED WITHIN _____ DAYS. FAILURE TO COMPLY MAY RESULT IN LEGAL ACTION. THE CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED WITHIN THE TIME PERIOD NOTED ABOVE.

Inspector: KEVIN BEAHM

Report Date: 1-25-2007

Received by: MAILED

Title: _____

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

MATTHEW CONSTANTINE, R.E.H.S., Director

2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301-2370
Voice: (661) 862-8700
Fax: (661) 862-8701
TTY Relay: (800) 735-2929
e-mail: eh@co.kern.ca.us



RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR

Community and Economic Development Department
Engineering & Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

November 14, 2007

Kenneth Nelson
PORT ORGANIC PRODUCTS LTD
7361 Adhor Road
Buttonwillow, CA 93206

**SUBJECT: INSPECTION REPORT AND REPORT OF VIOLATIONS
FOR PORT ORGANIC PRODUCTS LTD
7361 ADHOR ROAD, BUTTONWILLOW, CA 93206**

On September 25, 2007 the Kern County Environmental Health Services Department (KCEHSD) conducted a complaint inspections/investigations at 7361 Adhor Rd, Buttonwillow, CA, at PORT ORGANIC PRODUCTS LTD. The enclosed inspection report details the observations and violations noted during the inspection/investigation. Violations of the California Health and Safety Code (HSC) noted during the inspection and corrective actions necessary to gain compliance are detailed in the enclosed report as well.

Please feel free to contact me at (661) 862-8725 with any questions or concerns you may have regarding this matter.

Sincerely,

Michael Aranda

Environmental Health Specialist
Unified Hazardous Materials/Waste Program

MA:Enclosure

INSPECTION REPORT

Date: 09-25-2007
Facility Name: PORT ORGANIC PRODUCTS LTD
Facility Address: 7361 Adhor Rd, Buttonwillow, CA 93206 EPA ID #: none
Specialist/Inspector: Michael Aranda Facility ID#: FA0005811

INVESTIGATION/INSPECTION NARRATION

On September 25, 2007 at approximately 1300 hours Barbara HOUGHTON and I visited Port Organic Products, located at 7361 Adhor Rd in Buttonwillow, to conduct a complaint investigation concerning mismanagement of hazardous waste generated at the facility, lack of Personal Protective Equipment (PPE) for employees, and the allegation of an unpermitted 10,000 gallon underground storage tank (UST) containing aqueous ammonia.

HOUGHTON and I entered the facility's office and spoke with Becky PULLEN, Shane AMES, and Isaac NELSON. HOUGHTON explained the reason for our visit and the allegations of the complaint. PULLEN stated that the allegations were probably provided by a disgruntled employee, John FAUBUS, who was recently terminated by Port Organic. I.NELSON stated that FAUBUS was escorted from the premises by Sheriff deputies on 9/24/07 for refusing to leave the facility grounds. I asked I.NELSON if HOUGHTON and I would be permitted to perform an inspection of the site to investigate the allegations. I.NELSON said he had no objection to us performing the inspection, but would need to obtain permission to consent to the inspection from Ken NELSON, owner/operator of Port Organic. I.NELSON also inquired as to what the inspection would entail. HOUGHTON explained to I.NELSON that we would conduct a routine inspection of the site and would consist of a review of the facility's records, a walk through of the facility, taking photographs, and possibly obtaining samples for analytical testing. I.NELSON asked what specific records we would need to review. I told him we would need to see their Business Plan documents, employee training records, Material Safety Data Sheets, Policy and Procedures manuals (for hazardous material), California Accidental Release Prevention Program (CalARPP) documents, and their Site/Facility Layout map. I.NELSON and AMES explained that Jim ZABEN, former Plant Manager of Port Organic, was the individual responsible for maintaining those documents, but ZABEN had ended his employment with Port Organic earlier in the month. I informed I.NELSON that ZABEN is listed as an emergency contact for Port Organic for our Department, and if ZABEN is no longer employed with Port Organic, the facility would need to update their emergency contact information. I.NELSON left the office to attempt to contact K.NELSON via cell phone. He returned shortly thereafter and stated K.NELSON had consented to allow HOUGHTON and I to perform the inspection, but K.NELSON requested to be present during the facility walk through. We agreed to wait for K.NELSON. I.NELSON and

AMES attempted to retrieve the requested documents.

When the documents were provided HOUGHTON and I reviewed the facility's MSDSs, Employee Policy and Procedure manual, Environmental Health and Safety manual, and laboratory analytical documents. While reviewing the documents, I.NELSON said Roy CARROL, Port Organic's environmental consultant, was en route to the facility to assist HOUGHTON and I with any questions or concerns we had while performing the inspection.

K.NELSON arrived at the facility and inquired as to the reason for our visit to Port Organic. I explained to him that HOUGHTON and I were investigating allegations of possible mismanagement of hazardous waste generated at the facility, lack of PPE for employees, and the allegation of an unpermitted 10,000 gallon underground storage tank containing aqueous ammonia. K.NELSON said that Port Organic does not generate any hazardous waste and has analytical records to support his comment. Additionally, K.NELSON stated there were no USTs at the site. K.NELSON informed me that occasionally employees do not follow the facility's safety protocols, but when that does occur the employee is penalized with reprimands, including leave without pay.

K.NELSON, HOUGHTON, and I began our site inspection at a barn just west of the facility's fertilizer processing yard. K.NELSON explained to us that fish meal is stored in the barn and is transferred from the barn to one of the facility's reactors, where the protein in the fish meal is enzymatically digested to release nitrogen and the by-product is used as an organic fertilizer. Along the west wall of the barn I observed four 55 gallon poly drums, labeled "ALCALASE" that were full. I asked K.NELSON what the Alcalase product was used for. He stated it is an ingredient used for their organic fertilizer, which assists with the breakdown of proteins. Along the east wall of the barn, next to the barn door, I observed an unlabeled white 55 gallon poly drum and two 55 gallon drums labeled hydraulic oil. I asked K.NELSON about the contents of the white poly drum and he informed me it contained waste oil. Along the north wall of the barn I observed two large compressed gas cylinders, one labeled "OXYGEN" and the other labeled "ACETYLENE". A review of the facility's most recent Hazardous Material Business Plan inventory, updated on February 13, 2007 by ZABAN, does not list Alcalase, waste oil, hydraulic oil, oxygen, or acetylene.

We exited the barn and walked back toward the fertilizer processing yard. Roy CARROL arrived at the facility shortly thereafter. K.NELSON explained to us how Port Organic's organic fertilizer is processed from raw materials such as fish meal and bat guano and mixed with specific enzymes and other ingredients. The breakdown of the raw materials results in an organic fertilizer that Port Organic sells to farming industries. K.NELSON explained that the processed product leaves the reactors and is fed through a screen, which separates the large undigested material from the finished product. The finished product is then plumbed into one of the aboveground storage tanks, located just south of the reactor and east of the office trailer. Directly east of the reactor were two aboveground tanks, one containing sulfuric acid and the other containing phosphoric acid. HOUGHTON asked what the acids were used for. K.NELSON

explained that the acids are used as stabilizers, which lower the pH of the processing material in the reactor. I asked K.NELSON if Port Organic had a written policy and procedure detailing how and when acid is added to the reactor. K.NELSON stated he was unaware of any such document on file at Port Organic, but that CARROL would look into the matter further and if necessary would develop and generate such protocols. K.NELSON said the process of when to add the acids "has not yet been perfected yet" and "we almost got it down". I asked K.NELSON to elaborate, and he stated that strong caustics and strong acids do not "mix well" and occasionally the acid is added to the process at the wrong time. K.NELSON also informed me that this had not happened in a long time.

Southeast of the reactor I observed waste water run-off pooling around a square drainage sump, with etched concrete around it. I asked K.NELSON where the sump leads to. He told me it is plumbed to an irrigation canal, located to the northeast of the processing plant. I asked K.NELSON if he could show me where the effluent drained to and he obliged. Along the irrigation canal I observed a metal drain pipe which K.NELSON indicated to be the drainage for his waste water run-off. The drain pipe was approximately two to two and half inches in diameter, designed to allow effluent to drain directly into the irrigation canal. K.NELSON stated he has an agreement with the neighboring farmers, to allow them to use his run-off, which according to K.NELSON contains "fertilizer". I informed K.NELSON that the run-off from his facility is considered industrial wastewater and that the current method of disposal does not comply with wastewater discharge requirements. I told K.NELSON he may need to explore the idea of implementing a wastewater reclamation system for the facility.

When returned to the processing area I asked K.NELSON where aqueous ammonia is stored at the facility. K.NELSON informed me there was no ammonia currently being stored at the facility. I asked K.NELSON if Port Organic was to store ammonia, where would it be stored. K.NELSON told me the ammonia would be stored in a tank directly south of the organic fertilizer tank farm. K.NELSON then told me the tanks which were used to store aqueous ammonia were not in use at this time, the former ammonia tank area was now being occupied by organic fertilizer tanks. I informed K.NELSON the change in the facility's operation may constitute a change in their process and would require Port Organic to notify KCEHSD of the change. I then asked K.NELSON if Port Organic had planned on storing aqueous ammonia in the near future, and he responded saying they would. I asked K.NELSON what he uses the ammonia for and he said "it's used for testing" of a "home & garden" product Port Organic plans to mass produce and sell commercially to the public. I then asked K.NELSON "is there any ammonia currently being stored on site?". K.NELSON said there was no ammonia being stored at the facility. CARROLL stated "there are no underground tanks anywhere on site."

We walked to the east of the processing area where I observed several large empty poly containers along the east fence line. One of the containers had a crack approximately three feet from the bottom of the tank. I asked I.NELSON about the crack and he stated the tank was hit with a forklift. I.NELSON then stated the tank was empty when it was struck by the forklift. I asked I.NELSON if he knew what type of substance the tank had previously stored, and he

informed me he believed it was used to store organic fertilizer. South of the office building I observed a two hundred and fifty (250) gallon tote labeled "DIESEL". I asked I.NELSON if the container did contain diesel and he replied "yes". A review of the facility's most recent Hazardous Material Business Plan inventory, updated on February 13, 2007 by ZABAN, does not list diesel.

I observed a scrubber system along the east fence line and asked K.NELSON what it was used for. He told me it was used to minimize the odor produced when organic fertilizers are put into holding tanks. I asked K.NELSON to further explain the process, but I was unable to understand his explanation.

I walked to the north, toward a red plywood structure, and asked K.NELSON what was in the structure. K.NELSON told me "it's a container." I asked K.NELSON if there was anything in the container, and in turn he asked I.NELSON if there was anything in the container. K.NELSON then said he believed the container was empty, but was not sure. K.NELSON then stated there might be product in the container. I asked K.NELSON what he meant by "product" and he stated there may be "aqua ammonia" in the tank. I then asked K.NELSON how much aqua ammonia was in the tank and he stated "about a thousand gallons". I asked K.NELSON about the containers capacity and the duration of time the container has been in the ground. K.NELSON said the container has a capacity of ten thousand gallons and had been placed in the ground approximately one month. I informed K.NELSON that the container in the ground constituted an underground storage tank and would therefore have to comply with applicable UST laws and regulations. I asked K.NELSON if he informed KCEHSD of the change in his process and he stated he had not. I asked K.NELSON if he had obtained permits and oversight by KCEHSD to place the tank in the ground and he stated he had not. CARROL exclaimed "this is not an underground storage tank". I informed CARROL and K.NELSON that if ten percent or more of the tank's capacity is below grade, it is considered to be an underground storage tank. CARROL stated he was unaware that the placing of the tank in the ground constituted the tank as being an underground storage tank. I again explained to CARROL and K.NELSON that based on UST laws and regulations, the placing of the tank into the ground meets the criteria of a UST. I asked K.NELSON why he placed the tank in the ground and he explained he had it put in the ground to reduce the amount of vapors produced. I asked K.NELSON if he could elaborate and he told me "the ground keeps it cool" thus decreasing the amount of vapors produced by the aqua ammonia in the tank. K.NELSON then said the ammonia was needed for the testing of his home and garden product, and as soon as the testing was complete they would not be using aqua ammonia.

I asked K.NELSON if he could remove the plywood on top of the plywood structure so that HOUGHTON and I could view the tank. K.NELSON agreed, and removed a section of the plywood at the northwest corner of the structure. Immediately after the removal of the plywood section I detected a noticeable odor of ammonia and experienced irritation of the eyes, mucus membrane linings of the nasal passages, airway and lungs. HOUGHTON asked K.NELSON if the tank was "product tight" and he responded in a manner to suggest he was unsure. I looked into the structure and observed a ten-thousand gallon fiberglass tank with fabricated metal

secondary containment. The dimensions of the tank measured approximately 10' in diameter with a 30' depth. HOUGHTON asked K.NELSON if the tank was properly sealed in order to prevent the release of contents. K.NELSON stated Port Organic had used sealant to ensure the port openings and valve connections were properly sealed and secured. I observed at the top of the tank a port opening lid secured with expansion foam. The expansion foam was used in an effort to minimize the potential for exposure resulting in human harm or release to the environment, I asked K.NELSON and CARROL to place the plywood back on the top of the structure and to not attempt to remove the UST. I informed K.NELSON that although the UST was placed in the ground without obtaining a Permit to Construct an Underground Storage Tank from KCEHSD, the UST was still under the permitting authority of KCEHSD. I told K.NELSON the tank would eventually have to be removed from the ground, because KCEHSD would not grant a UST permit to Port Organic for operation their UST. A permit would not be issued since the tank was installed without KCEHSD oversight and did not meet the requirements of Title 23 of the California Code of Regulations, governing the storage of hazardous substances in underground storage tanks . K.NELSON stated he would remove the tank from the ground, but would not do so until directed by KCEHSD. I told K.NELSON I did not want Port Organic to remove the tank from the ground until Port Organic provided me with a written procedure for the removal of the UST. I told K.NELSON and CARROL the procedures would need to include all hazards associated with the tank's removal, methods for inerting the tank, equipment to be used for its removal, applicable air monitoring, and policies and procedures addressing the removal process as well as workers' safety.

I then asked K.NELSON what his plans were for the aqua ammonia. He told me he was using it for testing of his home and garden fertilizer. I asked K.NELSON if he had done any recent testing. He told me he had. I asked K.NELSON what the testing process entails. He told me aqua ammonia is taken from the UST and transferred into a smaller aboveground tank (while pointing to a blue 100 gallon poly tank adjacent to the northeast reactor) and then injected into the reactor during the fertilizer production process. I asked K.NELSON if Port Organic had any written policy and procedure for the transfer and injection of the aqua ammonia into the reactor. K.NELSON stated Port Organic had no such written policy that he was aware of. I asked K.NELSON if Port Organic had any respiratory protection devices to be worn by the workers during the transfer and injection process. I.NELSON stated that Port Organic has a mask that the workers use. He and AMES led me to a container at the northwest corner of the office building and showed me an air purifying respirator (APR) with ammonia cartridges. I asked I.NELSON "how do the workers know when the cartridges are saturated and need to be replaced?" I.NELSON did not answer. I asked if there were any additional cartridges for the APR. AMES went into the office and retrieved two packaged ammonia cartridges. I informed I.NELSON that Port Organic may need to develop a respiratory protection plan for their employees.

HOUGHTON and I performed an exit interview with I. and K. NELSON, CARROL, AMES, and other Port Organic personnel.

REPORT OF VIOLATIONS

1. Violation of HSC 6.7, §25284 (a)(1). Failure to obtain a permit to own or operate an underground storage tank.

(a)(1) Except as provided in subdivision (c), no person may own or operate an underground storage tank unless a permit for its operation has been issued by the local agency to the owner or operator of the tank, or a unified program facility permit has been issued by the local agency to the owner or operator of the unified program facility on which the tank is located.

It was determined during the inspection that PORT ORGANIC PRODUCTS, LTD was operating a ten thousand (10,000) gallon fiberglass underground storage tank, containing approximately one thousand (1,000) gallons of aqueous ammonia without a permit from this Department.

2. Violation of HSC 6.95 §25503.5 (a)(1). Failure to provide an accurate, up to date, and complete hazardous materials inventory.

(a) (1) A business, except as provided in subdivisions (b), (c), and (d), shall establish and implement a business plan for emergency response to a release or threatened release of a hazardous material in accordance with the standards prescribed in the regulations adopted pursuant to Section 25503, if the business handles a hazardous material or a mixture containing a hazardous material that has a quantity at any one time during the reporting year that is any of the following:

(A) Equal to, or greater than, a total weight of 500 pounds or a total volume of 55 gallons.

(B) Equal to, or greater than, 200 cubic feet at standard temperature and pressure, if the substance is compressed gas.

At the time of the inspections PORT ORGANIC PRODUCTS, LTD had not listed Alcalase, waste oil, hydraulic oil, oxygen, acetylene, or diesel on its Business Plan chemical inventory as required.

3. Violation of HSC §25509 (a)(5). Failure to provide an accurate site layout/facility map.

(a) The annual inventory form shall include, but shall not be limited to, information on all of the following which are handled in quantities equal to or greater than the quantities specified in subdivision (a) of Section 25503.5:...

(5) Sufficient information on how and where the hazardous materials disclosed in paragraphs (1), (2), and (3) are handled by the business to allow fire, safety, health, and other appropriate personnel to prepare adequate emergency responses to potential releases of the hazardous materials.

PORT ORGANIC PRODUCTS, LTD intentionally relocated a ten thousand (10,000) gallon capacity aboveground tank formerly used to store aqueous ammonia aboveground, to an underground location on the facility. By performing this act Port Organic potentially endangered emergency response personnel by failing to supply sufficient information concerning where the aqueous ammonia was being stored at the site. Additionally, K.NELSON was reluctant to disclose the location of the aqueous ammonia tank. He initially stated Port Organic was not storing aqueous ammonia, that the aboveground tanks which had previously held aqueous ammonia were now being used to store organic fertilizer. Only after some probing did Port Organic Products LTD reveal the location of the underground tank containing aqueous ammonia.

CORRECTIVE ACTIONS

1. Immediately discontinue the operation of the ten thousand gallon fiberglass underground storage tank containing aqueous ammonia.
2. Immediately submit to this Department a written work plan which outlines procedures for the removal of the underground storage tank system.
3. Within thirty days update the hazardous material business plan inventory to include all chemicals, above threshold quantities, stored on site.
4. Within thirty days provide an accurate site map which provides sufficient information as to where Port Organic Products LTD stores and/or handles hazardous materials at 7361 Adhor Rd.

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

MATTHEW CONSTANTINE, R.E.H.S., Director

2700 "M" STREET, SUITE 300
BAKERSFIELD, CA 93301-2370
Voice: (661) 862-8700
Fax: (661) 862-8701
TTY Relay: (800) 735-2929
Web: www.co.kern.ca.us/eh
E-mail: eh@co.kern.ca.us



RESOURCE MANAGEMENT AGENCY

DAVID PRICE III, RMA DIRECTOR

Animal Control Department
Community and Economic Development Department
Engineering and Survey Services Department
Environmental Health Services Department
Planning Department
Roads Department

April 18, 2008

Mr. Kenneth Nelson
Port Organic Products LTD
c/o SHINAULT BAKER AND CO CPAs
5060 California Avenue, Suite 650
Bakersfield, CA 93309

**SUBJECT: SETTLEMENT AGREEMENT FOR PORT ORGANIC PRODUCTS, LTD
(BH 001-03-08)**

Dear Mr. Nelson:

This Department has completed the evaluation of all factors associated with the settlement of the administrative enforcement action being considered. Included with this correspondence is a settlement agreement entitled "Consent Order," which was previously discussed.

Enclosed you will find Revision 1 of the agreement that addresses the updated payment schedule that was recently discussed. You have again been provided with two signed Consent Order documents. One document is to be countersigned and returned to this office with the first payment of \$3,079.50. The other document is your copy.

If you have any questions, please contact the undersigned at (661) 862-8756.

Sincerely,

Joe Cañas, R.E.H.S.
Hazardous Materials Specialist IV
Unified Hazardous Materials/Waste Program

Enclosures

cc: File

1 KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
2 HAZARDOUS MATERIALS MANAGEMENT PROGRAM

3 CERTIFIED UNIFIED PROGRAM AGENCY (CUPA)
4

5 In the Matter of:) Docket No. BH 001-03-08
6 Port Organic Products LTD)
7 7361 Adhor Rd) **CONSENT ORDER – Revision 1**
8 Buttonwillow CA 93206)
9 Facility ID No. FA0005811)
10 Respondent) Health and Safety Code
11) Section 25404.1.1
12)

13 The Kern County Environmental Health Services Department, Certified Unified Program Agency
14 (Agency), and Port Organic Products LTD (Respondent) enter into this Consent Order (Order) and agree
15 as follows:

- 16 1.0 Respondent handles and/or stores hazardous materials and operates and/or operated an
17 Underground Storage Tank (UST) at 7361 Adhor Rd in Buttonwillow, California (Site).
18
- 19 2.0 The Agency inspected and/or investigated the Site on September 25, 2007.
- 20 3.0 The Agency alleges the following violations:
- 21 3.1 Respondent violated Health and Safety Code (HSC) Section 25284 (a)(1), failure
22 to obtain a permit from the Agency to own or operate an underground storage
23 tank.
24
- 25 3.2 The Respondent violated HSC Section 25503.5 (a)(1), failure to provide an
26 accurate, up to date, and complete hazardous materials inventory.
- 27 3.3 The Respondent violated HSC Section 25509, failure to provide an accurate site
28 layout/facility map.

- 1
- 2 4.0 A dispute exists regarding the alleged violations.
- 3 5.0 The parties wish to avoid the expense of litigation and to ensure prompt compliance.
- 4
- 5 6.0 Jurisdiction exists pursuant to HSC Section 25404.1.1.
- 6 7.0 Respondent waives any right to additional hearings in this matter.
- 7 8.0 This Consent Order shall constitute full settlement of the violations alleged above but
- 8 does not limit the Agency from taking appropriate enforcement action concerning other
- 9 violations.
- 10

11 **SCHEDULE FOR COMPLIANCE**

12 9.0 The following summarizes the schedule for compliance with this Consent Order:

13 9.1 The following items must be in compliance within the time frame specified:

14 9.1.2 Immediately discontinue the use of the unpermitted underground storage

15 tank and arrange for proper removal.

16

17 9.1.2 Within 30 days update Port Organic Products LTD hazardous materials

18 inventory to reflect all hazardous materials above regulatory threshold

19 quantities stored at the Site. The Department acknowledges receipt of the

20 updated chemical inventory within the prescribed deadline.

21 9.1.3 Within 10 days provide an accurate site layout/facility map which

22 discloses where hazardous materials are stored and handled at the Site.

23 The Department acknowledges receipt of the site map within the

24 prescribed compliance deadline.

25

26 9.2 All submittals pursuant to this Consent Order shall be sent to:

27 Mrs. Barbara Houghton

28 Kern County Environmental Health Services Department

Certified Unified Program Agency

2700 "M" Street, Suite 300

Bakersfield, CA 93301

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9.3 Communications: All communications from Agency shall be communicated to Respondent in writing by the Manager of the Kern County Environmental Health Services Department, Certified Unified Program Agency, or his/her designee. No informal advice, guidance, suggestions, or comments by the Agency regarding reports, plans, specifications, schedules, or any other writings by Respondent shall be construed to relieve Respondent of its obligation to obtain such formal approvals as may be required.

9.4 Compliance with Applicable Laws: Respondent shall carry out this Order in compliance with all local, State, and federal requirements, including but not limited to requirements to obtain permits and to assure worker safety.

9.5 Liability: Nothing in this Consent Order shall constitute or be construed as a satisfaction or release from liability for any conditions or claims arising as a result of past, current, or future operations of Respondent, except as provided in this Consent Order. Notwithstanding compliance with the terms of this Consent Order, Respondent may be required to take further actions as are necessary to protect public health or welfare or the environment.

9.6 Government Liabilities: The Kern County Environmental Health Services Department shall not be held liable for injuries or damages to persons or property resulting from acts or omissions by Respondent or related parties in carrying out activities pursuant to this Consent Order, nor shall the County of Kern be held as a party to any contract entered into by Respondent or its agents in carrying out activities pursuant to this Consent Order.

1 9.7 Extension Requests: If Respondent is unable to perform any activity or submit
2 any document within the time required under this Consent Order, the Respondent
3 may, prior to expiration of the time, request an extension of time in writing. The
4 extension request shall include a justification for the delay.
5

6 9.8 Extension Approvals: If the Agency determines that good cause exists for an
7 extension, it will grant the request and specify in writing a new compliance
8 schedule.
9

10 **PAYMENT**

11
12 10.0 Respondent shall pay the Agency a total of \$9238.50*, of which \$5,200 is penalty,
13 \$4,037.50 is reimbursement of this Agency's costs. The penalty must be paid in three
14 equal payments of \$3079.50 per month beginning in April 2008; the final payment is due
15 by June 30, 2008. Respondent's checks shall be made payable to the Kern County
16 Environmental Health Services Department and be delivered to:
17

18 Kern County Environmental Health Services Department
19 2700 "M" Street, Suite 300
20 Bakersfield, CA 93301

21 If Respondent fails to make payment as provided above, Respondent agrees to pay
22 interest at the rate established pursuant to HSC Section 25360.1 and to pay all costs
23 incurred by the Agency in pursuing collection, including attorney's fees.
24
25
26
27

28 _____
* Amount reflects previous payment by RP of \$297.50

1 **OTHER PROVISIONS**

2 11.0 Additional Enforcement Actions: By agreeing to this Consent Order, the Agency does not
3 waive the right to take further enforcement actions, except to the extent provided in this
4 Consent Order.

5 11.1 Penalties for Noncompliance: Failure to comply with the terms of this Consent
6 Order may subject Respondent to civil penalties and/or punitive damages for any
7 costs incurred by the Agency or other government agencies as a result of such
8 failure, as provided by HSC Section 25188 and other applicable provisions of law.

9 11.2 Parties Bound: This Consent Order shall apply to and be binding upon
10 Respondent and its officers, directors, agents, receivers, trustees, employees,
11 contractors, consultants, successors, and assignees, including, but not limited to,
12 individuals, partners, subsidiary and parent corporations, and upon the Agency
13 and any successor Agency that may have responsibility for and jurisdiction over
14 the subject matter of this Consent Order.

15 11.3 Effective Date: The effective date of this Consent Order is the date it is signed by
16 the Agency.

17 11.4. Integration: This agreement constitutes the entire agreement between the parties
18 and may not be amended, supplemented, or modified, except as provided in this
19 agreement.

20 11.5 Compliance with Waste Discharge Requirements: Respondent shall comply with
21 all applicable waste discharge requirements issued by the State Water Resources
22 Control Board or the California Regional Water Quality Control Board.

23
24
25 Dated: _____

Signature of Respondent's Representative

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Typed or Printed Name and Title
of Respondent's Representative

Dated: _____

Matthew Constantine, Director
Kern County Environmental Health
Services Department

COPY

Attention: Mike Aranda
Environmental Health Services Department
2700 "M" Street
Bakersfield, CA 93301

December 23, 2007

Immediately after Kern County Environmental Health Services Department Inspection, on September 25, 2007 @ Port Organic Products LTD. 7361 Adhor Road, Port Organic Products (POP), discontinued the operation of the ten thousand gallon fiberglass underground storage tank containing less than 300 gallons aqua ammonia.

Upon receiving verbal permission from Mike Aranda and requiring no UST removal permit for recent 10,000 gallon tank project partially expose and mostly buried, we started the following procedure.

Tank Closure Procedures Overview

POP personnel followed a health and safety plan specific to the hazards associated with the tank closure project.

The following procedures were used during our removal project: OSHA 2226 - Excavations, OSHA, 29 CFR Part 1926, Occupational Safety and Health Standards - Excavations, OSHA, 29 CFR Part 1910, Occupational Safety and Health Standards and NIOSH "Criteria for a Recommended Standard - Working in Confined Space."

Aqua Ammonia was removed from tank prior to tank removal and properly managed and converted into fertilizer by Ken Nelson. The tank was triple washed and inspected. After the tank had been exposed and all the liquids removed, monitoring of the atmosphere in the tank was performed for potentially dangerous conditions such as a gas, high vapor level and a low Oxygen content. No vapors were present. Tank cleaning consisted of wiping, squeegeeing, and removing all liquids to the last drop from the tank. All liquids generated as a result of the tank cleaning process were used in fertilizer mixture.

After tank cleaning, the tank was lifted via Eagle Trucking and Crane Service, Inc. in its entirety from the excavation and inspected aboveground. At this time no holes were noted in the tank, evidence of a release was not observed in the tanks steel secondary, the steel secondary was removed a few days later and no evidence of release were observed at this time. Also, a gas and fume detector was used and showed no reading of any detectable problems. The excavation was backfilled to original grade via backhoe rented from United Rental and 6 Truckloads of clean dirt purchased from Mashburn Transportation Services, Inc.

Our initial and immediate cost for removing tank and secondary has been \$ 5100.07 in equipment rental, BW Gas Alert Micro Multi-4 Gas Detector for future and dirt (see

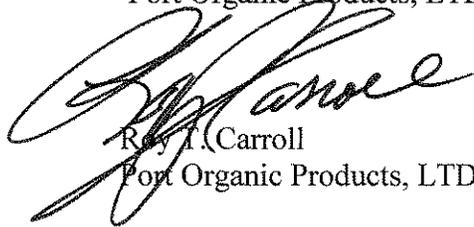
attached receipts) labor approximately \$ 3,500.00 to \$ 4,000.00. Our anticipated cost for labor & cutting up and salvaging steel secondary is estimated to be around \$ 3,000.00 to \$ 4,000.00.

We have tried our very best to address this violation head-on. It is important to us to maintain our livelihood and the livelihood of our many employees and customers who depend on us.

A fine or penalty of any kind would be a detriment to our monthly operating budget and us. We would like to ask that the money and the tremendous amount of effort we have put into this tank violation is a lesson well learned and one we will not repeat.

Sincerely,

Ken Nelson
Port Organic Products, LTD



Roy I. Carroll
Port Organic Products, LTD

**KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION**

02/06/2008

Page 1 of 2

FACILITY INFORMATION:

Site ID: 001074

Facility Name: PORT ORGANIC PRODUCTS LTD, FA0005811
Physical Location: 7361 ADHOR RD
City: BUTTONWILLOW, CA
Facility Phone: (661) 764-9670

OWNER INFORMATION FOR MAILING CORRESPONDENCE ONLY:

Name: PORT ORGANIC PRODUCTS LTD
In Care of: SHINAULT BAKER AND CO CPAs
Address: 5060 CALIFORNIA AVE #650
City, State, Zip: BAKERSFIELD, CA 93309
Contact's Phone: (661) 764-9670
Environmental Contact's
E-Mail Address: jzaben@bak.rr.com

BILLING INFORMATION ONLY:

Name: PORT ORGANIC PRODUCTS LTD
In Care of: SHINAULT BAKER AND CO CPAs
Address: 5060 CALIFORNIA AVE STE 650
City, State, Zip: BAKERSFIELD, CA 93309
Contact's Phone: _____

EMERGENCY CONTACT INFORMATION:

NAME:	TITLE:	NAME:	TITLE:
-------	--------	-------	--------

Day Phone: _____	Day Phone: _____
24 hr Phone: _____	24 hr Phone: _____

REGULATED ACTIVITIES AT THIS FACILITY:

Hazardous Material Business Plan
Hazardous Waste Generator, Less than 5,000 #/year EPA ID #: _____
CAL-ARP COMPLEX SINGLE CATEGORY MODERATE RISK

CERTIFICATION:

PLEASE CHECK ALL THAT APPLY:

- The most recently submitted hazardous materials business plan and inventory are complete, accurate, and current. There have been no changes in the quantity of any hazardous materials as previously reported. No hazardous materials subject to the inventory requirements are being handled that are not currently listed.
- I have enclosed a business plan and inventory for the facility described above.
- Other: _____

I certify, under penalty of perjury, that the information provided above is correct.

Printed Name

Title

Signature

Date

**KERN COUNTY ENVIRONMENTAL HEALTH SERVICES DEPARTMENT
HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION**

02/06/2008

Page 2 of 2

AMMONIA AQUA	12,336.00 LBS (POUNDS)	L
SULFURIC ACID	90,600.00 LBS (POUNDS)	L
POTASSIUM HYDROXIDE	12,800.00 LBS (POUNDS)	L
UN 32	16,605.00 LBS (POUNDS)	L
PHOSPHORIC ACID	32,097.00 LBS (POUNDS)	L
Ammonium Sulfate 21-0-0-24	100,000.00 LBS (POUNDS)	S
Sulfate of Potash	200,000.00 LBS (POUNDS)	S
Jenner 8 (Humic Substance)	6,000.00 GALLONS	L
Agrolizer (6-2-0) Liquid Organic Fertilizer	10,000.00 GALLONS	L
Marizyme Fishilizer (4-2-2) Liquid Organic Fertilizer	12,000.00 GALLONS	L
Marizyme Fishilizer (7-1-1) Liquid Organic Fertilizer	6,500.00 GALLONS	L
Marizyme Fishilizer (8-5-2) Liquid Organic Fertilizer	10,000.00 GALLONS	L
Liquid Fish Base	40,000.00 GALLONS	L



BC Laboratories, Inc.

Chain of Custody Form

Report To: **BC Laboratories** Project #: _____

Client: **Shelby Taylor** Project Name: _____

Street Address: **4100 Atlas Ct.** Project Code: _____

City/State/Zip: **Bakersfield, CA 93308** Sampler(s): _____

Phone: **552-4000** Fax: _____

Email Address: _____

Site #: _____

Sample # _____ Description _____

Date Sampled _____ Time Sampled _____

Analysis Requested

BIO ASSAY - F&T

46743

Page _____ of _____

Comments: **Sub for Aquatic**

Sample Matrix: Soil Sludge Drinking Water Ground Water Waste Water Other

Turnaround # of work days *
Are there any tests with holding times less than or equal to 48 hours?
 Yes No
* Standard Turnaround = 15 work days

Notes

Sample #	Description	Date Sampled	Time Sampled	Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days *	Notes
05-3842-1		9/18/05	09:56							8oz jar	
			0945								
			1012								
			1020								

Report Drinking Waters on State Form? Yes No

Send Copy to State of CA? Yes No

Sample Disposal: Return to Client Disposal by Lab Archive: _____ Months _____

Relinquished By: **Shelby Taylor** Date: **9/20/05** Time: **1:55**

Relinquished By: _____ Date: _____ Time: _____

Received By: **Shelby Taylor** Date: **9/21/05** Time: **1:53**

Received By: _____ Date: _____ Time: _____

Special Reporting: QC WIP Raw Data

PLEASE COMPLETE: BCL QUOTE ID: _____



BC Laboratories, Inc.

Chain of Custody Form

Client: Port Organic Products Project #: _____

Attn: Jim Zaben Project Name: Waste Fish

Street Address: PO Box 5203 Project Code: _____

City/State/Zip: Bakersfield, 93388 Sampler(s): Jim Zaben

Phone: 767-91670 Fax: 767-6719

Email Address: JZaben@Rock.RR.COM

SP# 05-3842

Sample # _____ Description _____ Date Sampled _____ Time Sampled _____

Analysis Requested

46753

Page 1 of 1

PLEASE COMPLETE:
PCL QUOTE ID: _____

Comments:

CAM 17 METALS
ISO 1/10000 R PH
BIODIAG - Fish Toxicity

Sample Matrix
Soil
Sludge
Drinking Water
Ground Water
Waste Water
Other

Turnaround # of work days*

Are there any tests with holding times less than or equal to 48 hours?
 Yes No
* Standard Turnaround = 15 work days

Notes

Sample #	Description	Date Sampled	Time Sampled	Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*	Notes
-1	Soil - S	4/18/05	0952 hrs	X	X	X	X	X	X		
-2	Soil - N	4/18/05	0945 hrs	X	X	X	X	X	X		
-3	Soil - E	4/18/05	1012 hrs	X	X	X	X	X	X		
-4	Soil - West	4/18/05	1026 hrs	X	X	X	X	X	X		

CHK BY: MPK
DISTRIBUTION: _____
SUB-OUT: X

Billings Same as above

Client: _____ Report Drinking Waters on State Form? Yes No

Address: _____ Send Copy to State of CA? Yes No

City: _____ State _____ Zip _____

Attn: _____ Yes No

PO#: _____

Sample Disposal

Return to Client

Disposal by lab

1. Relinquished By: MPK

2. Relinquished By: MPK

3. Relinquished By: _____

Archive: _____ Months

1. Received By: MPK

2. Received By: MPK

3. Received By: _____

Special Reporting GC WIP Raw Data

Date: 4/19/05 Time: 08:00

Date: 4/19/05 Time: 08:00

Date: _____ Time: _____

Date: _____ Time: _____

Date: _____ Time: _____

Submission #: 05-3842

Project Code:

TB Batch #

SHIPPING INFORMATION

Federal Express UPS Hand Delivery
BC Lab Field Service Other (Specify)

SHIPPING CONTAINER

Ice Chest None
Box Other (Specify)

Refrigerant: Ice Blue Ice None Other Comments:

Custody Seals: Ice Chest Containers None Comments:
Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Ice Chest ID Emissivity 0.85
Temperature: 15.4 °C Container Clear Glass Jar
Thermometer ID: TH80

Date/Time 4/19/05 08:05
Analyst Init P.V.

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 801SM										
QT QA/QC										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR	A	A	A	A						
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: AV Date/Time: 4/19/05 08:05



Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Laboratory / Client Sample Cross Reference

Laboratory Client Sample Information

0503842-01 COC Number: ---
Project Number: ---
Sampling Location: ---
Sampling Point: SOIL-S
Sampled By: Jim Zaben
Receive Date: 04/19/05 08:05
Sampling Date: 04/18/05 09:56
Sample Depth: ---
Sample Matrix: Solids
Waste Type: Type I: Millable solid - No
Free Liquid

0503842-02 COC Number: ---
Project Number: ---
Sampling Location: ---
Sampling Point: SOIL-N
Sampled By: Jim Zaben
Receive Date: 04/19/05 08:05
Sampling Date: 04/18/05 09:45
Sample Depth: ---
Sample Matrix: Solids
Waste Type: Type I: Millable solid - No
Free Liquid

0503842-03 COC Number: ---
Project Number: ---
Sampling Location: ---
Sampling Point: SOIL-E
Sampled By: Jim Zaben
Receive Date: 04/19/05 08:05
Sampling Date: 04/18/05 10:12
Sample Depth: ---
Sample Matrix: Solids
Waste Type: Type I: Millable solid - No
Free Liquid

0503842-04 COC Number: ---
Project Number: ---
Sampling Location: ---
Sampling Point: SOIL-WEST
Sampled By: Jim Zaben
Receive Date: 04/19/05 08:05
Sampling Date: 04/18/05 10:26
Sample Depth: ---
Sample Matrix: Solids
Waste Type: Type I: Millable solid - No
Free Liquid

BC Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com



BC Laboratories, Inc

Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Chemical Analysis

BCL Sample ID: 0503842-01 Client Sample Name: SOIL-S, 4/18/05 9:56:00AM, Jim Zaben

Constituent	Result	Units	POL	MDL	Method	Date	Date/Time	Analyst	Instrument ID	Dilution	Batch ID	QC	MB	Lab
1	6.69	pH Units	0.05		EPA-9040	04/25/05	04/25/05 09:40	JSM	B360	1	BOD1194			pH1:1

BC Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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BC Laboratories, Inc

Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Total Concentrations (TTLc)

BCL Sample ID: 0503842-01 Client Sample Name: SOIL-S, 4/18/05 9:56:00AM, Jim Zaben

Constituent	Result	Units	PQL	MDL	Method	Date	Date/Time	Analyst	Instru- ment ID	Dilution	Batch ID	QC	MIB	Lab	Quals
Antimony	ND	mg/kg	5.0		EPA-6010B	04/28/05	05/03/05 00:49	JCC	TJA61E	0.97	BOD1505		0.32	A02	
Arsenic	2.2	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		ND		
Barium	53	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		0.015		
Beryllium	ND	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		0.019		
Cadmium	1.3	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		ND		
Chromium	16	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		ND		
Cobalt	2.9	mg/kg	2.5		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		ND		
Copper	24	mg/kg	2.0		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		0.42		
Lead	5.7	mg/kg	2.5		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		0.053		
Mercury	ND	mg/kg	0.14		EPA-7471A	04/28/05	05/01/05 11:30	DIW	TSP1	0.89	BOD1498		0.0055		
Molybdenum	ND	mg/kg	2.5		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		ND		
Nickel	9.9	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		ND		
Selenium	0.65	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		0.068		
Silver	ND	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		ND		
Thallium	ND	mg/kg	5.0		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		0.44		
Vanadium	32	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		ND		
Zinc	170	mg/kg	2.5		EPA-6010B	04/28/05	04/30/05 01:29	JCC	TJA61E	0.97	BOD1505		0.13		

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BC Laboratories, Inc

Port Organic Prop
P. O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Chemical Analysis

BCL Sample ID: 0503842-02 Client Sample Name: SOIL-N, 4/18/05 9:45:00AM, Jim Zaben

Constituent	Result	Units	PQL	MDL	Method	Date	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	Batch ID	QC	MB	Lab
	6.74	pH Units	0.05		EPA-9040	04/25/05	04/25/05	09:40	JSM	B360	1	BOD1194			pH1:1

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BC Laboratories, Inc

Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Total Concentrations (TTLc)

BCL Sample ID: 0503842-02 Client Sample Name: SOIL-N, 4/18/05 9:45:00AM, Jim Zaben

Constituent	Result	Units	PQL	MDL	Method	Date	Prep	Run	Analyst	Instru-	Dilution	Batch ID	QC	MB	Lab
							Date/Time	Date/Time							
Antimony	ND	mg/kg	10		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		0.63	A01, Q01
Arsenic	1.1	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		ND	A01
Barium	14	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		0.029	A01
Beryllium	ND	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		0.039	A01
Cadmium	ND	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		ND	A01
Chromium	10	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		ND	A01
Cobalt	ND	mg/kg	5.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		ND	A01
Copper	32	mg/kg	4.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		0.84	A01
Lead	ND	mg/kg	5.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		0.11	A01
Mercury	ND	mg/kg	0.16		EPA-7471A	04/28/05	05/01/05	11:30	DIW	TSP1	0.92	BOD1498		0.0057	A01
Molybdenum	ND	mg/kg	5.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		ND	A01
Nickel	3.8	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		ND	A01
Selenium	1.7	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		0.14	A01
Silver	ND	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		ND	A01
Thallium	ND	mg/kg	10		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		0.88	A01
Vanadium	14	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		ND	A01
Zinc	96	mg/kg	5.0		EPA-6010B	04/28/05	05/03/05	00:56	JCC	TJA61E	1.94	BOD1505		0.26	A01

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BC Laboratories, Inc

Port Organic Prop
P. O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Chemical Analysis

BCL Sample ID: 0503842-03 Client Sample Name: SOL-E, 4/18/05 10:12:00AM, Jim Zaben

Constituent	Result	Units	POL	MDL	Method	Date	Prep	Run	Analyst	Instru-	ment ID	Dilution	Batch ID	QC	MS	Bias	Lab
							Date/Time	Date/Time									
	6.78	pH Units	0.05		EPA-9040	04/25/05	04/25/05	09:40	JSM	B360	1	BOD1194					pH1:1

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BC Laboratories, Inc

Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Total Concentrations (TTLc)

BCL Sample ID: 0503842-03 Client Sample Name: SOIL-E; 4/18/05 10:12:00AM, Jim Zaben

Constituent	Result	Units	PAL	MDL	Method	Prep	Run	Analyst	Instru-	Dilution	Batch ID	MB	Lab
						Date	Date/Time						
Antimony	ND	mg/kg	5.0		EPA-6010B	04/28/05	05/03/05 01:02	JCC	TJA61E	0.96	BOD1505	0.31	A02
Arsenic	2.7	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	ND	
Barium	51	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	0.014	
Beryllium	ND	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	0.019	
Cadmium	2.7	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	ND	
Chromium	20	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	ND	
Cobalt	3.0	mg/kg	2.5		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	ND	
Copper	30	mg/kg	2.0		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	0.42	
Lead	7.9	mg/kg	2.5		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	0.053	
Mercury	ND	mg/kg	0.14		EPA-7471A	04/28/05	05/01/05 11:30	DIW	TSP1	0.89	BOD1498	0.0055	
Molybdenum	ND	mg/kg	2.5		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	ND	
Nickel	11	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	ND	
Selenium	0.53	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	0.067	
Silver	ND	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	ND	
.halium	ND	mg/kg	5.0		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	0.44	
Vanadium	38	mg/kg	0.50		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	ND	
Zinc	160	mg/kg	2.5		EPA-6010B	04/28/05	04/30/05 01:42	JCC	TJA61E	0.96	BOD1505	0.13	

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Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Chemical Analysis

BCL Sample ID: 0503842-04 Client Sample Name: SOIL-WEST, 4/18/05 10:26:00AM, Jim Zaben

Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Instrument ID	Dilution	Batch ID	QC	MB	Blas	Lab
						Date	Date/Time							
pH	4.98	pH Units	0.05		EPA-9040	04/25/05	04/25/05 09:40	JSM	B360	1	BOD1194			pH1:1

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BC Laboratories, Inc

Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Total Concentrations (TTLc)

BCL Sample ID: 0503842-04 Client Sample Name: SOIL-WEST_4/18/05 10:26:00AM, Jim Zaben

Constituent	Result	Units	PAL	MDL	Method	Prep		Run		Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
						Date	Date/Time	Analyst	ment ID					
Iron	ND	mg/kg	10		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	0.64	A01, A02
Arsenic	ND	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	ND	A01
Barium	29	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	0.030	A01
Beryllium	ND	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	0.040	A01
Cadmium	ND	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	ND	A01
Chromium	6.0	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	ND	A01
Cobalt	ND	mg/kg	5.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	ND	A01
Copper	18	mg/kg	4.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	0.86	A01
Lead	ND	mg/kg	5.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	0.11	A01
Mercury	ND	mg/kg	0.13		EPA-7471A	04/28/05	05/01/05	11:30	DIW	TSP1	0.82	BOD1498	0.0051	A01
Molybdenum	ND	mg/kg	5.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	ND	A01
Nickel	3.7	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	ND	A01
Selenium	2.1	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	0.14	A01
Silver	ND	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	ND	A01
Thallium	ND	mg/kg	10		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	0.90	A01
Vanadium	4.6	mg/kg	1.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	ND	A01
Zinc	120	mg/kg	5.0		EPA-6010B	04/28/05	05/03/05	01:28	JCC	TJA61E	1.98	BOD1505	0.27	A01

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BC Laboratories, Inc

Port Organic Prop
P. O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Chemical Analysis

Quality Control Report - Precision & Accuracy

Instituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	Control Limits	
								Percent Recovery	RPD Recovery/Lab Quali
pH	BOD1194	BOD1194-DUP1	Duplicate	7.4430	7.4680		pH Units	0.335	200

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BC Laboratories, Inc

Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Total Concentrations (TTLc)

Quality Control Report - Precision & Accuracy

Instituent	Batch ID	QC Sample ID	QC Sample Type	Source		Spike Added	Units	RPD	Percent		Control Limits	
				Result	Result				Recovery	RPD	Recovery	RPD
Mercury	BOD1498	BOD1498-DUP1	Duplicate	0.068647	0.068647		mg/kg	0.00		20		85 - 115
		BOD1498-MS1	Matrix Spike	0.068647	0.71775	0.71429	mg/kg	90.9		20		
		BOD1498-MSD1	Matrix Spike Duplicate	0.068647	0.71775	0.71429	mg/kg	0.00	90.9		20	
Antimony	BOD1505	BOD1505-DUP2	Duplicate	0.51961	0.34314		mg/kg	40.9		20		A02
		BOD1505-MS2	Matrix Spike	0.51961	37.686	98.039	mg/kg	37.9		20		16 - 119 A02
		BOD1505-MSD2	Matrix Spike Duplicate	0.51961	36.505	98.039	mg/kg	3.22	36.7		20	
Arsenic	BOD1505	BOD1505-DUP1	Duplicate	2.8627	2.7059		mg/kg	5.63		20		75 - 125
		BOD1505-MS1	Matrix Spike	2.8627	7.0490	4.9020	mg/kg	85.4		20		75 - 125
		BOD1505-MSD1	Matrix Spike Duplicate	2.8627	7.2892	4.9020	mg/kg	5.58	90.3		20	
Barium	BOD1505	BOD1505-DUP1	Duplicate	61.863	64.069		mg/kg	3.50		20		75 - 125
		BOD1505-MS1	Matrix Spike	61.863	161.16	98.039	mg/kg	101		20		75 - 125
		BOD1505-MSD1	Matrix Spike Duplicate	61.863	157.06	98.039	mg/kg	3.94	97.1		20	
Beryllium	BOD1505	BOD1505-DUP1	Duplicate	0.38725	0.39706		mg/kg	2.50		20		75 - 125
		BOD1505-MS1	Matrix Spike	0.38725	10.142	9.8039	mg/kg	99.5		20		75 - 125
		BOD1505-MSD1	Matrix Spike Duplicate	0.38725	10.054	9.8039	mg/kg	0.909	98.6		20	
Cadmium	BOD1505	BOD1505-DUP1	Duplicate	ND	ND		mg/kg	20		20		75 - 125
		BOD1505-MS1	Matrix Spike	ND	9.3039	9.8039	mg/kg	94.9		20		75 - 125
		BOD1505-MSD1	Matrix Spike Duplicate	ND	9.3873	9.8039	mg/kg	0.944	95.8		20	
Chromium	BOD1505	BOD1505-DUP1	Duplicate	5.3578	6.0147		mg/kg	11.6		20		75 - 125
		BOD1505-MS1	Matrix Spike	5.3578	101.47	98.039	mg/kg	98.0		20		75 - 125
		BOD1505-MSD1	Matrix Spike Duplicate	5.3578	99.951	98.039	mg/kg	1.54	96.5		20	
Cobalt	BOD1505	BOD1505-DUP1	Duplicate	1.7059	1.8775		mg/kg	9.58		20		75 - 125
		BOD1505-MS1	Matrix Spike	1.7059	96.324	98.039	mg/kg	96.5		20		75 - 125
		BOD1505-MSD1	Matrix Spike Duplicate	1.7059	96.275	98.039	mg/kg	0.00	96.5		20	
Copper	BOD1505	BOD1505-DUP1	Duplicate	17.775	15.260		mg/kg	15.2		20		75 - 125
		BOD1505-MS1	Matrix Spike	17.775	136.03	98.039	mg/kg	121		20		75 - 125
		BOD1505-MSD1	Matrix Spike Duplicate	17.775	117.84	98.039	mg/kg	17.0	102		20	
Lead	BOD1505	BOD1505-DUP1	Duplicate	4.4412	4.2157		mg/kg	5.21		20		75 - 125
		BOD1505-MS1	Matrix Spike	4.4412	96.422	98.039	mg/kg	93.8		20		75 - 125
		BOD1505-MSD1	Matrix Spike Duplicate	4.4412	95.000	98.039	mg/kg	1.50	92.4		20	

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BC Laboratories, Inc

Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Total Concentrations (TTLc) Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	RPD	Control Limits		
									Percent Recovery	RPD	Percent Recovery
Molybdenum	BOD1505	BOD1505-DUP1	Duplicate	ND	ND		mg/kg			20	75 - 125
	BOD1505	BOD1505-MS1	Matrix Spike	ND	87.353	98.039	mg/kg		89.1		75 - 125
	BOD1505	BOD1505-MSD1	Matrix Spike Duplicate	ND	87.157	98.039	mg/kg	0.225	88.9	20	75 - 125
Nickel	BOD1505	BOD1505-DUP1	Duplicate	2.4951	2.9020		mg/kg	15.1		20	75 - 125
	BOD1505	BOD1505-MS1	Matrix Spike	2.4951	97.157	98.039	mg/kg		98.6		75 - 125
	BOD1505	BOD1505-MSD1	Matrix Spike Duplicate	2.4951	97.647	98.039	mg/kg	0.516	97.1	20	75 - 125
Selenium	BOD1505	BOD1505-DUP1	Duplicate	ND	ND		mg/kg			20	75 - 125
	BOD1505	BOD1505-MS1	Matrix Spike	ND	3.7451	4.9020	mg/kg	16.5	76.4		75 - 125
	BOD1505	BOD1505-MSD1	Matrix Spike Duplicate	ND	4.4167	4.9020	mg/kg		90.1	20	75 - 125
Silver	BOD1505	BOD1505-DUP1	Duplicate	ND	ND		mg/kg			20	75 - 125
	BOD1505	BOD1505-MS1	Matrix Spike	ND	9.0049	9.8039	mg/kg	0.434	91.9		75 - 125
	BOD1505	BOD1505-MSD1	Matrix Spike Duplicate	ND	9.0441	9.8039	mg/kg		92.3	20	75 - 125
Thallium	BOD1505	BOD1505-DUP1	Duplicate	0.50980	0.61765		mg/kg	19.1		20	75 - 125
	BOD1505	BOD1505-MS1	Matrix Spike	0.50980	95.343	98.039	mg/kg		96.7		75 - 125
	BOD1505	BOD1505-MSD1	Matrix Spike Duplicate	0.50980	93.971	98.039	mg/kg	1.46	95.3	20	75 - 125
Vanadium	BOD1505	BOD1505-DUP1	Duplicate	8.8137	9.5294		mg/kg	7.80		20	75 - 125
	BOD1505	BOD1505-MS1	Matrix Spike	8.8137	103.87	98.039	mg/kg		97.0		75 - 125
	BOD1505	BOD1505-MSD1	Matrix Spike Duplicate	8.8137	102.65	98.039	mg/kg	1.35	95.7	20	75 - 125
Zinc	BOD1505	BOD1505-DUP1	Duplicate	26.137	26.564		mg/kg	1.62		20	75 - 125
	BOD1505	BOD1505-MS1	Matrix Spike	26.137	134.31	98.039	mg/kg		110		75 - 125
	BOD1505	BOD1505-MSD1	Matrix Spike Duplicate	26.137	121.18	98.039	mg/kg	12.7	96.9	20	75 - 125

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BC Laboratories, Inc

Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Chemical Analysis

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Control Limits	
								Percent Recovery	RPD
µrd	BOD1194	BOD1194-BS1	LCS	6.9760	7.0000	0.05	pH Units	99.7	0 - 200

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Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Instituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	Control Limits	
									RPD	Lab Quas
Mercury	BOD1498	BOD1498-BS1	LCS	1.3037	1.5700	0.14	mg/kg	83.0	75 - 125	
Antimony	BOD1505	BOD1505-BS2	LCS	0.032200	0.033330	0.10	mg/kg	96.6	75 - 125	
Arsenic	BOD1505	BOD1505-BS1	LCS	0.19240	0.20900	0.010	mg/kg	92.1	75 - 125	
Barium	BOD1505	BOD1505-BS1	LCS	1.8650	1.8610	0.010	mg/kg	99.1	75 - 125	
Beryllium	BOD1505	BOD1505-BS1	LCS	0.11070	0.12100	0.010	mg/kg	91.5	75 - 125	
Cadmium	BOD1505	BOD1505-BS1	LCS	0.10960	0.11110	0.010	mg/kg	98.6	75 - 125	
Chromium	BOD1505	BOD1505-BS1	LCS	0.26820	0.27720	0.010	mg/kg	96.8	75 - 125	
Cobalt	BOD1505	BOD1505-BS1	LCS	0.18930	0.17930	0.050	mg/kg	106	75 - 125	
Copper	BOD1505	BOD1505-BS1	LCS	0.26640	0.28490	0.040	mg/kg	93.5	75 - 125	
Lead	BOD1505	BOD1505-BS1	LCS	0.21220	0.19470	0.050	mg/kg	109	75 - 125	
Molybdenum	BOD1505	BOD1505-BS1	LCS	0.11500	0.12100	0.050	mg/kg	95.0	75 - 125	
Nickel	BOD1505	BOD1505-BS1	LCS	0.22620	0.23210	0.010	mg/kg	97.5	75 - 125	
Selenium	BOD1505	BOD1505-BS1	LCS	0.099800	0.097020	0.010	mg/kg	103	75 - 125	
Silver	BOD1505	BOD1505-BS1	LCS	0.10340	0.10637	0.010	mg/kg	97.2	75 - 125	
allium	BOD1505	BOD1505-BS1	LCS	0.11940	0.10329	0.10	mg/kg	116	75 - 125	
Vanadium	BOD1505	BOD1505-BS1	LCS	0.59530	0.58630	0.010	mg/kg	102	75 - 125	
Zinc	BOD1505	BOD1505-BS1	LCS	0.74510	0.71170	0.050	mg/kg	105	75 - 125	

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BC Laboratories, Inc

Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Total Concentrations (TTLIC) Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
roury	BOD1498	BOD1498-BLK1	ND	mg/kg	0.010	0.0016	
	BOD1505	BOD1505-BLK2	0.0065000	mg/kg	0.10	0.0056	
Arsenic	BOD1505	BOD1505-BLK1	ND	mg/kg	0.010	0.0042	
Barium	BOD1505	BOD1505-BLK1	ND	mg/kg	0.010	0.0010	
Beryllium	BOD1505	BOD1505-BLK1	ND	mg/kg	0.010	0.00044	
Cadmium	BOD1505	BOD1505-BLK1	ND	mg/kg	0.010	0.0024	
Chromium	BOD1505	BOD1505-BLK1	ND	mg/kg	0.010	0.0013	
Cobalt	BOD1505	BOD1505-BLK1	ND	mg/kg	0.050	0.0012	
Copper	BOD1505	BOD1505-BLK1	ND	mg/kg	0.040	0.0098	
Lead	BOD1505	BOD1505-BLK1	ND	mg/kg	0.050	0.0015	
Molybdenum	BOD1505	BOD1505-BLK1	ND	mg/kg	0.050	0.022	
Nickel	BOD1505	BOD1505-BLK1	ND	mg/kg	0.010	0.0012	
Selenium	BOD1505	BOD1505-BLK1	ND	mg/kg	0.010	0.0064	
Silver	BOD1505	BOD1505-BLK1	ND	mg/kg	0.010	0.0012	
allium	BOD1505	BOD1505-BLK1	0.0091000	mg/kg	0.10	0.0074	
Vanadium	BOD1505	BOD1505-BLK1	ND	mg/kg	0.010	0.0012	
Zinc	BOD1505	BOD1505-BLK1	ND	mg/kg	0.050	0.024	

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Page 15 of 1



BC Laboratories, Inc

Port Organic Prop
P.O. Box 5203
Bakersfield CA, 93358

Project: Soil samples
Project Number: Waste fish
Project Manager: Jim Zaben

Reported: 05/11/05 14:09

Notes and Definitions

- Q01 Sample precision is not within the control limits.
- pH1:1 pH result reported on a 1:1 dilution of sample
Estimated value
- A02 The difference between duplicate readings is less than the PQL.
- A01 PQL's and MDL's are raised due to sample dilution.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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BC Laboratories, Inc

Port Organic Prop
P.O Box 5203
Bakersfield, CA 93358
Attn: Jim Zaben

<u>BC Lab #</u>	<u>Client ID</u>	<u>Date Sampled</u>	<u>Time Sampled</u>
05-03842-01	Soil S	04-18-05	09:56
05-03842-02	Soil N	04-18-05	09:45
05-03842-03	Soil E	04-18-05	10:12
05-03842-04	Soil W	04-18-05	10:26

Attached are the results analyzed by Aquatic Testing Laboratories.

LABORATORY REPORT

**Aquatic
Testing
Laboratories**



"dedicated to providing quality aquatic toxicity testing"

Date: April 26, 2005
Client: BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
Attn: Shelley Taylor

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Laboratory No.: A-05042108-001/004
Sample ID.: 0503842-01/04

Sample Control: The samples were received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 04/18/05
Date Received: 04/21/05
Date Tested: 04/21/05 to 04/26/05

Sample Analysis: The following analyses were performed on your sample:

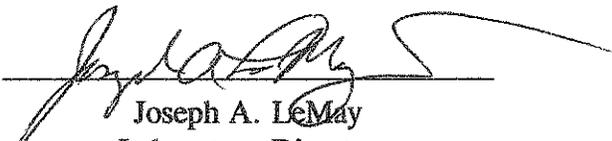
CCR Title 22 - Fathead Minnow Hazardous Waste Screen Bioassay (Polisini and Miller 1988).

Attached are the test data generated from the analysis of your sample.

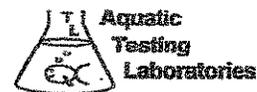
Result Summary:

<u>Sample ID.</u>	<u>Results</u>
0503842-01	PASSED (LC50 > 750 mg/l)
0503842-02	PASSED (LC50 > 750 mg/l)
0503842-03	PASSED (LC50 > 750 mg/l)
0503842-04	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:


Joseph A. LeMay
Laboratory Director

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**



Lab No.: A05042108-001

Client/ID: BC 3842-1

TEST SUMMARY

Species: *Pimephales promelas*.
 Fish length (mm): av: 25.8; min: 23; max: 27.
 Fish weight (gm): av: 0.26; min: 0.20; max: 0.29.
 Test chamber volume: 10 liters.
 Temperature: 20 +/- 2°C.
 Aeration: Single bubble through narrow bore tube.
 Number of replicates: 2.
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO₃).
 QA/QC Batch No.: RT-050307.

Source: In-lab culture.
 Regulations: CCR Title 22.
 Test Protocol: California F&G/DHS 1988.
 Endpoints: Survival at 96 hrs.
 Test type: Static.
 Feeding: None.
 Number of fish per chamber: 10.
 Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
	°C	DO	pH	#D																
Date/Time:	4-22-05 1030				4-23-05 1030				4-24-05 1000				4-25-05 1030				4-26-05 1100			
Analyst:	LM				LM				JW				JW				LM			
Control A	20.6	8.6	7.6	0	20.5	8.2	7.4	0	20.6	7.8	7.5	0	20.7	7.7	7.5	0	20.7	8.9	7.5	0
Control B	20.5	8.5	7.6	0	20.4	8.0	7.3	0	20.4	7.9	7.4	0	20.6	8.2	7.4	0	20.6	8.7	7.4	0
400 mg/l A	20.5	8.6	7.3	0	20.5	6.1	7.0	0	20.4	6.5	7.0	0	20.4	7.2	7.2	0	20.6	7.8	7.1	0
400 mg/l B	20.4	8.5	7.3	0	20.4	6.3	7.0	0	20.4	6.6	7.0	0	20.4	7.0	7.2	0	20.5	7.3	7.1	0
750 mg/l A	20.4	8.3	7.2	0	20.4	7.1	7.1	0	20.4	7.0	7.1	0	20.3	7.2	7.1	0	20.5	8.0	7.2	0
750 mg/l B	20.3	8.5	7.2	0	20.3	7.2	7.1	0	20.3	7.2	7.1	0	20.4	7.1	7.2	0	20.4	7.5	7.1	0

Comments: Extraction method: Mechanical shaking X.
 None (aqueous solution) —.

	CONTROL				HIGH CONCENTRATION			
	Alkalinity		Hardness		Alkalinity		Hardness	
Initial	26	mg/l CaCO ₃	46	mg/l CaCO ₃	30	mg/l CaCO ₃	70	mg/l CaCO ₃
Final	27	mg/l CaCO ₃	46	mg/l CaCO ₃	37	mg/l CaCO ₃	83	mg/l CaCO ₃

RESULTS

Total Number Dead	
Control	0 / 120
400 mg/l	0 / 120
750 mg/l	0 / 120

✓ (one)	Result	Description
✓	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
✓	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**



Lab No.: A05042108-102

Client/ID: BC 3842-2

TEST SUMMARY

Species: *Pimephales promelas*.
 Fish length (mm): av: 25.8; min: 23; max: 27.
 Fish weight (gm): av: 0.26; min: 0.20; max: 0.29.
 Test chamber volume: 10 liters.
 Temperature: 20 +/- 2°C.
 Aeration: Single bubble through narrow bore tube.
 Number of replicates: 2.
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO₃).
 QA/QC Batch No.: RT-050307.

Source: In-lab culture.
 Regulations: CCR Title 22.
 Test Protocol: California F&G/DHS 1988.
 Endpoints: Survival at 96 hrs.
 Test type: Static.
 Feeding: None.
 Number of fish per chamber: 10.
 Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
Date/Time:	4-22-05 1030				4-23-05 1030				4-24-05 1000				4-25-05 1030				4-26-05 1100			
Analyst:	[Signature]																			
	°C	DO	pH	#D																
Control A	20.6	8.6	7.6	0	20.5	8.2	7.4	0	20.6	7.8	7.5	0	20.7	7.7	7.5	0	20.7	8.8	7.5	0
Control B	20.5	8.5	7.6	0	20.4	8.0	7.3	0	20.6	7.9	7.4	0	20.4	8.2	7.4	0	20.6	8.7	7.4	0
400 mg/l A	20.5	8.6	7.3	0	20.5	7.3	7.0	0	20.4	6.2	7.1	0	20.5	6.4	7.2	0	20.6	8.1	7.3	0
400 mg/l B	20.4	8.5	7.3	0	20.4	5.2	6.9	0	20.4	6.2	7.1	0	20.5	6.4	7.1	0	20.5	7.0	7.2	0
750 mg/l A	20.4	8.6	7.2	0	20.4	5.6	7.0	0	20.4	6.6	7.0	0	20.4	6.8	7.2	0	20.5	7.9	7.3	0
750 mg/l B	20.3	8.6	7.2	0	20.3	6.8	7.1	0	20.3	7.1	7.1	0	20.4	7.0	7.1	0	20.4	7.6	7.3	0

Comments: Extraction method: Mechanical shaking X.
 None (aqueous solution) —.

	CONTROL		HIGH CONCENTRATION	
	Alkalinity	Hardness	Alkalinity	Hardness
Initial	26 mg/l CaCO ₃	46 mg/l CaCO ₃	31 mg/l CaCO ₃	86 mg/l CaCO ₃
Final	27 mg/l CaCO ₃	46 mg/l CaCO ₃	54 mg/l CaCO ₃	101 mg/l CaCO ₃

RESULTS

Total Number Dead	
Control	0 / 20
400 mg/l	0 / 20
750 mg/l	0 / 20

✓ (one)	Result	Description
✓	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
—	FAILED	LC50 < 400 mg/l

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**



Lab No.: A05042108-003

Client/ID: BC 3842-3

TEST SUMMARY

Species: *Pimephales promelas*.
 Fish length (mm): av: 25.8; min: 23; max: 27.
 Fish weight (gm): av: 0.26; min: 0.20; max: 0.29.
 Test chamber volume: 10 liters.
 Temperature: 20 +/- 2°C.
 Aeration: Single bubble through narrow bore tube.
 Number of replicates: 2.
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO₃).
 QA/QC Batch No.: RT-050307.

Source: In-lab culture.
 Regulations: CCR Title 22.
 Test Protocol: California F&G/DHS 1988.
 Endpoints: Survival at 96 hrs.
 Test type: Static.
 Feeding: None.
 Number of fish per chamber: 10.
 Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
	°C	DO	pH	#D																
Date/Time:	4-22-05 1030				4-23-05 1030				4-24-05 1000				4-25-05 1030				4-26-05 1100			
Analyst:	RM				RM				J				J				RM			
Control A	20.6	8.6	7.6	0	20.5	8.2	7.4	0	20.4	7.8	7.5	0	20.7	7.7	7.5	0	20.7	8.8	7.5	0
Control B	20.5	8.5	7.6	0	20.4	8.0	7.3	0	20.4	7.9	7.4	0	20.6	8.2	7.6	0	20.1	8.7	7.4	0
400 mg/l A	20.5	8.7	7.3	0	20.5	7.6	7.2	0	20.6	7.0	7.1	0	20.5	7.2	7.1	0	20.6	7.8	7.1	0
400 mg/l B	20.4	8.6	7.3	0	20.4	7.7	7.2	0	20.5	7.4	7.1	0	20.9	7.4	7.1	0	20.6	7.9	7.1	0
750 mg/l A	20.3	8.5	7.2	0	20.4	8.0	7.3	0	20.4	7.7	7.2	0	20.4	7.4	7.0	0	20.5	8.5	7.2	0
750 mg/l B	20.3	8.5	7.2	0	20.3	6.9	7.2	0	20.4	6.9	7.4	0	20.4	7.4	7.0	0	20.4	8.2	7.2	0

Comments: Extraction method: Mechanical shaking X
 None (aqueous solution) —

	CONTROL		HIGH CONCENTRATION	
	Alkalinity	Hardness	Alkalinity	Hardness
Initial	26 mg/l CaCO ₃	46 mg/l CaCO ₃	31 mg/l CaCO ₃	71 mg/l CaCO ₃
Final	27 mg/l CaCO ₃	46 mg/l CaCO ₃	38 mg/l CaCO ₃	43 mg/l CaCO ₃

RESULTS

Total Number Dead	
Control	0 / 20
400 mg/l	0 / 20
750 mg/l	0 / 20

✓ (one)	Result	Description
✓	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
✓	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

**FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY**



Lab No.: A05042108-004

Client/ID: BC 3842-4

TEST SUMMARY

Species: *Pimephales promelas*.
 Fish length (mm): av: 25.8; min: 23; max: 27.
 Fish weight (gm): av: 0.26; min: 0.20; max: 0.29.
 Test chamber volume: 10 liters.
 Temperature: 20 +/- 2°C.
 Aeration: Single bubble through narrow bore tube.
 Number of replicates: 2.
 Dilution water: Soft reconstituted water (40 - 48 mg/l CaCO₃).
 QA/QC Batch No.: RT-050307.

Source: In-lab culture.
 Regulations: CCR Title 22.
 Test Protocol: California F&G/DHS 1988.
 Endpoints: Survival at 96 hrs.
 Test type: Static.
 Feeding: None.
 Number of fish per chamber: 10.
 Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
Date/Time:	4-22-05 1030				4-23-05 1030				4-24-05 1000				4-25-05 1030				4-26-05 1100			
Analyst:	LM				LM				Jm				Jm				Jm			
	°C	DO	pH	#D																
Control A	20.6	8.6	7.6	0	20.5	8.2	7.4	0	20.4	7.8	7.5	0	20.7	7.7	7.5	0	20.7	8.4	7.5	0
Control B	20.5	8.5	7.6	0	20.9	8.0	7.3	0	20.6	7.9	7.4	0	20.4	8.2	7.9	0	20.6	8.7	7.4	0
400 mg/l A	20.5	8.6	7.1	0	20.5	7.3	6.9	0	20.5	7.6	7.1	0	20.5	7.6	7.1	0	20.7	7.7	7.1	0
400 mg/l B	20.4	8.5	7.1	0	20.4	5.4	6.8	0	20.4	7.1	7.0	0	20.6	7.5	7.2	1	20.6	8.3	7.2	0
750 mg/l A	20.3	8.5	7.1	0	20.3	4.8	6.7	0	20.4	7.0	7.0	0	20.5	7.1	7.1	0	20.5	9.2	7.2	0
750 mg/l B	20.3	8.7	7.1	0	20.3	6.9	6.7	0	20.3	7.1	7.0	0	20.5	7.2	7.2	0	20.5	7.3	7.2	0

Comments: Extraction method: Mechanical shaking
 None (aqueous solution)

	CONTROL		HIGH CONCENTRATION	
	Alkalinity	Hardness	Alkalinity	Hardness
Initial	26 mg/l CaCO ₃	46 mg/l CaCO ₃	29 mg/l CaCO ₃	70 mg/l CaCO ₃
Final	27 mg/l CaCO ₃	46 mg/l CaCO ₃	45 mg/l CaCO ₃	77 mg/l CaCO ₃

RESULTS

Total Number Dead	
Control	0 / 20
400 mg/l	1 / 20
750 mg/l	0 / 20

✓ (one)	Result	Description
X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 mg/l (definitive test recommended)
—	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)