APPENDIX O

PHASE I ENVIRONMENTAL SITE ASSESSMENT (REVISED)

228-ACRE PLYMOUTH PROPERTY

PHASE I ENVIRONMENTAL SITE ASSESSMENT

November 2008

Prepared for:

Ione Band of Miwok Indians
14 West Main Street
Ione, CA 95640

Prepared by:

ANALYTICAL ENVIRONMENTAL SERVICES

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INTRODUCTION

1.1 PURPOSE

Analytical Environmental Services (AES) has prepared this Environmental Site Assessment (ESA) in conformance with American Society for Testing and Materials (ASTM) Standard Practice E 1527-05, and Bureau of Indian Affairs (BIA) guidelines (620 DM Chapter 2) which specify requirements for the innocent landowner defense under the Comprehensive Environmental Response, Cleanup, and Liability Act (CERCLA) and procedures for proposed real property acquisition. The purpose of this assessment is to Recognized Environmental Conditions associated with the Subject Property. This Phase I ESA includes twelve parcels located in Amador County, California **(Figures 1 and 2)**. The assessors Parcel Numbers (APNs) for the Subject Property parcels are listed below:

Parcel 1: 08-110-009 (137.78-acres)

Parcel 2: 08-110-022 (7.86-acres)

Parcel 3: 08-110-026 (60-acres)

Parcel 4: 010-200-003 (0.64-acres)

Parcel 5: 010-200-004 (2.68-acres)

Parcel 6: 010-200-006 (1.65-acres)

Parcel 7: 010-200-007 (1.19-acres)

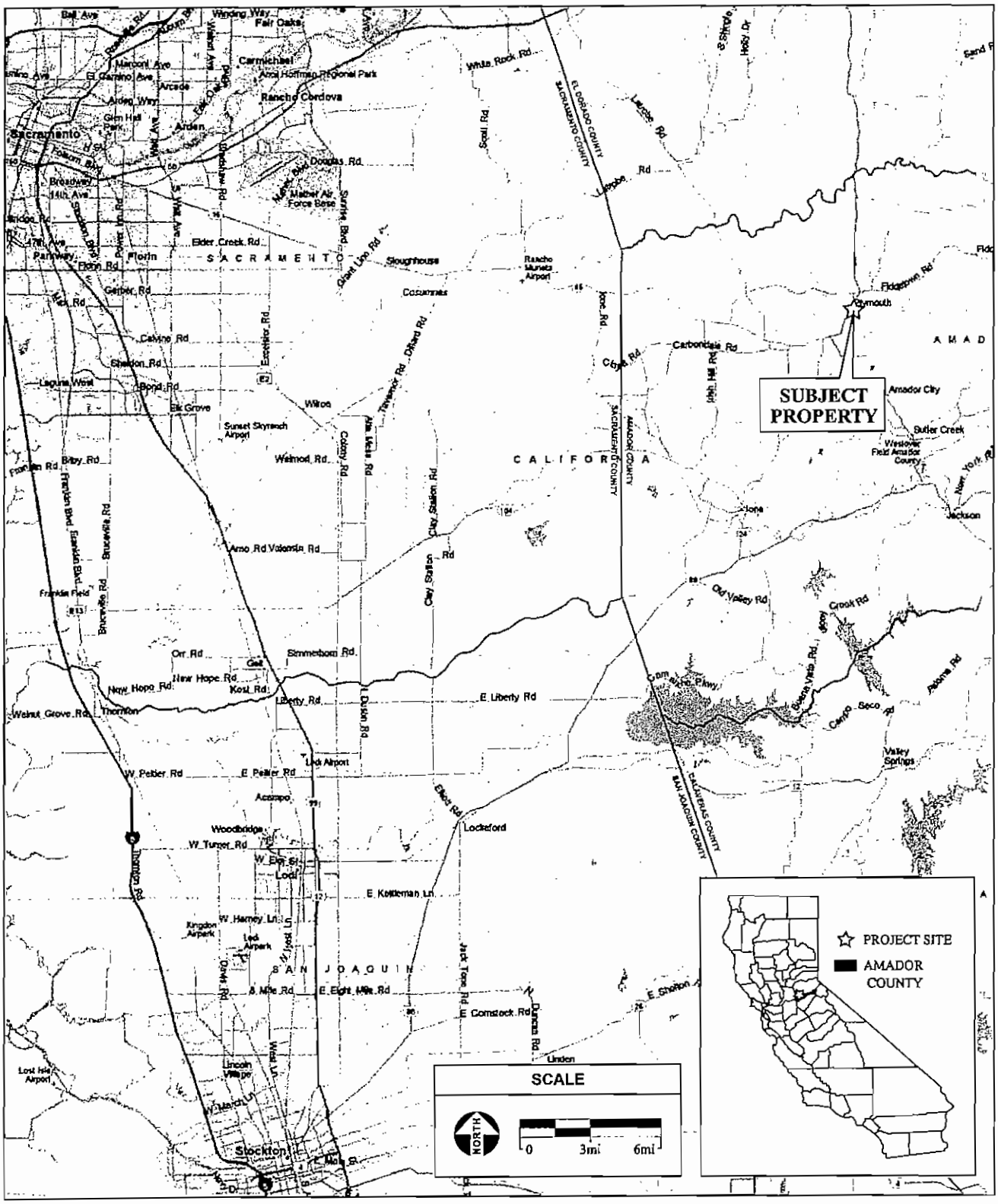
Parcel 8: 010-200-008 (0.53-acres)

Parcel 9: 010-200-009 (0.81-acres)

Parcel 10: 010-200-010 (1.56-acres)

Parcel 11: 010-200-011 (1.56-acres)

Parcel 12: 08-011-021 (12.12 acres)



SOURCE: ESRI Data, 2003; AES, 2008

Figure 1
Regional Location

This ESA covers the Subject Property, adjacent areas, and surrounding known sources of contamination, up to 2.0 miles from a point roughly equivalent to the Subject Property. Site reconnaissance inspections of the Subject Property and adjacent properties were performed and relevant database listings of hazardous sites, waste generators, and underground storage tanks were reviewed (EDR, 2008). AES also reviewed historical aerial photographs for the Subject Property. Years available for review were 1944, 1962, 1984, 1987, 1998, and 2005.

1.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

The term Recognized Environmental Condition (REC) refers to 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 release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, 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 material risk of harm to public 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. Additionally, the term historical REC refers to an environmental condition associated with the Subject Property, including a past release of any hazardous substance or petroleum product, which in the past would have been considered a REC, however such condition has since been remediated. Historical RECs will therefore be included in this Phase I ESA (ASTM 2005).

1.3 LIMITATIONS AND EXCEPTIONS

No ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a property. Conformance of this assessment with ASTM Standard Practice E 1527-05 will reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Subject Property. While AES has made every effort to discover and interpret available historical and current information on the property within the time available, the possibility for undiscovered contamination to be present remains. AES's report is a best-effort collection and interpretation of available information consistent with industry standards for the completion of Phase I ESAs.

This ESA is based on a site reconnaissance of the Subject Property, searches of government hazardous materials databases, and interviews with the current property owners and/or their represetatives. Physical testing of soil or groundwater was not within the scope of this assessment. Asbestos containing building materials (ACM) and lead-based paint surveys were not included.

1.4 METHODOLOGY

A variety of data sources were consulted in completing this ESA. The following sub-sections describe the methods used and the data sources consulted to accomplish each task.

1.4.1 HISTORICAL REVIEW

Previous land uses and history of the Subject Property was researched in an effort to identify RECs at or near the Subject Property. Historical aerial photographs (**Appendix A**) and topographic maps (**Appendix B**) from different decades were examined for the presence of aboveground storage tanks, industrial buildings, gas station canopies and/or pump islands, as well as other indications of bulk hazardous material storage. Other sources of historical information including Sanborn Fire Insurance Maps and City Directory Abstracts did not include coverage of the Subject Property due to the rural nature of the Subject Property.

1.4.2 DATABASE SEARCHES

Database searches were made for records of known storage tank sites and known sites of hazardous materials generation, storage or contamination. Available information from federal, state, and local agency lists of: (a) known or potential hazardous waste sites and landfills; (b) sites currently under investigation for environmental violations; (c) sites which manufacture, generate, use, store, and/or dispose of hazardous materials or hazardous wastes; (d) sites which have underground storage tanks (USTs); and (e) sites with recorded violations of regulations concerning USTs and hazardous materials/hazardous wastes. The database search is intended to identify facilities that may have the potential to impact surface and subsurface conditions on the Subject Property. A full listing of sites within the vicinity of the Subject Property is provided in **Appendix C**.

1.4.3 TITLE REPORT AND ENVIRONMENTAL LIEN SEARCH

A review of ownership records in the form of a title report was performed to review potential land uses that would signify potential RECs in connection with the Subject Property. The title report was supplied by the property owner and information within the title report appears reliable.

An EDR Environmental Lien Search (**Appendix D**) was reviewed for Parcel 1 to ensure no pending cleanup liens exist for Parcel 1 and the abandoned mine. No environmental clean-up liens were noted in the lien search.

1.4.4 SITE RECONNAISSANCE

Pete Connelly performed a field inspection of the Subject Property on October 2, 2003, October 7, 2003, and April 2, 2004. A follow-up inspection occurred on October 22, 2008 for the

preparation of this updated Phase I ESA. The purpose of the site reconnaissance is to examine for obvious physical indications of improper hazardous substance or petrochemical disposal such as stained soil or asphalt, stressed vegetation, sumps, partially buried drums, bulk underground fuel storage tanks, and other obvious signs of hazardous materials involvement. In addition, adjacent properties were visually inspected to the extent possible without trespassing on private property to determine if obvious RECs are visible on adjacent properties. **Section 3.0** describes the findings and includes photos of the field inspections.

1.5 DEVIATIONS AND DATA GAPS

ASTM Standard E 1527-05 requires any significant data gaps, deviations and deletions from the ASTM Standard to be identified and commented on in the Phase I ESA. A significant data gap would be one that affected the ability to identify a REC on the Subject Property or adjacent properties.

Sanborn Fire Insurance Maps and EDR City Directory Abstracts were not available for the Subject Property. There were no problems identifying past uses of the Subject Property; therefore the lack of Sanborn Fire Insurance Maps and EDR City Directory Abstracts is not considered a significant data gap for this Phase I ESA. The historical aerial photos that provide coverage of the Subject Property are of varying scale and clarity. Individual structures that are identified on the Subject Property in the 1944, 1962, 1987, 1998, and 2005 are not identifiable on the 1984 aerial. Because the decade package (EDR, 2008) provides sufficient coverage for the prior years (1962) and individual structures are visible in these photos, the quality of the 1981 aerial photo is not considered a significant data gap for this Phase I ESA.

SECTION 2.0

SITE DESCRIPTION

SECTION 2.0
SITE DESCRIPTION

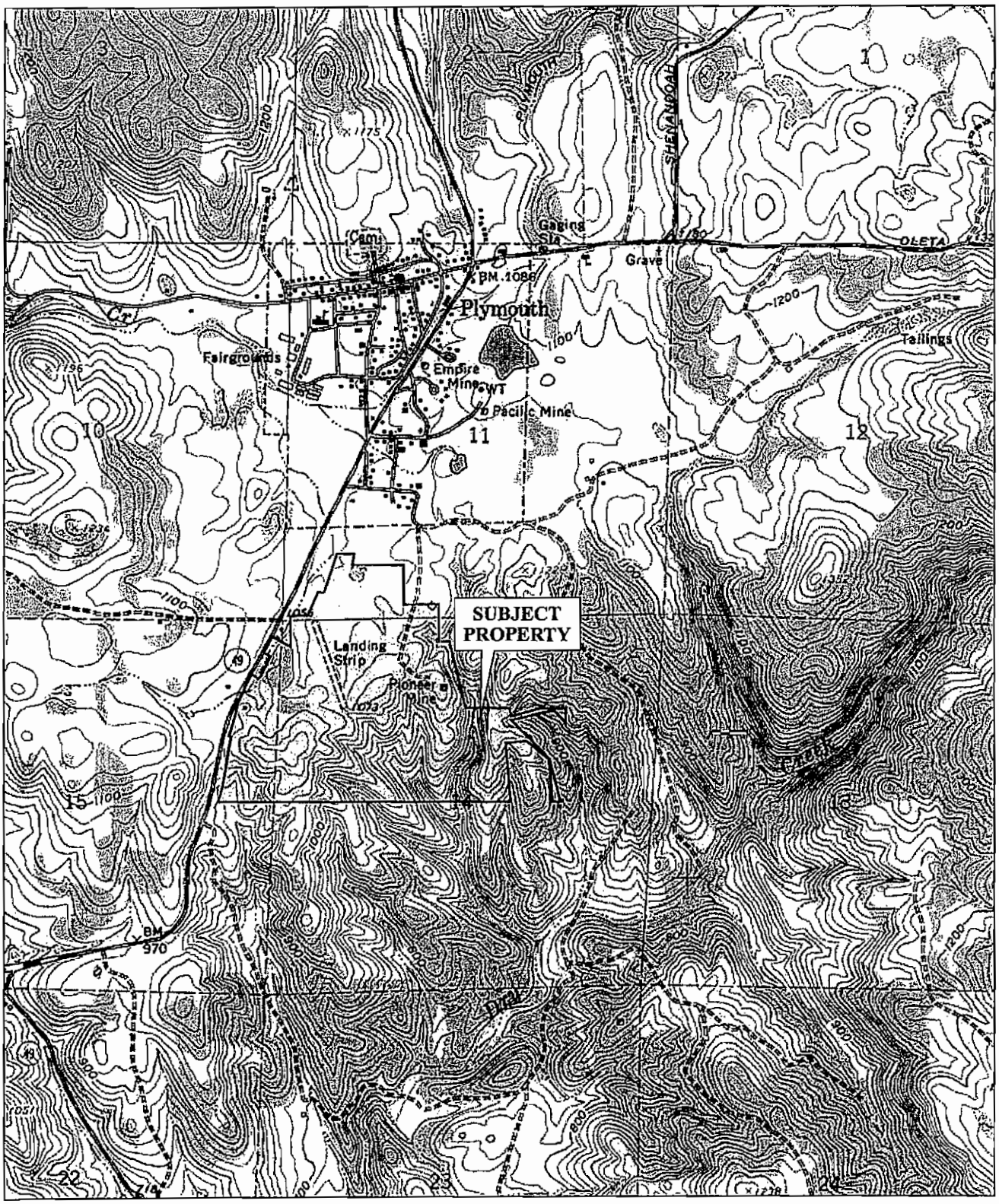
2.1 LOCATION AND LEGAL DESCRIPTION

The Subject Property is located in Western Amador County, California, outside the City of Plymouth, and is bound by Highway 49 to the west, the City of Plymouth to the north, and rural residential and undeveloped vacant land to the south and east (**Figure 2**). The Subject Property is comprised of 12 separate parcels totaling approximately 228.04 acres (**Figure 3**). The Amador County Assessor Parcel Numbers (APNs) and acreage are listed in **Table 2-1**. Four (4) of the Subject Property parcels are located in unincorporated Amador County, these include Parcels 1, 2, 3, and 12. These unincorporated parcels are contiguous to the other eight Subject Property parcels which are located within the City of Plymouth. Six of the parcels located in the City of Plymouth are off Village Drive and Highway 49. These include Parcels 4, 5, 6, 7, 10, and 11. The remaining two Subject Property parcels are located off Highway 49 (Parcels 8 and 9) (**Figure 3**).

TABLE 2-1
Subject Property Parcels

Parcel	APN number	Acreage	Location
1	08-110-009	137.78	Unincorporated Amador County
2	08-110-022	7.86	Unincorporated Amador County
3	08-10-026	60	Unincorporated Amador County
4	10-200-003	0.64	City of Plymouth
5	10-200-004	2.68	City of Plymouth
6	10-200-006	1.65	City of Plymouth
7	10-200-007	1.19	City of Plymouth
8	10-200-008	0.53	City of Plymouth
9	10-200-009	0.81	City of Plymouth
10	10-200-010	1.56	City of Plymouth
11	10-200-110	1.22	City of Plymouth
12	08-110-021	12.12	Unincorporated Amador County

SOURCE: AES, 2008



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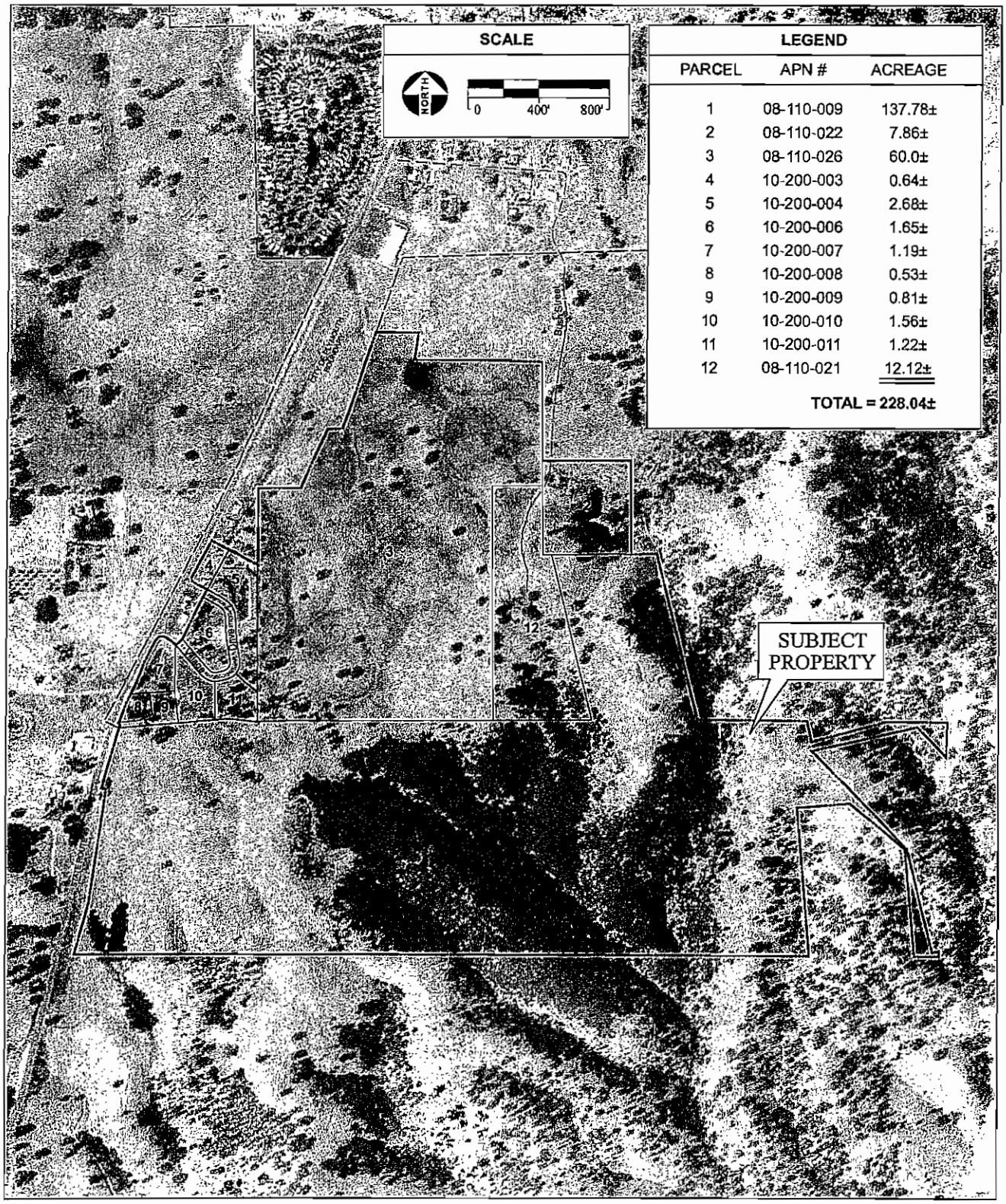
SOURCE: "Amador City, CA" USGS 7.5 Minute Topographic Quadrangle, Sections 11, 14, & 15, T7N, R10E, Mt. Diablo Baseline and Meridian; AES, 2008

Figure 2
Site and Vicinity



SOURCE: USGS Aerial Photograph, 8/16/1998; AES, 2008

Figure 3
Aerial Site Map

2.2 SITE AND VICINITY CHARACTERISTICS

Natural features of the project site include several prominent rock outcroppings, California annual grassland, and dense oak woodland and thick chaparral. The topography of the Subject Property has rolling hills with gradual to steep elevation changes. The elevations of the Subject Property range from approximately 880 feet above mean sea level (amsl) to approximately 1145 feet amsl. Several natural seasonal drainages are present on the Subject Property; which generally flow towards the south. The northern portions of the site, primarily the northern portion of Parcels 2, 3, and 12, are generally flat. Stormwater accumulates within several low lying areas of Parcel 3, this parcel has historically been used for cattle grazing and the water that accumulates along the northern portion of Parcel 3 is used to water cattle during the spring and early summer months. As stated above, Parcels 4, 5, 6, 7, 10, and 11 are located off Village Drive. Portions of these parcels have been graded for future development.

Some of the Subject Property parcels are comprised of vacant lands which have never been developed, while others are developed and include a commercial hotel and residential structures. **Table 2-2** is a summary of the Subject Property improvements. **Section 3.0** includes site photos and a summary of the site reconnaissance findings including site photos of environmental conditions.

Parcel 1: Parcel 1 has never been developed and is comprised of 137.78 acres used for cattle grazing. There are remains of a mine that appear to have been filled with debris. The debris is comprised of corrugated metal and large wood planks arranged in a pile, covering the mine shaft. Several piles of what appear to be mine tailing are located next to the mine. The tailings are described by the property owner as crushed slate that was discarded during prior hard rock mining activities. The piles are covered with native vegetation that does not appear stressed. Other obvious remnants of the mine include several concrete footings/foundations along a hillside; the footing/foundations are arranged in a staircase fashion, originating at the top of a hill along the northeast corner of Parcel 1. Several pits and ditches were noted along in the northern portions of Parcel 1, north of the abandoned mine. These features carry over into the southern portions of Parcel 2. A previous geotechnical investigation (Geocon, 2005) noted several ditches and adits in areas south of the former mine. The vegetation in these areas are representative of the reminder of the site and do not appear stressed. There are no indicators of gross contamination such a stained soil, debris piles, chemical odors, or other potential signs of gross contamination on this portion of the Subject Property.

Parcel 2: The physical address of Parcel 2 is 9448 Bush Street. This parcel is developed and has a vacant, approximately 1,200 square foot (sq/ft), wood framed, concrete slab house with composition shingle roof. A septic system, two domestic wells, barn, pig pen, and pump house

TABLE 2-2
Subject Property Improvements

Parcel	APN number	Address/location	Improvements
1	08-110-009	NA	Vacant. One groundwater well contained in a concrete vault.
2	08-110-022	9448 Bush Street	Approximately 1,200 sq/ft home, barn, pig pen, pump house, two domestic wells
3	08-10-026	NA	Vacant never developed
4	10-200-003	NA/Highway 49 frontage	Marquis Sign for Shenandoah Inn
5	10-200-004	17674 Village Drive	Shenandoah Inn. Storm water drains maintained by City of Plymouth
6	10-200-006	Off Village Drive	Graded for future development. Storm water drains maintained by City of Plymouth
7	10-200-007	NA/Highway 49 frontage	Graded for future development.
8	10-200-008	17594 Highway 49	Approximately 1,500 sq/ft residential structure
9	10-200-009	17590 Highway 49	Approximately 1,200 sq/ft residential structure
10	10-200-010	Off Village Drive	Graded for future development. Storm water drains maintained by City of Plymouth
11	10-200-110	Off Village Drive	Graded for future development. Storm water drains maintained by City of Plymouth
12	08-110-021	9458 Bush Street	1,200 sq/ft home, barn/garage, domestic well

SOURCE: AES, 2008

were noted on this parcel. As noted above, the southern portion of Parcel 2 has what appear to be several mining ditches.

Parcel 3: This parcel comprises approximately 60 acres and is a vacant field used for cattle grazing. A seasonal pond located along on the northern border of Parcel 3 is fed from stormwater runoff that originates from an open field located on the neighboring parcel to the north. There are no indicators of gross contamination on this portion of the Subject Property.

Parcel 4: This parcel comprises approximately 0.64 acres and contains the marquis sign for the Shenandoah Inn. There is a vegetated roadside ditch along Highway 49 were surface stormwater accumulates. Several power poles are located next to the roadside ditch. There are no pole mounted transformers associated with these power lines.

Parcel 5: This parcel is developed and is the location of the Shenandoah Inn, which is a two story 49 room hotel located at 17674 Village Drive. Utilities for the hotel include water and

wastewater service provided by the City of Plymouth, propane gas provided through a private company, and electricity provided through Pacific Gas and Electric. The hotel was built in 1989 (Patel, 2008). Prior to 1989, Parcel 5 was undeveloped as shown on historic aerial photos and topographic maps.

Parcels 6, 7, 10, and 11: These parcels are all located off Village Drive. Portions of these Subject Property parcels appear to have been graded previously in anticipation of future development. Improvements along Village Drive include fire hydrants, storm drains, and curb and gutters.

Parcel 8: This parcel is developed and has an occupied residential structure approximately 1,500 sq/ft in size. The residential structure is comprised of concrete block walls, concrete slab foundation, and composition shingle roof. The physical address of Parcel 8 is 17594 Highway 49. A domestic well was noted along the eastern portion of this parcel.

Parcel 9: Parcel 9 is also developed and includes an unoccupied 1,200 sq/ft residential structure with concrete slab foundation and attached garage. The physical address of Parcel 9 is 17590 Highway 49.

Parcel 12: The physical address of Parcel 12 is 9458 Bush Street. An approximately 1,200 square foot ranch-style home with a composition shingle roof, concrete slab foundation, detached garage/barn, private groundwater well, and a septic system.

ADJACENT PROPERTIES

AES performed a survey of adjacent properties to the extent possible without trespassing. The purpose is to identify adjacent businesses and determine if current land uses would affect the planned use of the Subject Property. There are three commercial business located along the western border of the Subject Property. At 17699 Highway 49, immediately west of Parcel 6 is the Village Market/Shell Gas Station. The Columa Del Oro Mexican restaurant and Gold Country Café are also located on Highway 49, west of Parcel 3. The property immediately north of Parcel 3 is undeveloped. The properties immediately east of the project site are generally rural residential and vacant land, with some cattle grazing. The property south of the project site consists of vacant land used for cattle grazing.

Several gas station sites were mapped in the EDR Radius Map Report under various locations and addresses (**Appendix C**). The EDR report is listed in the Sierra Trading Post and Exxon Station #506 as being located at within less than 0.25 miles of the Subject Property. The EDR report identifies these two gas station sites as being located at the intersection of Highway 49 and Main Street. This intersection is approximately 0.65 miles from the northern border of Parcel 3. The

Sierra Trading Post, Exxon Station #506, and E-Z Serve are the same business and located at the intersection of Highway 49 and Main Street in Plymouth. There are no other gas stations with the exception of the Shell Gas Station/Village Market located in the vicinity of the Subject Property on Highway 49.

Historic mines are delineated on the historical topographic maps as the Pacific Mine and Empire Mine (**Appendix B**). These hard rock mines are located approximately 0.50 and 0.65 miles from the Subject Property, respectively. Generally the risks associated with historic mines are safety related and consist of either collapse or the risk of falling into an unmarked mining pit. Surface water impacts also occur from heavy metals in the mine tailings reacting to oxygen and rain water. The result is acid mine drainage. A review of topographic maps indicates concentrated stormwater runoff from the Pacific Mine and Empire Mine does not appear to flow towards the Subject Property.

2.3 HYDROLOGY

The eastern and southern portion of Parcel 1 is steeply sloped and consists of small watersheds that drain into Dry Creek. Surface water runoff from Parcel 1 drains into an unnamed seasonal tributary of Dry Creek. Stormwater runoff from the areas of the Subject Property along Village Drive generally drains into stormdrains located on these parcels. There parcels have sufficient vegetation that limits runoff onto Village Drive. Surface water runoff originating from the paved surface of Village Drive drains towards Highway 49; eventually entering roadside ditches and stormdrains located on Highway 49. Parcel 8 and 9 generally drain towards the south and west, towards Highway 49, eventually entering roadside ditches along Highway 49. Stormwater runoff originating on Parcel 2 generally drains towards in the east and southeast, following the natural topography of the site, eventually flowing into a steep ravine and season creek. Parcel 12 generally drains towards in the south, following the natural topography, flowing into a steep ravine located in Parcel 1. Parcel 3 is relatively flat and stormwater runoff from the adjacent property to the north drains onto Parcel 3. Stormwater generally accumulates in the northern portion of Parcel 3, into a seasonal pond used to water cattle. Some portions of Parcel 3 drain into low lying area along the border of Parcel 1 and Parcel 3.

Static water levels in wells located on the Subject Property range from 75 feet to 200 feet below ground surface (bgs) (AES, 2008).

2.4 GEOLOGY AND SOIL

The geology of the Subject Property consists of greenstone and gray to black slate of the Mariposa Formation (Upper Jurassic age) and metasedimentary rocks, chiefly graphitic schist, metachert and amphibolite schist of the Calaveras Formation (Carboniferous to Permian). The trend of ridges and rock formations in the project area is generally northwest to southeast. The

Mariposa Formation consists of greenstone that has its origins as metamorphosed basic, igneous intrusive rock and slate that was once seafloor mud. The formation was metamorphosed and evenly folded and fractured during the Nevadan mountain building episode (late Jurassic). The Mariposa Formation crops out as marine sedimentary and metasedimentary rocks with greenstone along the western edge. The Calaveras Formation consists of ancient marine sediments of the Paleozoic era likely formed as a result of coral reef activities. Seismic activity in Jurassic times (250 million years ago) and again about 5 million years ago caused the ancient sediments including the coral reef to be uplifted and folded into its present state.

The dominant soil types on the Subject Property are Exchequer very rocky silt loam (EcE), Exchequer and Auburn loams (EhD), and Exchequer and Auburn very rocky loams (ExE). These soils are loams and silty loams, with low clay content. The soils are derived from the erosion of shallow bedrock of the Calaveras and Mariposa formations described above.

2.5 CURRENT USES OF THE SUBJECT PROPERTY

Pete Connelly performed a field inspection of the Subject Property on October 2, 2003, October 7, 2003, and April 2, 2004. A follow-up inspection occurred on October 22, 2008 for the preparation of this updated Phase I ESA. Current uses of the Subject Property are rural residential and vacant land. Improvements on the Subject Property are summarized in **Table 2-2**. Parcels 1, 3, 6, 7, 10, and 11 are undeveloped. Parcel 1 is used for seasonal cattle grazing and is the location of the Historic Pioneer Mine. As stated in **Section 2.2**, four residential structures were noted on the Subject Property. Two of these structures are located off Highway 49 on Parcel 8 and 9. Parcel 8 is located at 17954 Highway 49 and contains an approximately 1,500 sq/ft concrete block house, attached garage and concrete slab foundation. The second house is located on Parcel 9 (17590 Highway 49) and contains an approximately 1,200 square foot wood framed house with concrete slab foundation and attached garage. The other two residential structures are located on Parcels 2 and 12 and are addressed as 9448 and 9458 Bush Street, respectively. The residential structure located on Parcel 2 is comprised of an approximately 1,200 sq/ft house constructed of wood frame, concrete foundation, detached garage, and composition shingle roof. The residential structure located on Parcel 12 is of similar construction as the structure on Parcel 2. This structure is an approximately 1,200 sq/ft house constructed of wood frame, concrete foundation, detached garage, and composition shingle roof. There is an approximately 300 sq/ft detached garage/barn structure located next to the house.

As noted in **Section 2.2**, Parcel 4 is the location of the Highway 49 frontage marquis sign for the Shenandoah Inn. Parcel 5 is the location of the Shenandoah Inn which is a 49 room hotel with swimming pool and conference rooms. There were no signs of improper hazardous materials storage during the site reconnaissance inspections.

No obvious indications of gross contamination were present on the Subject Property. **Section 3.0** includes photographs of site conditions that were encountered during the October 22, 2008 site visit.

2.6 HISTORICAL USES OF THE SUBJECT PROPERTY

Ownership records and a search of hazardous materials databases (**Section 4.0**) do not suggest any hazardous materials involvement on the Subject Property. Historical uses of the Subject Property are rural residential and vacant land (seasonal cattle grazing). Individual property owners were interviewed in 2003 during the preparation of a Phase I ESA. No RECs were identified by the Subject Property owners during the interviews.

Parcel 1 is the location of the Historic Pioneer Mine; an abandoned hard rock and quartz mine. Remnants of the mine include a demolished lift station and several concrete footings and foundations that are likely remnants of a stamp mill (rock crusher). The mining shaft was filled with debris to limit safety hazards. The previous property owner (Matulich, 2004) was interview several times during the site inspections and during several telephone conversations. Mr. Matulich states that his family has never stored or used hazardous materials on this portion of the Subject Property and is not aware of any gross contamination on the Subject Property. A telephone interview with Mr. Matulitch occurred on October 23, 2008 to ensure no changes occurred regarding hazardous materials involvement. The property owner questionnaires are included in **Appendix F**.

Historical ownership records describe Parcel 2 as the location of the New London Quartz mine. The southern portion of this parcel abuts to areas of Parcel 1 where several ditches and mounds were observed. The ditches and mounds are likely from historical mining activities. The ditches are heavily overgrown with native grasses and there are no physical indications of gross contamination in the areas adjacent to the mine. There are several ditches and mounts that were noted along the southern portions of Parcel 2.

The owner of the Shenandoah Inn (Parcels 4 and 5) (Patel, 2008) of was interviewed during the preparation of this updated Phase I ESA. According to Ms. Patel, there have been no hazardous materials incidences that would result in gross contamination on Parcels 4 and 5.

Historical ownership records describe Parcel 12 as the location of the Gov. Bradford lode mining claim. The southeast border of Parcel 12 abuts to areas of Parcel 1 were the Historic Pioneer Mine is located.

2.7 AERIAL PHOTOGRAPHS

Historical aerial photographs (**Appendix B**) and topographic maps (**Appendix C**) were reviewed for the Subject Property. Years available for review were 1944 (1"=555'), 1962 (1"=555'), 1984 (1"=690'), 1984 (1"=666'), 1998 (1"=666'), and 2005 (1" = 484'). Aerial photographs are of varying scale and clarity. Historical aerial images offer detailed review of previous land uses on the Subject Property and adjacent properties.

1944

The Subject Property appears undeveloped with the exception of man-made structures that are visible on Parcels 8 and 9. The structures are possibly residences, however, due to the resolution of the photo, it is difficult to determine. The 1944 topographic map identifies a building as being present at this location. The Historic Pioneer Mine and lift structure are also visible on the 1944 photo. Several dirt roads are visible on Parcel 3, one of which appears to lead to the mine site. The 1944 topographic map shows a road leading from the town of Plymouth to the Pioneer Mine. One of the hilltops along the northern property boundary of Parcel 1 is void of vegetation and appears to have been cleared. Adjacent properties appear undeveloped, and void of man-made structures.

1962

Land use has not changes on the Subject Property compared to the previous photo. Trees visible on Parcels 8 and 9 appear to obscure most of the structures visible on the 1944 aerial photo. Similar to the 1944 topographic map, the 1962 map identifies a building as being present at this location. The building is likely located on Parcel 8. Parcel 3 is undeveloped; however an airstrip is present on the parcel. There are no buildings associated with the airstrip on Parcel 3. The 1962 aerial photo shows a building present on Parcel 2 that appears to be a residence. That building was not visible in the 1944 aerial photo. Individual structures associated with the mine that were visible in the 1944 photo are not visible in this photo. An airstrip, stock pond, and the Pioneer Mine are all delineated on the 1962 topographic map. Adjacent parcels are undeveloped with the exception of parcels located on the west side of Highway 49. The parcels located west of Highway 49 appear to be rural residential in nature.

1984 and 1987

The 1984 aerial photo has poor resolution and individual structures are only slightly visible. Areas were residential structures are currently present on Parcels 2 and 12 appear to have been cleared in preparation for construction of the residences. Both structures are visible in the 1987 aerial photo. The parcels located off Village Drive appear to be in the process of being developed in the 1987 photo, as those parcels appear to have been cleared of vegetation. Outlying areas are more developed compared to the previous photos.

1998

The portions of the Subject Property located off Village Drive appear as they are today. The Shenandoah Inn is visible in the 1998 aerial photo. The adjacent property west of Parcel 6 has a building present as well as the gas station canopy as it appears today. Residences are visible on Parcels 2 and 12. The cattle watering pond located on Parcel 3 is visible in this photo. The restaurants located on Highway 49, as well as a large trailer park, northwest of Parcel 3 are visible in the 1998 photo. The airstrip that is visible in the 1962 photo is no longer visible in the 1998 photo. The town of Plymouth appears more developed compared to the previous photos.

2005

These photos indicate land use has not changed between 1998 and 2005. The Subject Property parcels appear much as they do today. An unpaved road located off Highway 49 enters Parcel 1 and appears to have been widened and extended towards the east and southeast sometime between 1998 and 2005. Two watering ponds are visible on the Subject Property. One of the ponds is located on the southwest corner of Parcel 1, next to Highway 49. The second pond is in the same location on Parcel 3 as shown on the 1998 aerial photo and isdelineated in the 1962 topographic map.

2.8 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps do not provide coverage of the Subject Property.

SECTION 3.0

SITE RECONNAISSANCE AND INTERVIEWS

SECTION 3.0
SITE RECONNAISSANCE AND INTERVIEWS

3.1 OBJECTIVE

The objective of the site reconnaissance is to identify current or historic hazardous materials involvement on the Subject Property or in the vicinity of the Subject Property. Hazardous materials involvement or signature environmental conditions include the presence or likely presence of any hazardous materials or petroleum products that indicate an existing release, past release, or a threat of release into any structure on the property, soil, or groundwater. Signs of possible hazardous materials involvement would include any indications of underground storage tanks existing on the Subject Property, stained soils and/or unusual odors originating from the Subject Property, indications of an excavation or removal of soils, including patched asphalt and large debris piles, and other obvious signs of hazardous materials involvement.

3.2 SITE RECONNAISSANCE FINDINGS

Pete Connelly performed a field inspection of the Subject Property on October 2, 2003, October 7, 2003, and April 2, 2004. A follow-up inspection occurred on October 22, 2008 for the preparation of this updated Phase I ESA. The field inspection consisted of walk-through inspections of the Subject Property as well as limited visual observations of neighboring properties. Adjacent properties were observed to the extent possible without trespassing. Refer to the discussion in **Section 2.2** and **Section 2.5** which describes site and vicinity characteristics and current uses of the Subject Property, respectively. Photographs documenting conditions observed on the Subject Property during the October 22, 2008 site inspection are shown on **Figures 4 through 7**.

3.3 INTERVIEWS AND QUESTIONNAIRES

Standard property owner and user questionnaires were completed by a representative of the Subject Property owners. These questionnaires are included as **Appendix E**. No RECs are identified in the questionnaires.

On October 23, 2008, a standard property owner questionnaire was completed by the owner of the Shenandoah Inn, Usha Patel. There are no hazardous materials stored on the hotel property.

Pool chemicals are stored in amounts that do not require regulatory oversight or permitting. Two 500 gallon liquid propane tanks are located next to the hotel. These tanks appear to be in good working order and are managed through a private contractor. Cleaner, degreasers, and floor stripping chemicals are stored in a designated area and used according to manufacturer's guidelines. As such, the presence of these materials does not constitute a Recognized Environmental Condition.

As stated in **Section 2.6**, individual property owners were interviewed in 2003 during the preparation of a Phase I ESA. No RECs were identified by the Subject Property owners during the interviews. There are no changes in land uses on any of the Subject Property parcels since 2003. The information provided by the property owner of Parcels 6, 7, 8, 9, 10, and 11 is deemed reliable for this updated Phase I ESA.

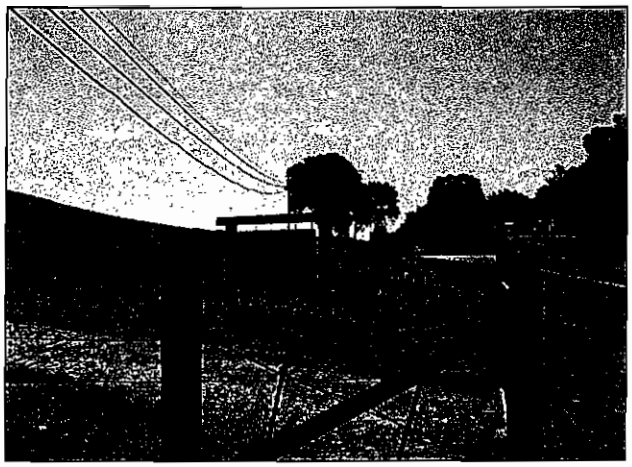


PHOTO 1: Driveway leading to Parcel 1 off Highway 49. Photo was taken facing south.

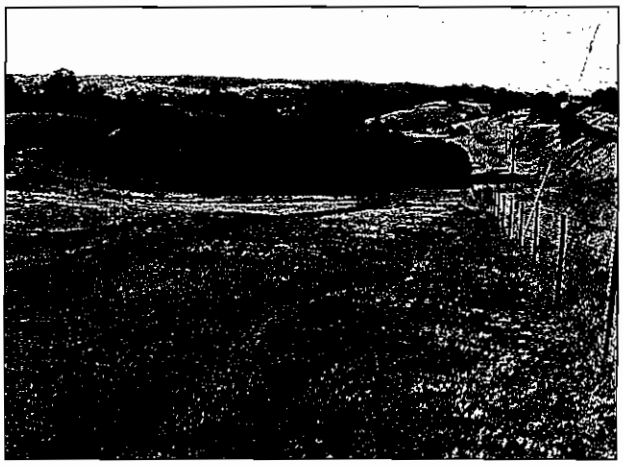


PHOTO 2: Western portion of Parcel 1 next to Highway 49. Photo was taken facing south.

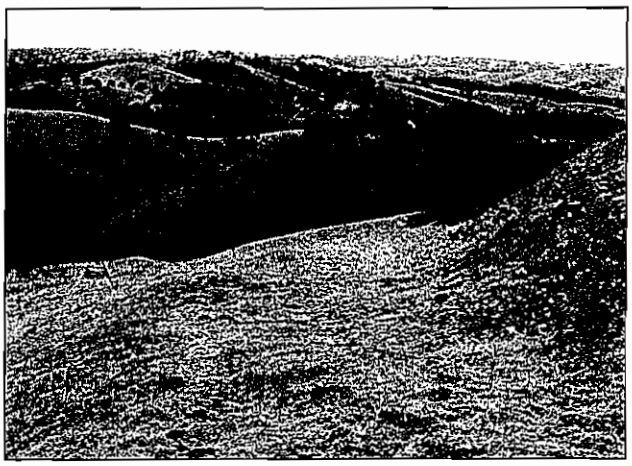


PHOTO 3: Northeastern portion of Parcel 1 facing southeast.

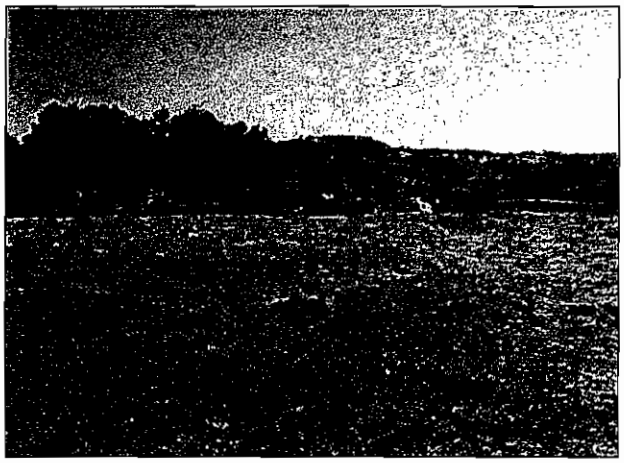


PHOTO 4: Mine shaft filled with debris on Parcel 1.

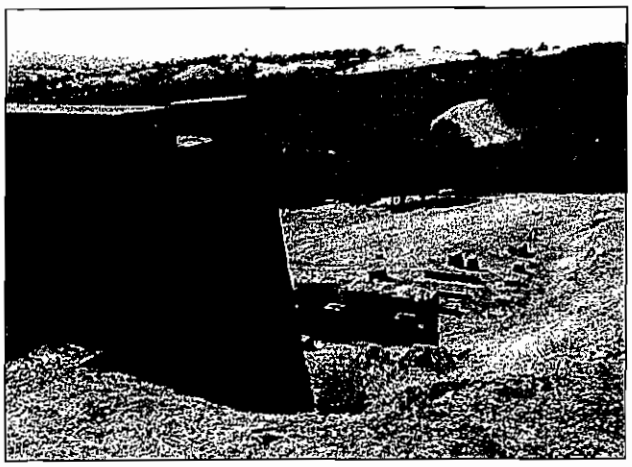


PHOTO 5: Concrete foundations associated with the mine on Parcel 1. Photo taken facing southwest.

SOURCE: AES, 2008

Figure 4
Site Photographs

PHOTO 6: Northern border of Parcel 2 facing west.

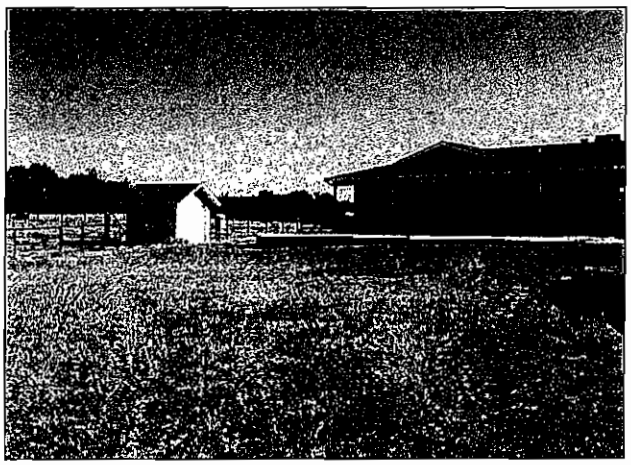


PHOTO 8: Ranch style house on Parcel 2.

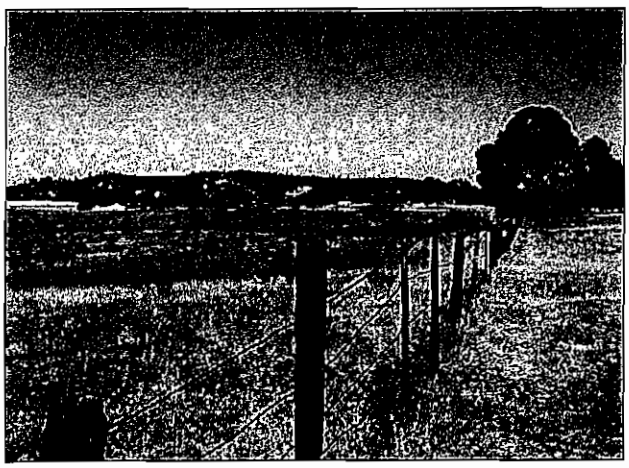


PHOTO 10: Parcel 3 facing north. Photo was taken along the eastern border of Parcel 2.

PHOTO 7: Steep wooded area along the southeast corner of the Subject Property (Parcel 2).

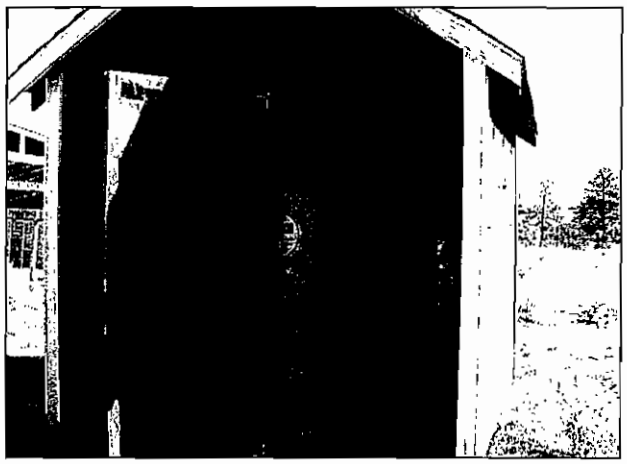


PHOTO 9: Domestic well located on Parcel 2.

SOURCE: AES, 2008

Figure 5
Site Photographs

PHOTO 11: Marquis sign along Highway 49.

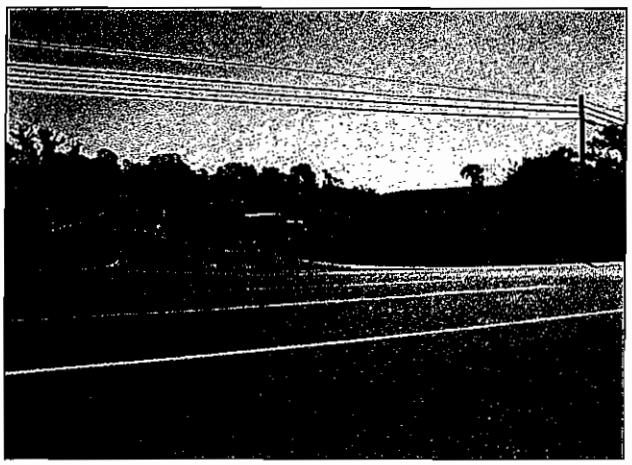


PHOTO 13: Intersection of Village Drive and Highway 49 showing Parcel 7 and 10.

PHOTO 15: Fire hydrant on Village Drive.

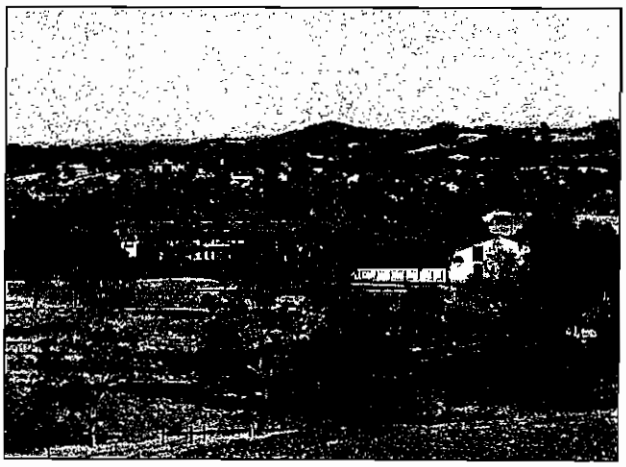


PHOTO 12: Shenandoah Inn location on Parcel 5. Photo taken from Parcel 1 facing north.

PHOTO 14: Parcel 11 facing north. Photo taken from the northwest corner of Parcel 1.

SOURCE: AES, 2008

Figure 6
Site Photographs

PHOTO 16: An approximate 1,500 square foot residential structure located on Parcel 8.

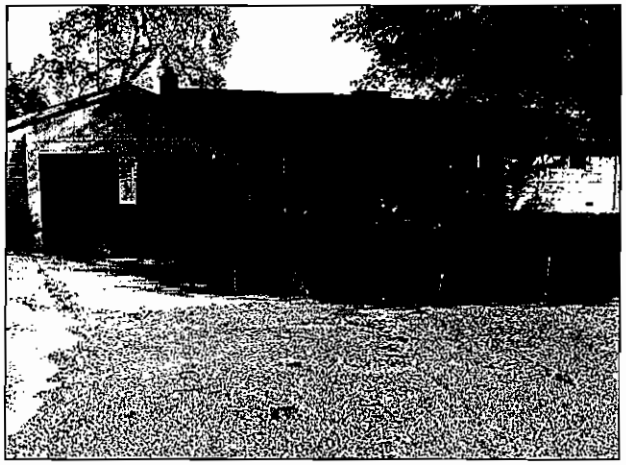


PHOTO 17: An approximately 1,200 square foot vacant residential structure located on Parcel 9.

PHOTO 18: An approximately 1,200 square foot vacant residential structure located on Parcel 12.

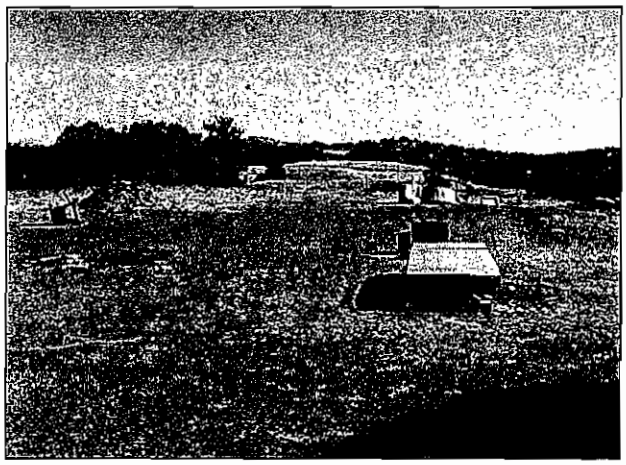


PHOTO 19: Items of household debris located on Parcel 12.

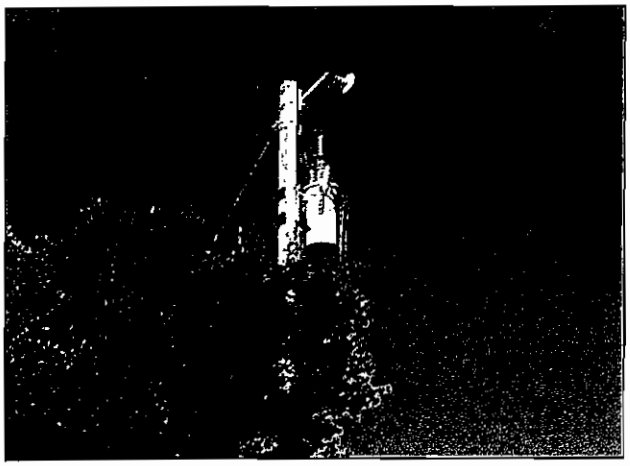


PHOTO 20: Pole mounted transformer located on Parcel 8.

PHOTO 21: Pole mounted transformer located on Parcel 12.

SOURCE: AES, 2008

Figure 7
Site Photographs

SECTION 4.0

RECORDS REVIEW

SECTION 4.0
RECORDS REVIEW

4.1 DATABASE REVIEW

Database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or contamination. Databases were searched for sites and listings up to one mile from a point roughly equivalent to the center of the Subject Property. The environmental database review was accomplished by using the services of a computerized search firm *Environmental Data Resources, Inc.* (EDR). EDR uses a geographical information system to plot locations of past or previous hazardous materials involvement. AES reviewed the EDR report to determine if the Subject Property and adjacent sites are listed on regulatory agency databases. The purpose of review of adjacent properties is to determine if adjacent sites will impact surface and/or subsurface conditions on the Subject Property. Included in the EDR database report is a list of "unmapped sites". AES reviewed the list of unmapped sites for the properties that may be located within the search radius specified for each governmental database. These sites do not appear to be located within the applicable search radius of the Subject Property. The complete list of reviewed databases is provided in the EDR report, included in **Appendix D** and is summarized in **Table 4-1**. Information on past and/or current hazardous materials involvement involving adjacent properties is summarized in **Section 4.2.2**.

4.2 HAZARDOUS MATERIALS INVOLVEMENT

A regulatory agency database report was obtained and reviewed to identify locations of past and/or current hazardous materials involvement. Regulatory agency databases were searched for records of known storage tank sites and known sites of hazardous materials generation, storage, or contamination, or where violations pertaining to storage and/or use of hazardous materials have occurred. Databases were searched for sites and listings up to two miles from a point roughly equivalent to the southeast corner of Parcel 3. Although a site may be listed within the database report, this does not mean the site is currently contaminated or will impact the environmental quality of the Subject Property. It should be noted that the database search is only as accurate as the data entered into the government agency maintained databases and the date on which those databases were last updated. Installation of underground storage tanks or hazardous

TABLE 4-1
ENVIRONMENTAL DATA RESOURCES (EDR) SUMMARY OF AGENCY DATABASES

Agency Database	Survey Distance	Sites Identified
Federal Superfund Liens (**NPL**[1] **RECOVERY**)	2.0 miles	0
CERCLA[2] Lien information (**LIENS 2**)	2.0 miles	
Hazardous Materials Information Reporting System (**HMIRS**)	2.0 miles	0
U.S. EPA Emergency Response Notification System (**ERNS**) List	1.0 miles	0
U.S. EPA RCRA Registered Large and Small Generators of Hazardous Waste (**RCRIS-LQG** and **RCRIS-SQG**)	1.25 miles	0
U.S. EPA RCRA Transporters, Storage, and Disposal of Hazardous Waste Facilities (**RCRIA - TSDF**)	1.5 miles	0
RCRA Conditionally Exempt Small Quantity Generators (**RCRA – CESQG**)	1.25 miles	0
U.S. EPA RCRA Transporters, Storage, and Disposal of Hazardous Waste (**RCRA - TSD**)	1.5 miles	
U.S. Engineering Controls[3]	1.5 miles	0
U.S. Institutional Controls[4]	1.5 miles	0
Department of Defense Sites (**DOD**)	2.0 miles	0
Comprehensive Environmental Response, Compensation, and Liability, Information System (**CERCLIS – NFRAP**)	1.5 miles	0
Mines Master Index File (**MINES**)	1.25 miles	0
Open Dump Inventory (**ODI**)	1.5 miles	0
Formerly Used Defense Sites (**FUDS**)	2.0 miles	0
Corrective Action Reports (**CORRACTS**)	2.0 miles	0
CORTESE	1.5 miles	2
State Hazardous Site List (**HSL**)	2.0 miles	0
State Coalition for Remediation of Drycleaners List (**SCRD Drycleaners**)	1.25 miles	0
State Solid Waste Tire Facility (**SWTIRE**)	1.5 miles	0
Facility and Hazardous Materials Manifest Data (**HAZNET**)	1.0 miles	0
Underground Storage Tank Database (**UST**)	1.25 miles	3
Hazardous Water Manifest Data (**CA Manifest**)	1.25 miles	0
State Solid Waste Facilities (**SWF – LF**)	1.5 miles	1
California Wastes Discharge System Database (**WDS**)	1.0 miles	1
Enviostor Database (**EnviroStor Database**)	2.0 miles	2
California Underground Storage Tank Database (**CA FID UST**)	1.25 miles	0
Leaking Underground Storage Tank (**LUST**) Sites	1.5 miles	2
State Spills, Leaks, Investigations, and Cleanups Listing (**SLIC**)	1.0 miles	0
State Hazardous Substance Storage Container Database (**HIST UST**)	1.25 miles	3
Statewide Environmental Evaluation and Planning System (**SWEEPS UST**)	1.25 miles	0
Voluntary Cleanup Program Properties (**VCP**)	1.5 miles	0

[1]National Priority List
[2]Comprehensive Environmental Response Cleanup and Liability
[3]Enginering controls include various forms of caps, building foundations, liners, and treatment methods to eliminate exposure pathways into environmental media (soils, water) or affect human health.
[4]Institutional controls include administrative measures such as groundwater use restrictions; construction restrictions, property use restrictions, and post remediation care requirements.
Souree: Environmental Data Resources, Inc. 2008

material releases, if not reported to the appropriate agency, would not be listed on any of the databases searched.

4.2.1 SUBJECT PROPERTY

The Subject Property was not listed on any of the regulatory agency databases that were searched by EDR.

4.2.2 ADJACENT PROPERTIES

Several sites were identified in the database report. The list below identifies the sites as they appear in the EDR Radius Map Report (**Appendix C**).

1. The first site is listed on the Haznet database as being located at the intersection of Main Street and State Highway 49 in the town of Plymouth. The EDR report does not give an address for this site however several online mapping services identify the Sierra Trading Post as being at located 18725 State Highway 49, approximately 0.75 miles from the Subject Property. The Sierra Trading Post generates approximately 2.2184 tons of unspecified oil containing waste that is removed from the site and taken to a recycler.

2. The second site is listed as the Exxon Station #506 located at the intersection of Main Street and State Highway 49 in the town of Plymouth; this is the same location as the Sierra Trading Post. The Exxon Station # 506 is listed on the Hist UST database as the location of three underground storage tanks.

3. A third site is identified in the database report as the E-Z Serve located at 18725 State Highway 49. The E-Z Serve site is listed on the Leaking Underground Storage Tank (LUST) database. A pollution Characterization and Remedial Action were implemented in January and February 2008. The E-Z Serve site is located approximately 0.75 miles north of the Subject Property and is being clean up through Regional Water Quality Control Board oversight. It does not appear that at this time the E-Z serve site would affect the environmental quality of the Subject Property.

4. The fourth site listed in the EDR report is Foothill Garage and Wrecking located approximately 0.75 miles from the Subject Property at 9408 Pacific Street, Plymouth. The Foothill Garage and Wrecking Site is listed on the California Waste Discharge (WDR) database as the location of an active facility with a continuous or seasonal discharge regulated under California WDR requirements. This facility poses a minor threat to water quality in the event of a violation of WDR requirements. The EDR lists the Foothill Garage and Wrecking site as a Category C Facility which is a site with no waste treatment system, such as cooling water discharges or those sites who must comply through best management practices to ensure water quality is not compromised. The Foothill Garage and Wrecking site is also listed on the

Envirostor database as a site in which a site screening and preliminary assessment were completed in 1987.

The remaining listed sites are located beyond 0.50 miles from the Subject Property and are not considered an environmental threat to the Subject Property.

SECTION 5.0

FINDINGS AND CONCLUSIONS

SECTION 5.0
FINDINGS AND CONCLUSIONS

AES performed this Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Standard Practice E1527-05 for the approximately 228-04 acres Subject Property located in Amador County California. Any exceptions to, or deletions from, this practice are described in **Section 1.5** of this Phase I ESA. The Amador County assessors' parcel numbers (APNs) for the Subject Property are listed in **Table 2-1** and a summary of improvements on the Subject Property are listed in **Table 2-2**. Based on information gathered while conducting this Phase I ESA, AES observed the following:

- Current land uses include vacant undeveloped land used for cattle gazing, a 49 room hotel, and rural residential.

- The Subject Property is not listed on any regulatory agency database for hazardous materials involvement. Property ownership records do not suggest any businesses being located on the Subject Property that would use, store, and/or generate hazardous materials.

- Several items of non-hazardous debris are located on Parcel 12 including a pile of roofing materials. These materials do not appear to be of an age were asbestos containing materials (ACMs) would be present, nevertheless, these materials should be removed and taken to a licensed disposal facility.

- Several piles of mine tailings were observed on Parcel 1. The mine is shown as the Pioneer Mine on the United States Geological Survey topographic map (**Figure 2**). The tailings are characteristic of unprocessed crushed hard rock in which gold ore has not been extracted. As noted in **Section 2.2**, vegetation in the areas adjacent to the abandoned mine appear healthy and there are no signs of erosion of the mine tailings. The mine site is located on a remote hill top with no public access. In March, 2005 water samples were collected from three seasonal streams and tested for pH. The range of pH was 6.45 to 7.04. In September, 2008 bulk soil samples were collected from the mine tailings and analyzed for CAM-17 heavy metals and for naturally occurring asbestos (NOA). All samples were non-detect for NOA as shown in the laboratory report attached to this ESA (**Appendix G, Table 1**). Several exceedances were noted for arsenic. The

exceedances for arsenic are common in the foothills of Northern California, were background levels within the Sierra Foothills often exceed 1,000 ppm (AEHS, 2008).

Based on available information, the mine tailings constitute a Recognized Environmental Condition on the Subject Property. There are currently no plans to develop in the vicinity of the former mine. The mine tailings may be capped with a vegetative cover thereby preventing erosion. Capping mine tailings is an accepted risk reduction approach utilized by federal agencies (UDSA, 2003). A vegetative cover with thick rooted plants would eliminate the risk of human exposure to soils that contain high levels of arsenic. In addition to a vegetative cover, the tailings area should be fenced off to prevent public access. As such, leaving the mine tailings in place does not pose an immediate risk to human health and the environment. Additional assessments including a risk evaluation would be necessary if land disturbing activities are planned for areas adjacent to the mine.

SECTION 6.0

REPORT AUTHORS/ REFERENCES

SECTION 6.0
REPORT AUTHORS AND REFERENCES

The undersigned declare to the best of their professional opinion that they meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. Peter J. Connelly, Registered Environmental Assessor (REA), prepared this report, qualifies as an environmental professional (EP) as defined in the ASTM Standard E1527-05, and has the specific qualifications based on education, training, and experience to assess a property of the nature, and setting of the Subject Property. He prepared this report under the professional supervision of David Zweig, P.E. who also qualifies as an EP. Pete Connelly and David Zweig's signatures appear below, and their resumes are included as **Appendix F**.

Author: _____
Peter J. Connelly, REA Associate

Review: _____
David Zweig, P.E., President AES

REFERENCES

AEHS, 2008. Association of the Environmental Health of Soils. Study of State Soil Arsenic Regulations. California State background arsenic levels: see Table 2.

AES, 2008. Analytical Environmental Services. Environmental Impact Statement Ione Band of Miwok Indians 228.04 Acre Land Transfer and Casino Project. Dated November 2008.

American Society for Testing and Materials (ASTM) 2005. Practice E1527-05: "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process."

Environmental Data Resources (EDR). 2008. Ione Casino Site, Highway 49, Plymouth CA 95685. EDR Radius Map with Geocheck, October 20, 2008. EDR inquiry number 2343350.2s.

Geocon, 2005. Geotechnical and Geological Reconnaissance Study. Proposed Casino and Hotel Treated Water Seasonal Storage Reservoir Amador County, California. April 2005.

Hauter, Ron. 2004. Personal Interview. February 25, 2004. Property Owner Parcel 2.

Jameson, 2008. Johnny "Gil" Jameson. Tribal Vice Chair Ione Band of Miwok Indians. Telephone interview occurred on November 4, 2008.

LaFrank, Laura. 2004. Personal Interview. April 2, 2004. Property Owner Parcel 12.

Matulich, Ron. 2003. Personal Interview. October 7, 2003 and October 24, 2008. Property Owner Parcel 1.

Patel, Usha. 2008. Personal Interview: October 2, 2003 and October 22, 2008. (Owner: Shenandoah Inn) (Parcels 4 and 5). Phone number (209) 245-4491.

Schaff, Dawn. 2003. Building Permit Technician, Amador County Building Department. Jackson California. Phone (209) 223-6422.

United States Department of Agriculture (USDA), 2007. Web Soil Survey 1.1, National Cooperative Soil Survey.

United States Department of Agriculture (USDA), 2003. Engineering Evaluation/Cost Analysis for the Siskon Mine Tailings and Mill Site. Prepared for the Ukonon/Orleans Ranger

District, Six Rivers National Forrest 1330 Bayshore Way, Eureka, CA. Available online at: http://www.fs.fed.us/r5/klamath/publications/pdfs/siskonmine/SiskonEECA12May03Final.pdf

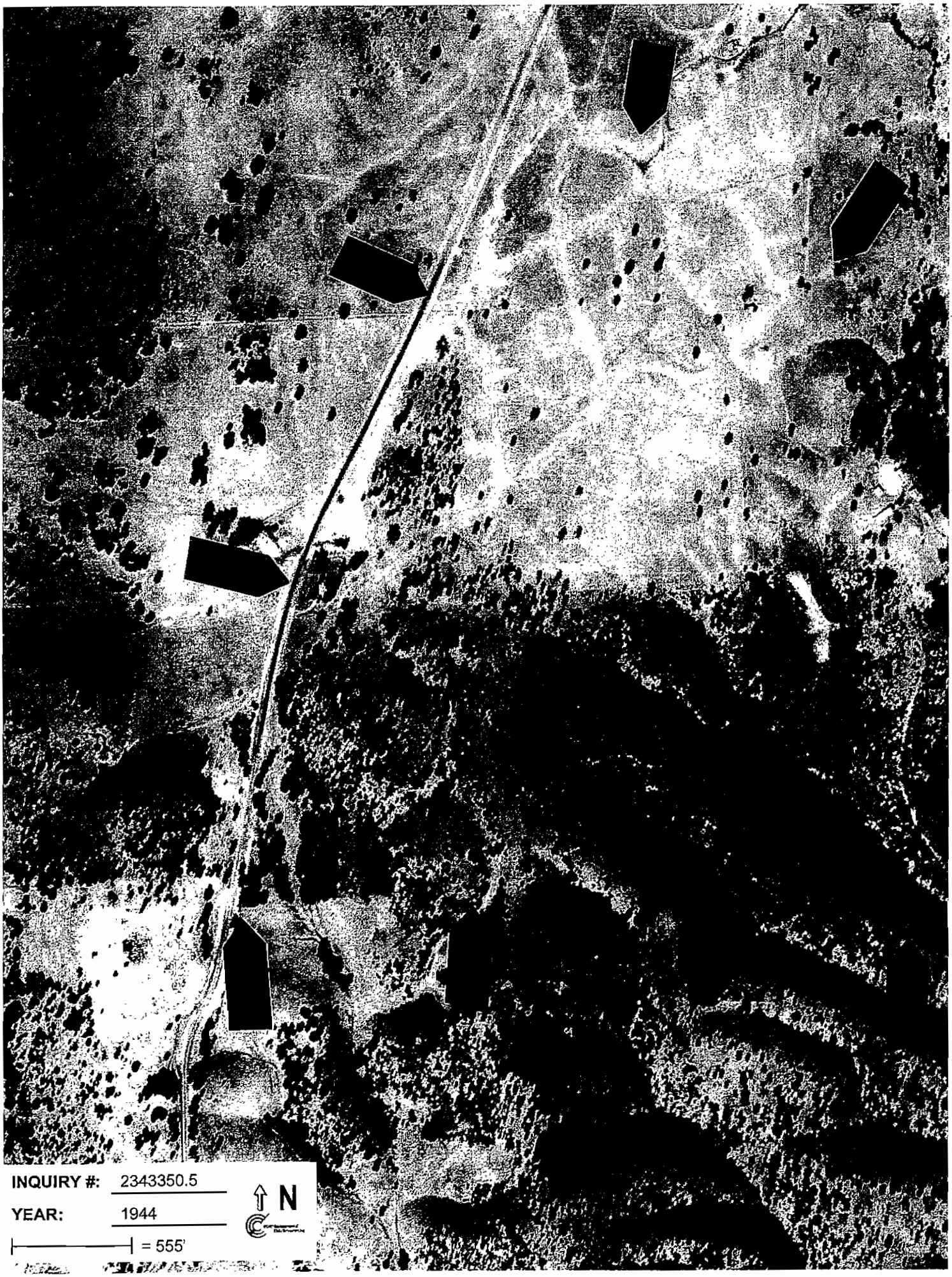
Wheeler, Norman. 2003. Personal Interview October 28, 2003. Property Owner Parcels 6, 7, 8, 9, 10, and 11.

http://www.fs.fed.us/r5/klamath/publications/pdfs/siskonmine/SiskonEECA12May03Final.pdf

APPENDICES

APPENDIX A

HISTORIC AERIAL PHOTOGRAPHS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N

INQUIRY #: 2343350.5

YEAR: 1962

= 555'

N


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YEAR: 1984
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N


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YEAR: 1987
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N


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YEAR: 1998
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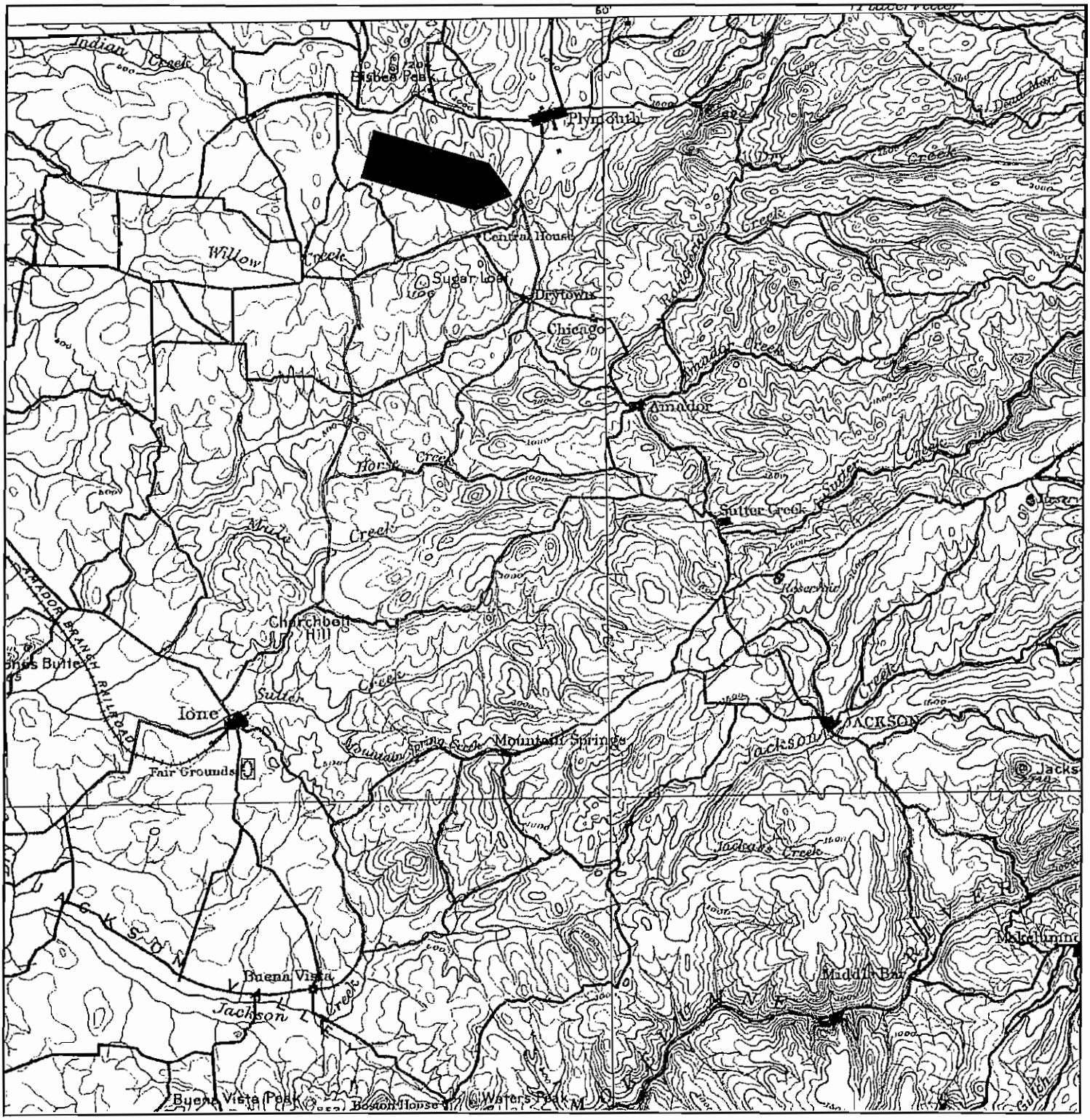
APPENDIX B

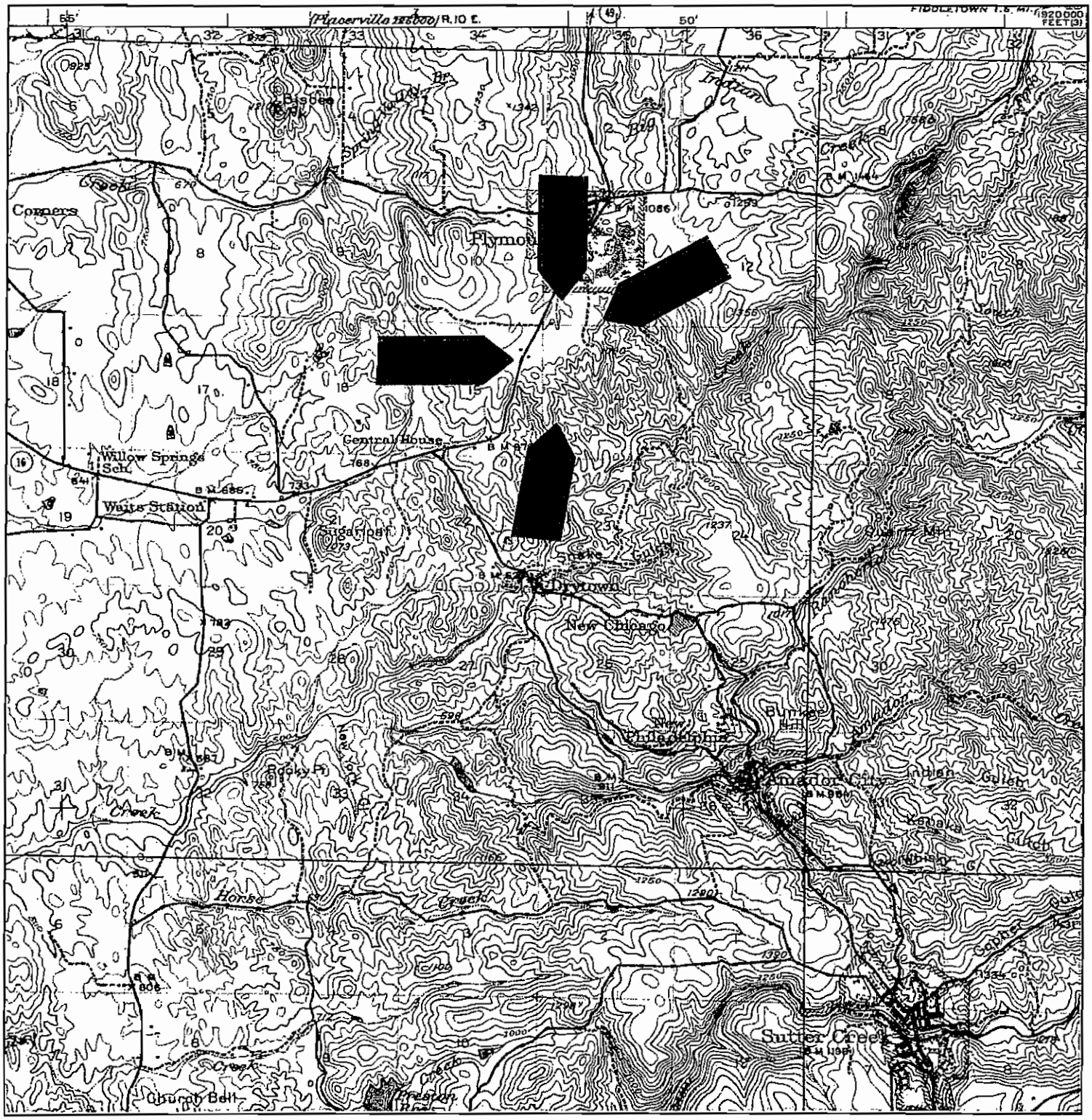
HISTORIC TOPOGRAPHIC MAPS

Historical Topographic Map



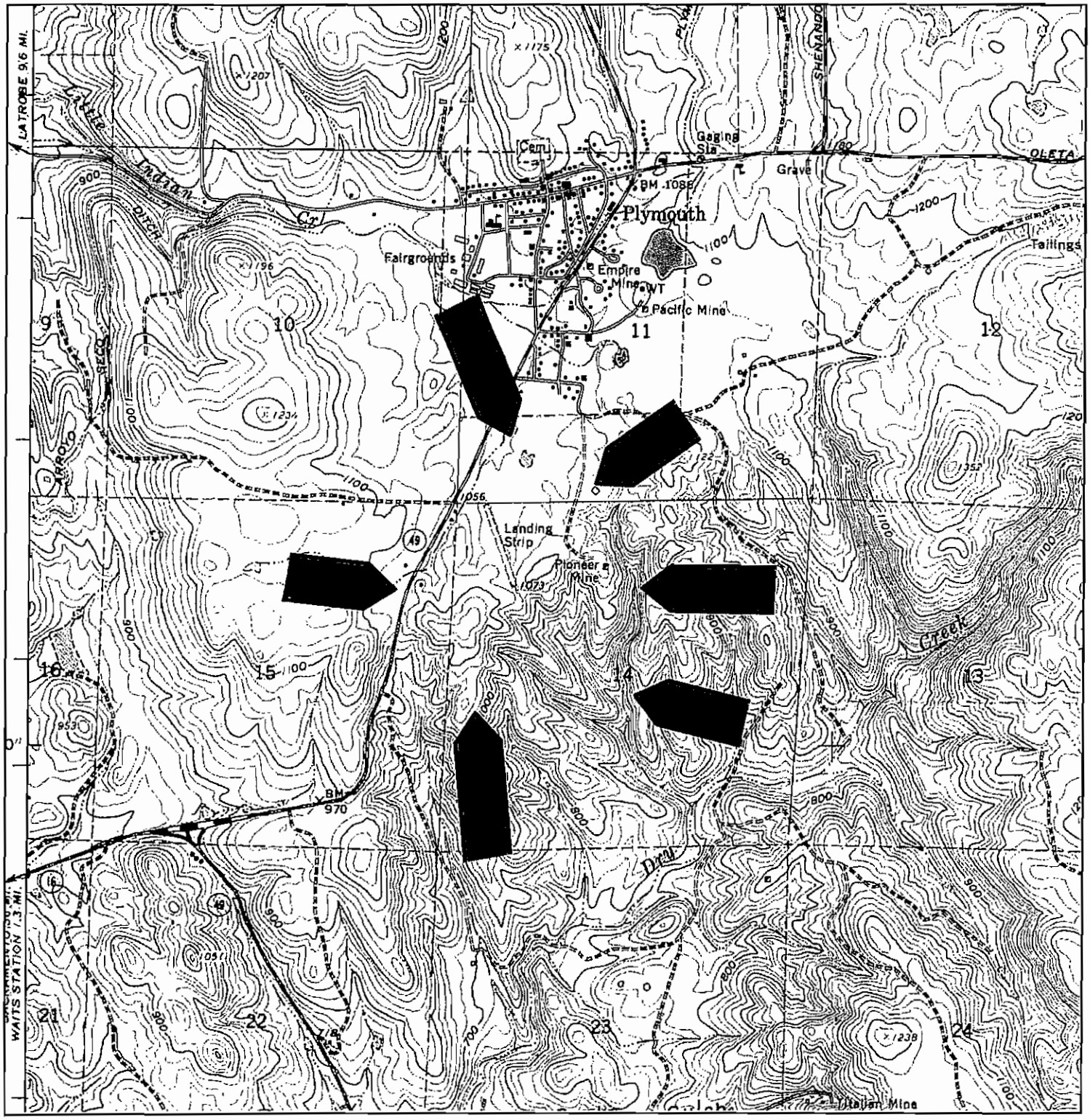
N	TARGET QUAD NAME: JACKSON MAP YEAR: 1902 SERIES: 30 SCALE: 1:125000	SITE NAME: Ione Casino Site ADDRESS: Highway 49 Plymouth, CA 95669 LAT/LONG: 38.4646 / 120.852	CLIENT: Analytical Environmental Serv. CONTACT: Pete Connelly INQUIRY#: 2343350.4 RESEARCH DATE: 10/20/2008

Historical Topographic Map



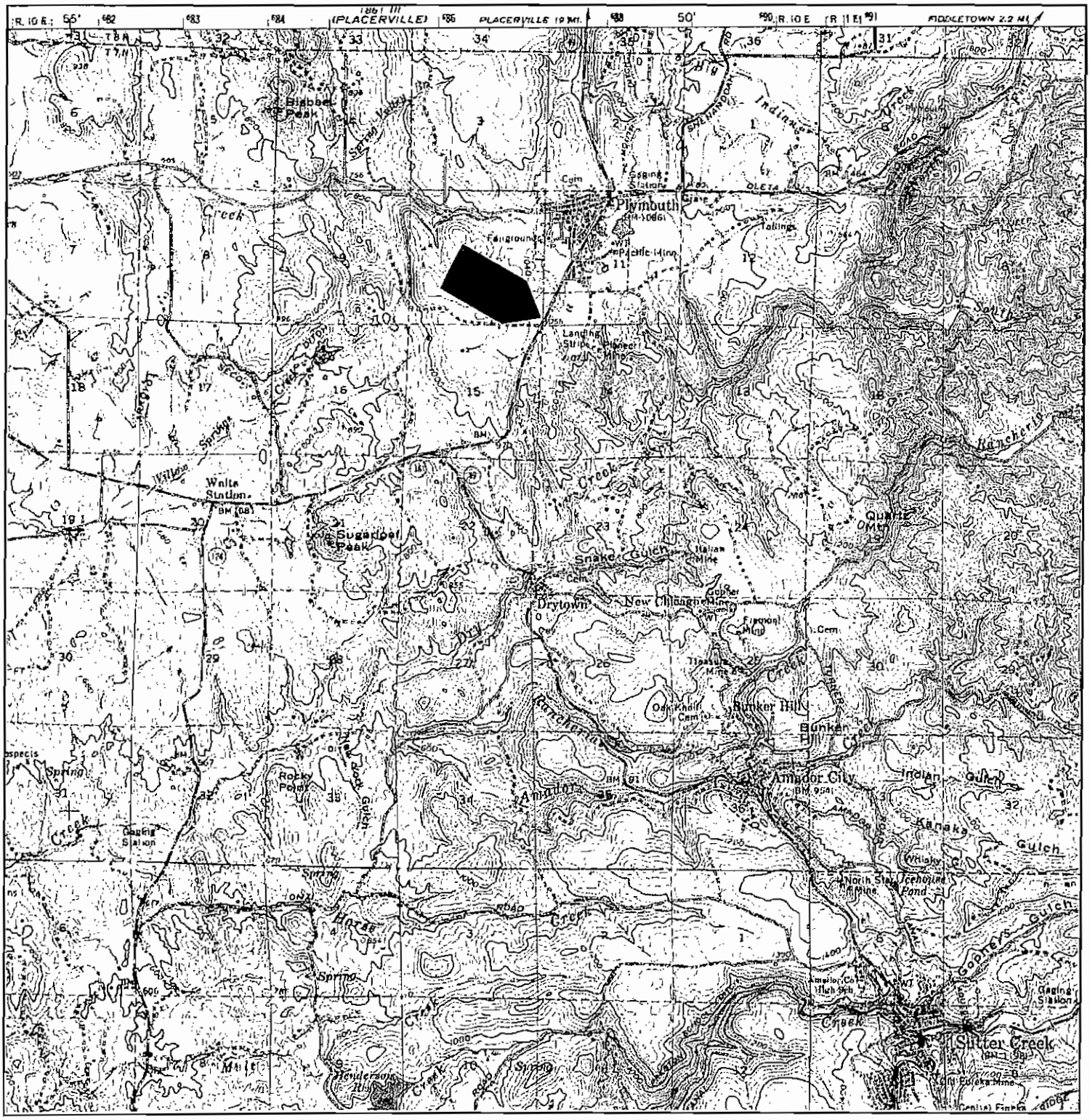
N ↑	TARGET QUAD NAME: SUTTER CREEK MAP YEAR: 1944 SERIES: 15 SCALE: 1:62500	SITE NAME: Ione Casino Site ADDRESS: Highway 49 Plymouth, CA 95669 LAT/LONG: 38.4646 / 120.852	CLIENT: Analytical Environmental Serv. CONTACT: Pete Connelly INQUIRY#: 2343350.4 RESEARCH DATE: 10/20/2008

Historical Topographic Map



N	TARGET QUAD NAME: AMADOR CITY MAP YEAR: 1962 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Ione Casino Site ADDRESS: Highway 49 Plymouth, CA 95669 LAT/LONG: 38.4646 / 120.852	CLIENT: Analytical Environmental Serv. CONTACT: Pete Connelly INQUIRY#: 2343350.4 RESEARCH DATE: 10/20/2008

Historical Topographic Map



N	TARGET QUAD NAME: SUTTER CREEK MAP YEAR: 1962 SERIES: 15 SCALE: 1:62500	SITE NAME: Ione Casino Site ADDRESS: Highway 49 Plymouth, CA 95669 LAT/LONG: 38.4646 / 120.852	CLIENT: Analytical Environmental Serv. CONTACT: Pete Connelly INQUIRY#: 2343350.4 RESEARCH DATE: 10/20/2008

APPENDIX C

Environmental Data Resources (EDR) Database Report

Ione Casino Site
Highway 49
Plymouth, CA 95685

Inquiry Number: 2343350.2s
October 20, 2008

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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

HIGHWAY 49
PLYMOUTH, CA 95685

COORDINATES

Latitude (North):	38.464630 - 38° 27' 52.7"
Longitude (West):	120.851750 - 120° 51' 6.3"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	687429.2
UTM Y (Meters):	4259348.0
Elevation:	1087 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	38120-D7 AMADOR CITY, CA
Most Recent Revision:	1962

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
CORRACTS	Corrective Action Report
RCRA-TSDF	RCRA - Transporters, Storage and Disposal
RCRA-LQG	RCRA - Large Quantity Generators

EXECUTIVE SUMMARY

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
DOD	Department of Defense 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 Redediation 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
WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
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
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

EXECUTIVE SUMMARY

EMI..... Emissions Inventory Data
HAULERS..... Registered Waste Tire Haulers Listing

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

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.

STATE AND LOCAL RECORDS

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, and dated 09/08/2008 has revealed that there is 1 SWF/LF site within approximately 1.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PLYMOUTH CITY-COUNTY DUMP	T7NR10E SEC 3 LFT BEND	NW 1 - 2 (1.350 mi.)	C9	14

CA WDS: California Water Resources Control Board - Waste Discharge System.

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

Lower Elevation	Address	Direction / Distance	Map ID	Page
FOOTHILL GARAGE & WRECKING	***9408 PACIFIC ST***	***NNE 1/2 - 1 (0.788 mi.)***	***4***	***8***

EXECUTIVE SUMMARY

Cortese: 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.

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 Cortese sites within approximately 1.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
E-Z SERVE	*18725 HWY 49*	*NW 1/8 - 1/4 (0.244 mi.)*	*3*	*7*
26TH AGRIC ASSOC	*18500 SHERWOOD ST*	*N 1/2 - 1 (0.967 mi.)*	*B6*	*11*

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 07/03/2008 has revealed that there are 2 LUST sites within approximately 1.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
E-Z SERVE	*18725 HWY 49*	*NW 1/8 - 1/4 (0.244 mi.)*	*3*	*7*
Facility Status: Remedial action (cleanup) Underway				
26TH AGRIC ASSOC	*18500 SHERWOOD ST*	*N 1/2 - 1 (0.967 mi.)*	*B6*	*11*
Facility Status: Case Closed				

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 3 HIST UST sites within approximately 1.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EXXON STATION #506	HIGHWAY 49 / MAIN ST.	0 - 1/8 (0.000 mi.)	A2	6
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CITY OF PLYMOUTH	18500 SHERWOOD STREET	N 1/2 - 1 (0.967 mi.)	B5	10
WALTER ABERCROMBIE	9414 MAIN ST	NNE 1 - 2 (1.168 mi.)	7	12

HAZNET: 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 from non-California manifests & continuation sheets are not included at the present time. 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, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, and dated 12/31/2006 has revealed that there is 1 HAZNET site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SIERRA TRADING POST	HIGHWAY 49 / MAIN STR	0 - 1/8 (0.000 mi.)	A1	6

EXECUTIVE SUMMARY

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

A review of the ENVIROSTOR list, as provided by EDR, and dated 08/25/2008 has revealed that there are 2 ENVIROSTOR sites within approximately 2 miles of the target property.

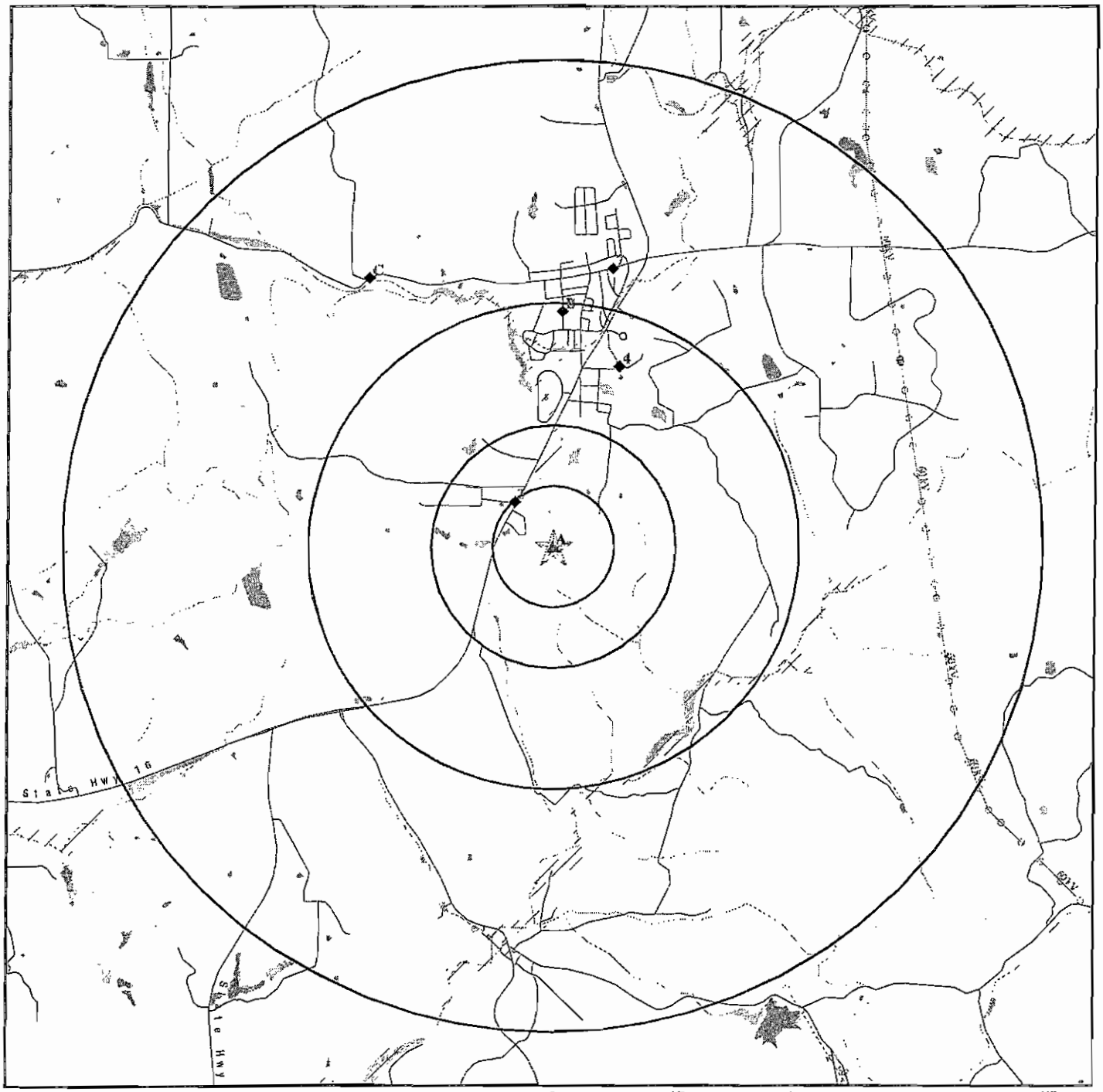
Lower Elevation	Address	Direction / Distance	Map ID	Page
FOOTHILL GARAGE & WRECKING Facility Status: Refer: Other Agency	***9408 PACIFIC ST***	***NNE 1/2 - 1 (0.788 mi.)***	***4***	***8***
PLYMOUTH DUMP Facility Status: Refer: RWQCB	OLD SACRAMENTO RD / O	NW 1 - 2 (1.338 mi.)	C8	13

EXECUTIVE SUMMARY

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

Site Name	Database(s)
PLYMOUTH HARDWARE AND FEED	FTTS
SIERRA TRADING POST #6	SWEEPS UST
FAR HORIZONS 49ER TRAILER VILL	SWEEPS UST
VILLAGE FOOD MART	SWEEPS UST
SIERRA TRADING POST #4	SWEEPS UST
ALLEN RAY JORDON	HAZNET, CDL
SUTTER HILL STATION	LUST, Cortese
CENTRAL EUREKA MINE	CERCLIS, FINDS
SIERRA TRADING POST-PLYMOUTH-#6	UST
SHENANDOAH VILLAGE MART	HAZNET, UST
SIERRA TRADING POST-SUTTER HILL-#4	UST
LINCOLN MINE CENTER	VCP, ENVIROSTOR
SUTTER HILL FFS	AST
ACM MACHINING	HAZNET
ACM MACHINING INC	HAZNET
GRANITE CONSTRUCTION	HAZNET
BRIFMAN RANCH	HAZNET
PACIFIC BELL	RCRA-SQG, FINDS, HAZNET
AMADOR COUNTY USD	HAZNET
VILLAGE MART INC DBA SHENANDOAH	HAZNET
CDF SUTTER HILL FIRE STATION	HAZNET
DON WILKE'S SUBARUPLUS	HAZNET
PETROLEUM PUMP & METER	HAZNET
BOITANO SITE	FINDS
WILLOW SPRING SHALE MINE	CA WDS
CENTRAL EUREKA MINE	ICIS
TOMRA PACIFIC INC	SWRCY
E-Z SERVE	ENVIROSTOR
RINEHART IRON WORKS	ENVIROSTOR

OVERVIEW MAP - 2343350.2s

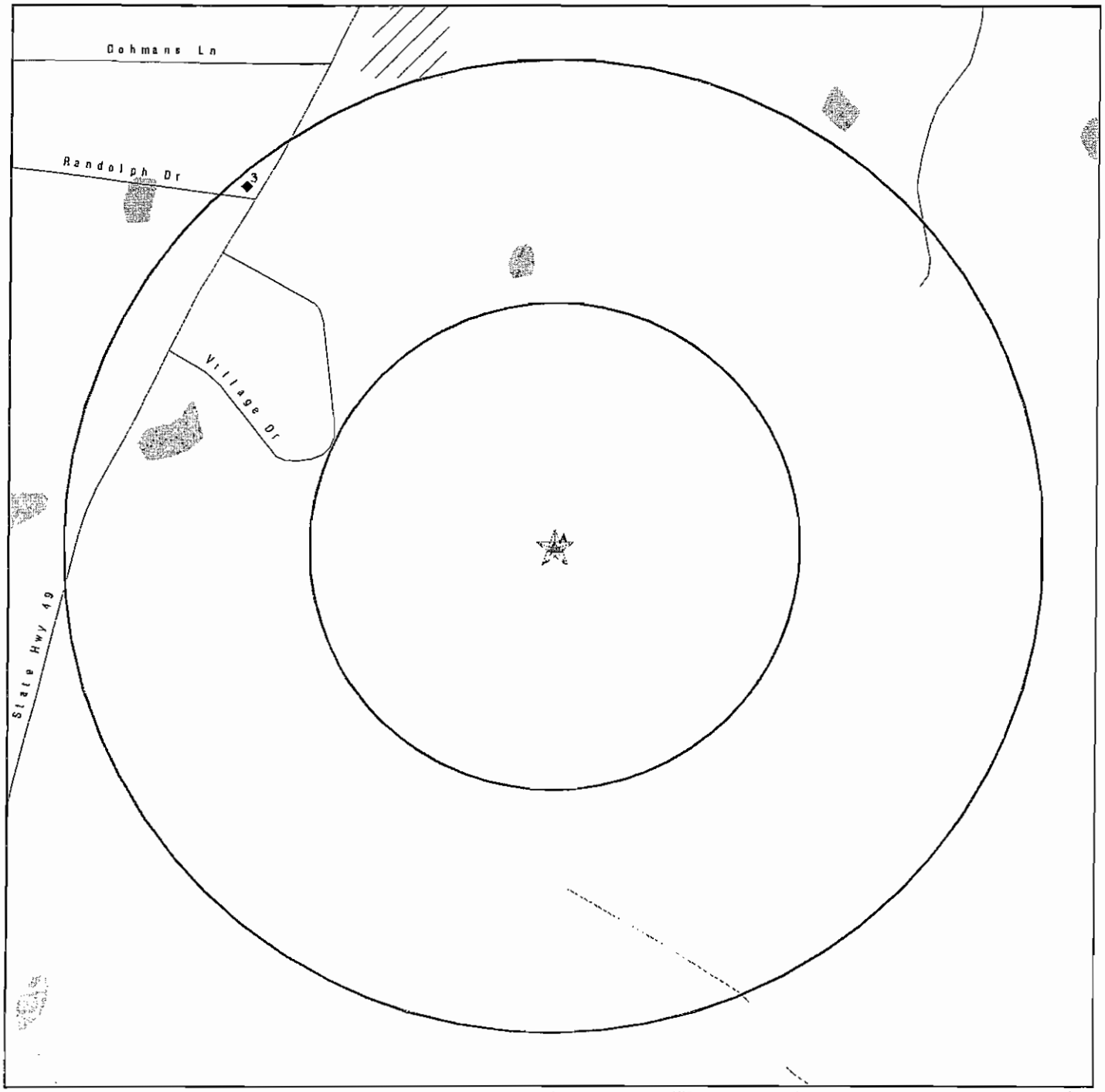


- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- 100-year 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: Ione Casino Site ADDRESS: Highway 49 Plymouth CA 95685 LAT/LONG: 38.4646 / 120.8517	CLIENT: Analytical Environmental Serv. CONTACT: Pete Connelly INQUIRY #: 2343350.2s DATE: October 20, 2008 8:47 am

DETAIL MAP - 2343350.2s



- 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

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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
FEDERAL RECORDS								
NPL		2.000	0	0	0	0	0	0
Proposed NPL		2.000	0	0	0	0	0	0
Delisted NPL		2.000	0	0	0	0	0	0
NPL LIENS		1.000	0	0	0	0	NR	0
CERCLIS		1.500	0	0	0	0	0	0
CERC-NFRAP		1.500	0	0	0	0	0	0
LIENS 2		1.000	0	0	0	0	NR	0
CORRACTS		2.000	0	0	0	0	0	0
RCRA-TSDF		1.500	0	0	0	0	0	0
RCRA-LQG		1.250	0	0	0	0	0	0
RCRA-SQG		1.250	0	0	0	0	0	0
RCRA-CESQG		1.250	0	0	0	0	0	0
RCRA-NonGen		1.250	0	0	0	0	0	0
US ENG CONTROLS		1.500	0	0	0	0	0	0
US INST CONTROL		1.500	0	0	0	0	0	0
ERNS		1.000	0	0	0	0	NR	0
HMIRS		1.000	0	0	0	0	NR	0
DOT OPS		1.000	0	0	0	0	NR	0
US CDL		1.000	0	0	0	0	NR	0
US BROWNFIELDS		1.500	0	0	0	0	0	0
DOD		2.000	0	0	0	0	0	0
FUDS		2.000	0	0	0	0	0	0
LUCIS		1.500	0	0	0	0	0	0
CONSENT		2.000	0	0	0	0	0	0
ROD		2.000	0	0	0	0	0	0
UMTRA		1.500	0	0	0	0	0	0
DEBRIS REGION 9		1.500	0	0	0	0	0	0
ODI		1.500	0	0	0	0	0	0
MINES		1.250	0	0	0	0	0	0
TRIS		1.000	0	0	0	0	NR	0
TSCA		1.000	0	0	0	0	NR	0
FTTS		1.000	0	0	0	0	NR	0
HIST FTTS		1.000	0	0	0	0	NR	0
SSTS		1.000	0	0	0	0	NR	0
ICIS		1.000	0	0	0	0	NR	0
PADS		1.000	0	0	0	0	NR	0
MLTS		1.000	0	0	0	0	NR	0
RADINFO		1.000	0	0	0	0	NR	0
FINDS		1.000	0	0	0	0	NR	0
RAATS		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		1.500	0	0	0	0	0	0
STATE AND LOCAL RECORDS								
HIST Cal-Sites		2.000	0	0	0	0	0	0
CA BOND EXP. PLAN		2.000	0	0	0	0	0	0
SCH		1.250	0	0	0	0	0	0
Toxic Pits		2.000	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		1.500	0	0	0	0	1	1
WMUDS/SWAT		1.500	0	0	0	0	0	0
CA WDS		1.000	0	0	0	1	NR	1
Cortese		1.500	0	1	0	1	0	2
SWRCY		1.500	0	0	0	0	0	0
LUST		1.500	0	1	0	1	0	2
CA FID UST		1.250	0	0	0	0	0	0
SLIC		1.500	0	0	0	0	0	0
UST		1.250	0	0	0	0	0	0
HIST UST		1.250	1	0	0	1	1	3
AST		1.250	0	0	0	0	0	0
LIENS		1.000	0	0	0	0	NR	0
SWEEPS UST		1.250	0	0	0	0	0	0
CHMIRS		1.000	0	0	0	0	NR	0
Notify 65		2.000	0	0	0	0	0	0
DEED		1.500	0	0	0	0	0	0
VCP		1.500	0	0	0	0	0	0
DRYCLEANERS		1.250	0	0	0	0	0	0
WIP		1.250	0	0	0	0	0	0
CDL		1.000	0	0	0	0	NR	0
RESPONSE		2.000	0	0	0	0	0	0
HAZNET		1.000	1	0	0	0	NR	1
EMI		1.000	0	0	0	0	NR	0
HAULERS		1.000	0	0	0	0	NR	0
ENVIROSTOR		2.000	0	0	0	1	1	2
TRIBAL RECORDS								
INDIAN RESERV		2.000	0	0	0	0	0	0
INDIAN ODI		1.500	0	0	0	0	0	0
INDIAN LUST		1.500	0	0	0	0	0	0
INDIAN UST		1.250	0	0	0	0	0	0
INDIAN VCP		1.500	0	0	0	0	0	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		2.000	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

A1 **SIERRA TRADING POST** HAZNET S102792849
HIGHWAY 49 / MAIN STREET N/A
< 1/8 **PLYMOUTH, CA 95669**
1 ft.

Site 1 of 2 in cluster A

Relative: HAZNET:
Higher

Gepaid:	CAC000724184
Contact:	JIM PRYOR
Telephone:	0000000000
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	100 FRENCH BAR ROAD
Mailing City,St,Zip:	JACKSON, CA 956420000
Gen County:	3
TSD EPA ID:	CAD083166728
TSD County:	Stanislaus
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Tons:	2.2184
Facility County:	3

Actual:
1089 ft.

A2 **EXXON STATION #506** HIST UST U001613615
HIGHWAY 49 / MAIN ST. N/A
< 1/8 **PLYMOUTH, CA 95669**
1 ft.

Site 2 of 2 in cluster A

Relative: HIST UST:
Higher

Region:	STATE
Facility ID:	00000013387
Facility Type:	Gas Station
Other Type:	Not reported
Total Tanks:	0003
Contact Name:	DICK BROOKS
Telephone:	2092231400
Owner Name:	E-Z SERVE OF CALIFORNIA, INC.
Owner Address:	P.O. BOX 3550
Owner City,St,Zip:	ONTARIO, CA 91761
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	1/4" inches
Leak Detection:	Stock Inventor, None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Tank Construction:	1/4" inches
Leak Detection:	Stock Inventor, None
Tank Num:	003
Container Num:	3

Actual:
1089 ft.

EXXON STATION #506 (Continued) **U001613615**

Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Tank Construction:	3/16" inches
Leak Detection:	Stock Inventor, None

---

3 **E-Z SERVE** **LUST** **S101293929**
NW **18725 HWY 49** **Cortese** **N/A**
1/8-1/4 **PLYMOUTH, CA 95669**
0.244 mi.
1286 ft.

Relative: **Lower**

Actual: **1058 ft.**

LUST:

Region:	STATE
Status:	Remedial action (cleanup) Underway
Case Number:	030013
Local Case #:	Not reported
Chemical:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Release Date:	1988-06-21 00:00:00
Discover Date:	Not reported
Report Date:	Not reported
Enforcement Dt:	2001-05-03 00:00:00
Review Date:	Not reported
Enter Date:	1988-12-29 00:00:00
Stop Date:	Not reported
Confirm Leak:	1988-06-21 00:00:00
Case Type:	Drinking Water Aquifer affected
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	SEL
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global Id:	T0600500011
Workplan:	2001-04-20 00:00:00
Prelim Assess:	2006-08-14 00:00:00
Pollution Char:	2008-01-23 00:00:00
Remed Plan:	2006-04-24 00:00:00
Remed Action:	2008-02-01 00:00:00
Monitoring:	2003-07-09 00:00:00
MTBE Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Max MTBE GW ppb:	Not reported
Max MTBE Soil ppb:	Not reported
County:	03
Org Name:	Not reported
Reg Board:	5S
Contact Person:	Not reported
Responsible Party:	SIERRA TRADEING POST
RP Address:	100 FRENCH BAR RD, #20J, JACKSON, CA 95642
Interim:	Not reported
Oversight Prgm:	LUST
MTBE Class:	*

E-Z SERVE (Continued) S101293929

MTBE Conc: 0
MTBE Fuel: 1
MTBE Tested: MTBE Detected. Site tested for MTBE and MTBE detected
Staff: GTM
Staff Initials: Not reported
Lead Agency: Regional Board
Local Agency: 03000
Hydr Basin #: UNNAMED BASIN
Beneficial: MUN
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: No
Operator: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Summary: LETTER SENT 09/22/98 HARKEN APPEARS TO BE OWNED BY EZ-SERVE.

LUST REG 5:
Region: 5
Status: Remedial action (cleanup) Underway
Case Number: 030013
Case Type: Drinking Water Aquifer affected
Substance: GASOLINE
Staff Initials: GTM
Lead Agency: Regional
Program: LUST
MTBE Code: N/A

Cortese:
Region: CORTESE
Facility Addr2: 18725 HWY 49

4
NNE
1/2-1
0.788 mi.
4161 ft.

FOOTHILL GARAGE & WRECKING
9408 PACIFIC ST
PLYMOUTH, CA 95669

CA WDS S102008326
ENVIROSTOR N/A

Relative:
Lower

Actual:
1063 ft.

CA WDS:
Facility ID: 5S 031003887
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 0
Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: CROCKER EARL
Agency Address: Not reported
Agency City,St,Zip: 0
Agency Contact: Not reported

FOOTHILL GARAGE & WRECKING (Continued) S102008326

Agency Telephone: Not reported
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Sacramento
Facility ID: 03500003
Site Code: Not reported
Assembly: Not reported
Senate: Not reported
Special Program: * Rural County Survey Program
Status: Refer: Other Agency
Status Date: 1995-09-12 00:00:00
Restricted Use: NO
Funding: Not reported
Latitude: 38.4750996159352
Longitude: -120.847667245484
Alias Name: 03500003
Alias Type: Envirostor ID Number

APN: NONE SPECIFIED
APN Description: Not reported
Comments: FACILITY IDENTIFIED 87 PHONE BOOK.SITE SCREENING DONE. PRELIMINARY ASSESSMENT DONE. SITE INSPECTION LOW PRIORITY RECOMMENDED BASED ON PAST WASTE HANDLING PRACTICES.

Completed Info:
Completed Area Name: PROJECT WIDE

FOOTHILL GARAGE & WRECKING (Continued) **S102008326**

Completed Sub Area Name: Not reported
Completed Document Type: Discovery
Completed Date: 1987-10-01 00:00:00

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1987-11-09 00:00:00

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 1987-11-09 00:00:00

Confirmed: NONE SPECIFIED
Confirmed Description: Not reported
Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Media Affected: 10198, 10199, 20011
Media Affected Desc: Not reported
Media Affected Desc: Not reported
Media Affected Desc: Not reported

Management:
Management Required: NONE SPECIFIED
Management Required Desc: Not reported
Potential: NONE SPECIFIED
Potenital Description: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported
PastUse: NONE SPECIFIED

B5 CITY OF PLYMOUTH HIST UST U001613614
North 18500 SHERWOOD STREET N/A
1/2-1 PLYMOUTH, CA 95669
0.967 mi.
5105 ft. **Site 1 of 2 in cluster B**

Relative: Lower
Actual: 1042 ft.

HIST UST:
Region: STATE
Facility ID: 00000058099
Facility Type: Other
Other Type: CITY YARD
Total Tanks: 0002
Contact Name: JIM HELTON
Telephone: 2092456941
Owner Name: 26TH DISTRICT AGRICULTURAL ASS
Owner Address: P.O. BOX 9
Owner City,St,Zip: PLYMOUTH, CA 95669

Tank Num: 001
Container Num: 1
Year Installed: Not reported

CITY OF PLYMOUTH (Continued) U001613614

Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Tank Construction:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	Not reported
Leak Detection:	None

B6 **26TH AGRIC ASSOC** LUST S102423411
North **18500 SHERWOOD ST** Cortese N/A
1/2-1 **PLYMOUTH, CA 95669**
0.967 mi.
5105 ft. Site 2 of 2 in cluster B

Relative: **Lower**

Actual: **1042 ft.**

LUST:

Region:	STATE
Status:	Case Closed
Case Number:	030007
Local Case #:	Not reported
Chemical:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site, Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Release Date:	1987-10-22 00:00:00
Discover Date:	1987-09-18 00:00:00
Report Date:	1992-08-25 00:00:00
Enforcement Dt:	1965-01-01 00:00:00
Review Date:	1992-08-25 00:00:00
Enter Date:	1987-12-02 00:00:00
Stop Date:	Not reported
Confirm Leak:	Not reported
Case Type:	Soil only
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Undefined
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Corrosion
Leak Source:	Tank
Global Id:	T0600500006
Workplan:	Not reported
Prelim Assess:	1987-10-22 00:00:00
Pollution Char:	Not reported
Remed Plan:	Not reported
Remed Action:	Not reported
Monitoring:	Not reported
MTBE Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Max MTBE GW ppb:	Not reported

26TH AGRIC ASSOC (Continued) S102423411

Max MTBE Soil ppb: Not reported
County: 03
Org Name: Not reported
Reg Board: 5S
Contact Person: Not reported
Responsible Party: CA DEPT OF FOOD & AGRICULTURE
RP Address: 18500 SHERWOOD STREET, PLYMOUTH, CA 95669
Interim: Not reported
Oversight Prgm: LUST
MTBE Class: *
MTBE Conc: 0
MTBE Fuel: 1
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Staff: GTM
Staff Initials: WIL
Lead Agency: Regional Board
Local Agency: 03000
Hydr Basin #: SAN JOAQUIN VALLEY (
Beneficial: Not reported
Priority: 2
Cleanup Fund Id: Not reported
Work Suspended: No
Operator: JIM HELTON
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: W0600500592
Waste Disch Assigned Name: 0300592-001
Summary: BTEX & TPH-D FROM 3 MW'S ND FOR REQUIRED PERIOD.

LUST REG 5:
Region: 5
Status: Case Closed
Case Number: 030007
Case Type: Soil only
Substance: GASOLINE
Staff Initials: GTM
Lead Agency: Regional
Program: LUST
MTBE Code: N/A

Cortese:
Region: CORTESE
Facility Addr2: 18500 SHERWOOD ST

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7 **WALTER ABERCROMBIE** HIST UST U001613626
NNE **9414 MAIN ST** N/A
> 1 **PLYMOUTH, CA 95669**
1.168 mi.
6166 ft.

Relative: Lower
Actual: 1074 ft.

HIST UST:
Region: STATE
Facility ID: 00000053690
Facility Type: Other
Other Type: BUSINESS
Total Tanks: 0003

WALTER ABERCROMBIE (Continued) **U001613626**

Contact Name: WALTER ABERCROMBIE
Telephone: 2092456674
Owner Name: WALTER ABERCROMBIE
Owner Address: 9414 MAIN ST
Owner City,St,Zip: PLYMOUTH, CA 95669

Tank Num: 001
Container Num: 1
Year Installed: 1974
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1974
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: 1974
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: 1/4 inches
Leak Detection: Stock Inventor

C8 **PLYMOUTH DUMP** **ENVIROSTOR** **S102008318**
NW **OLD SACRAMENTO RD / OLD OAKER RD** **N/A**
> 1 **PLYMOUTH, CA 95669**
1.338 mi.
7066 ft. **Site 1 of 2 in cluster C**

Relative:
Lower

Actual:
964 ft.

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Sacramento
Facility ID: 03490003
Site Code: Not reported
Assembly: 10
Senate: 01
Special Program: * Rural County Survey Program
Status: Refer: RWQCB
Status Date: 1988-02-05 00:00:00
Restricted Use: NO
Funding: Not reported

PLYMOUTH DUMP (Continued) S102008318

Latitude: 38.4802777777778
Longitude: -120.866388888889
Alias Name: 03490003
Alias Type: Envirostor ID Number

APN: NONE SPECIFIED
APN Description: Not reported
Comments: Facility Identified: State Water Resources Control Board (SWRCB) Calderon List - Rank 6. Site Screening Done: Pending review/action by SWRCB.

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Discovery
Completed Date: 1988-02-05 00:00:00

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1988-02-05 00:00:00

Confirmed: NONE SPECIFIED
Confirmed Description: Not reported
Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Media Affected: NONE SPECIFIED
Media Affected Desc: Not reported

Management:
Management Required: NONE SPECIFIED
Management Required Desc: Not reported
Potential: NONE SPECIFIED
Potenital Description: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported
PastUse: NONE SPECIFIED

C9 PLYMOUTH CITY-COUNTY DUMP SWF/LF S102359725
NW T7NR10E SEC 3 LFT BEND OF OLD OAKER ROAD N/A
> 1 PLYMOUTH, CA
1.350 mi.
7127 ft. Site 2 of 2 in cluster C

Relative: Lower
Actual: 965 ft.

SWF/LF:
Region: STATE
Facility ID: 03-CR-0007
Lat/Long: 38.486669999999997 / -120.86667
Owner Name: Gansberg, Fred & Chris
Owner Telephone: Not reported
Owner Address: Not reported
Owner Address2: 250 Highway 88
Owner City,St,Zip: NV 89410
Operator: City Of Paso Robles

PLYMOUTH CITY-COUNTY DUMP (Continued) S102359725

Operator Phone:	8052373861
Operator Address:	Not reported
Operator Address2:	1000 Spring Street
Operator City,St,Zip:	Paso Robles, CA 93446
Operator's Status:	Closed
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	0
Activity:	Solid Waste Disposal Site
Regulation Status:	Unpermitted
Landuse Name:	Not reported
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	None
Accepted Waste:	Not reported
Closure Date:	12/31/1974
Closure Type:	Estimated
Disposal Acreage:	0
Swisnumber:	03-CR-0007
Issue & Observations:	Paso Robles, CA 93446
Program Type:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
PLYMOUTH	S106447093	WILLOW SPRING SHALE MINE	HWY 16 .5 MILE E SACRAMENTO RD	95669	CA WDS
PLYMOUTH	S105723029	ACM MACHINING	240 HWY 16 #18	95669	HAZNET
PLYMOUTH	S104578625	ACM MACHINING INC	240 HWY 16	95669	HAZNET
PLYMOUTH	S104571297	GRANITE CONSTRUCTION	HWY 16 / JUNCTION 49	95669	HAZNET
PLYMOUTH	U003941727	SIERRA TRADING POST-PLYMOUTH-#6	HIGHWAY 49	95669	UST
PLYMOUTH	S107138066	TOMRA PACIFIC INC	18170 HWY 49	95669	SWRCY
PLYMOUTH	S106932209	SIERRA TRADING POST #6	HIGHWAY 49 / MAIN	95669	SWEEPS UST
PLYMOUTH	S106926049	FAR HORIZONS 49ER TRAILER VILL	18265 HIGHWAY 49	95669	SWEEPS UST
PLYMOUTH	S103643471	ALLEN RAY JORDON	22600 HWY 49	95669	HAZNET, CDL
PLYMOUTH	S102008331	E-Z SERVE	18725 HIGHWAY 49	95669	ENVIROSTOR
PLYMOUTH	1010782077	PLYMOUTH HARDWARE AND FEED	17705 HIGHWAY 49	95669	FTTS
PLYMOUTH	S103953293	BRIFMAN RANCH	FIDDLETOWN RD .5 MI EAST OF SH	95669	HAZNET
PLYMOUTH	1000250932	PACIFIC BELL	POPLAR STREET	95669	RCRA-SQG, FINDS, HAZNET
PLYMOUTH	S102008313	RINEHART IRON WORKS	SHENANDOAH RD NEAR 10490 SHENA	95669	ENVIROSTOR
PLYMOUTH	S107141981	AMADOR COUNTY USD	10601 SHERWOOD ST	95669	HAZNET
PLYMOUTH	U003805064	SHENANDOAH VILLAGE MART	17699 VILLAGE DR	95669	HAZNET, UST
PLYMOUTH	S108224533	VILLAGE MART INC DBA SHENANDOAH	17699 VILLAGE DR	95669	HAZNET
PLYMOUTH	S106934110	VILLAGE FOOD MART	17699 VILLAGE DRIVE	95669	SWEEPS UST
SUTTER CREEK	A100184613	SUTTER HILL FFS	RTE 1 BOX 15-E	95685	AST
SUTTER CREEK	U003941728	SIERRA TRADING POST-SUTTER HILL-#4	500 HIGHWAY 49	95685	UST
SUTTER CREEK	S108744282	CDF SUTTER HILL FIRE STATION	11600 HIGHWAY 49	95685	HAZNET
SUTTER CREEK	S106932207	SIERRA TRADING POST #4	500 HIGHWAY 49	95685	SWEEPS UST
SUTTER CREEK	S105090879	DON WILKE'S SUBARUPLUS	502 HWY 49 STE C	95685	HAZNET
SUTTER CREEK	S105027018	SUTTER HILL STATION	11600 HWY 49	95685	LUST, Cortese
SUTTER CREEK	1011534140	CENTRAL EUREKA MINE	HWY 49 AT BRYSON DR.	95685	ICIS
SUTTER CREEK	1000926207	CENTRAL EUREKA MINE	HWY 49 AT BRYSON DR.	95685	CERCLIS, FINDS
SUTTER CREEK	1006834340	BOITANO SITE	MILL STREET	95685	FINDS
SUTTER CREEK	S108484721	LINCOLN MINE CENTER	STATE ROUTE 49 NEXT TO SUTTER	95685	VCP, ENVIROSTOR
SUTTER HILL	S106086449	PETROLEUM PUMP & METER	500 HWY 49	95685	HAZNET

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: 08/13/2008
Date Data Arrived at EDR: 08/27/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 09/29/2008
Next Scheduled EDR Contact: 10/27/2008
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: 04/30/2008
Date Data Arrived at EDR: 05/06/2008
Date Made Active in Reports: 06/09/2008
Number of Days to Update: 34

Source: EPA
Telephone: N/A
Last EDR Contact: 08/27/2008
Next Scheduled EDR Contact: 10/27/2008
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: 08/14/2008
Date Data Arrived at EDR: 08/27/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 09/29/2008
Next Scheduled EDR Contact: 10/27/2008
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
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 34

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 10/16/2008
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
Date Data Arrived at EDR: 12/06/2007
Date Made Active in Reports: 02/20/2008
Number of Days to Update: 76

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 09/15/2008
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
Date Data Arrived at EDR: 08/29/2008
Date Made Active in Reports: 09/09/2008
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/02/2008
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.

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: 09/23/2008
Next Scheduled EDR Contact: 11/17/2008
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: 09/23/2008
Next Scheduled EDR Contact: 11/17/2008
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: 09/23/2008
Next Scheduled EDR Contact: 11/17/2008
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: 09/23/2008
Next Scheduled EDR Contact: 11/17/2008
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: 09/23/2008
Next Scheduled EDR Contact: 11/17/2008
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
Date Data Arrived at EDR: 07/29/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 27

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

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/30/2008
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
Date Data Arrived at EDR: 01/23/2008
Date Made Active in Reports: 03/17/2008
Number of Days to Update: 54

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/25/2008
Next Scheduled EDR Contact: 10/20/2008
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: 04/30/2008
Date Data Arrived at EDR: 07/15/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 41

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 10/16/2008
Next Scheduled EDR Contact: 01/12/2009
Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

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

Date of Government Version: 05/14/2008
Date Data Arrived at EDR: 05/28/2008
Date Made Active in Reports: 08/08/2008
Number of Days to Update: 72

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/29/2008
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.

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: 09/23/2008
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: 08/08/2008
Next Scheduled EDR Contact: 11/03/2008
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.

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: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
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.

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.

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: 07/08/2008
Date Data Arrived at EDR: 08/05/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 20

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: 07/31/2008
Next Scheduled EDR Contact: 10/27/2008
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
Date Data Arrived at EDR: 07/09/2008
Date Made Active in Reports: 08/25/2008
Number of Days to Update: 47

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/29/2008
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
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

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
Date Data Arrived at EDR: 03/06/2007
Date Made Active in Reports: 04/13/2007
Number of Days to Update: 38

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/12/2008
Next Scheduled EDR Contact: 12/08/2008
Data Release Frequency: Biennially

SCRD DRYCLEANERS: State Coalition for Redediation 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
Date Data Arrived at EDR: 09/10/2008
Date Made Active in Reports: 09/23/2008
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/25/2008
Next Scheduled EDR Contact: 11/10/2008
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
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 08/25/2008
Next Scheduled EDR Contact: 11/24/2008
Data Release Frequency: No Update Planned

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: 07/28/2008
Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

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

Date of Government Version: 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.

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: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
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: 10/07/2008
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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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.

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: 08/11/2008
Next Scheduled EDR Contact: 11/10/2008
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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/04/2008
Next Scheduled EDR Contact: 11/03/2008
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
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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
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: 866-480-1028
Last EDR Contact: 10/07/2008
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
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/18/2008
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
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 10/06/2008
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
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 08/11/2008
Next Scheduled EDR Contact: 11/10/2008
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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

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: 10/07/2008
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: 07/28/2008
Next Scheduled EDR Contact: 10/27/2008
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: 08/04/2008
Next Scheduled EDR Contact: 11/03/2008
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.

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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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.

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: 07/25/2008
Next Scheduled EDR Contact: 10/20/2008
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: 10/20/2008
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: 08/08/2008
Next Scheduled EDR Contact: 11/03/2008
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.

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

Date of Government Version: 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: 08/08/2008
Next Scheduled EDR Contact: 11/03/2008
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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

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

Date of Government Version: 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 4
Telephone: 404-562-8677
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 03/20/2008
Number of Days to Update: 6

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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
Date Data Arrived at EDR: 10/10/2008
Date Made Active in Reports: 10/16/2008
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Quarterly

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

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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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
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: 214-665-6597
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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
Date Data Arrived at EDR: 03/14/2008
Date Made Active in Reports: 03/20/2008
Number of Days to Update: 6

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Varies

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

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 4
Telephone: 404-562-9424
Last EDR Contact: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Semi-Annually

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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
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
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

COUNTY RECORDS

ALAMEDA COUNTY:

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

Date of Government Version: 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: 08/20/2008
Next Scheduled EDR Contact: 10/20/2008
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: 08/20/2008
Next Scheduled EDR Contact: 10/20/2008
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: 08/04/2008
Next Scheduled EDR Contact: 11/03/2008
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.

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: 08/11/2008
Next Scheduled EDR Contact: 11/10/2008
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: 08/13/2008
Next Scheduled EDR Contact: 11/10/2008
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: 08/11/2008
Next Scheduled EDR Contact: 11/10/2008
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: 09/10/2008
Next Scheduled EDR Contact: 11/10/2008
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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
Data Release Frequency: Annually

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: 09/10/2008
Next Scheduled EDR Contact: 11/10/2008
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: 07/28/2008
Next Scheduled EDR Contact: 10/27/2008
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

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/02/2008
Date Data Arrived at EDR: 09/25/2008
Date Made Active in Reports: 10/01/2008
Number of Days to Update: 6

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

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 07/23/2007
Date Data Arrived at EDR: 07/23/2007
Date Made Active in Reports: 08/09/2007
Number of Days to Update: 17

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 09/15/2008
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
Date Data Arrived at EDR: 07/18/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 13

Source: Department of Public Health
Telephone: 951-358-5055
Last EDR Contact: 10/14/2008
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
Date Data Arrived at EDR: 07/29/2008
Date Made Active in Reports: 08/29/2008
Number of Days to Update: 31

Source: Health Services Agency
Telephone: 951-358-5055
Last EDR Contact: 10/14/2008
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
Date Data Arrived at EDR: 08/08/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 26

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/28/2008
Next Scheduled EDR Contact: 10/27/2008
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
Date Data Arrived at EDR: 08/08/2008
Date Made Active in Reports: 09/03/2008
Number of Days to Update: 26

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/28/2008
Next Scheduled EDR Contact: 10/27/2008
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 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: 10/02/2008
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: 09/02/2008
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 Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/15/2008
Next Scheduled EDR Contact: 12/01/2008
Data Release Frequency: Quarterly

Underground Storage Tank Information
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: 10/01/2008
Number of Days to Update: 12

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/15/2008
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
Date Data Arrived at EDR: 08/27/2008
Date Made Active in Reports: 09/15/2008
Number of Days to Update: 19

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/14/2008
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
Date Data Arrived at EDR: 06/18/2008
Date Made Active in Reports: 06/20/2008
Number of Days to Update: 2

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/06/2008
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
Date Data Arrived at EDR: 10/07/2008
Date Made Active in Reports: 10/13/2008
Number of Days to Update: 6

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/06/2008
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
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/22/2008
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
Date Data Arrived at EDR: 09/25/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 4

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/22/2008
Next Scheduled EDR Contact: 12/22/2008
Data Release Frequency: Varies

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 09/02/2008
Date Data Arrived at EDR: 09/04/2008
Date Made Active in Reports: 09/18/2008
Number of Days to Update: 14

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/02/2008
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
Date Data Arrived at EDR: 10/06/2008
Date Made Active in Reports: 10/13/2008
Number of Days to Update: 7

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/22/2008
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
Date Data Arrived at EDR: 07/03/2008
Date Made Active in Reports: 07/25/2008
Number of Days to Update: 22

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/22/2008
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
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 07/21/2008
Next Scheduled EDR Contact: 10/20/2008
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 05/04/2007
Date Data Arrived at EDR: 05/04/2007
Date Made Active in Reports: 05/24/2007
Number of Days to Update: 20

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/29/2008
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.

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: 08/18/2008
Next Scheduled EDR Contact: 11/17/2008
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: 10/14/2008
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

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: 08/08/2008
Next Scheduled EDR Contact: 11/03/2008
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: 12/31/2007
Date Data Arrived at EDR: 06/03/2008
Date Made Active in Reports: 08/07/2008
Number of Days to Update: 65

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.

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 elemenlary 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

IONE CASINO SITE
HIGHWAY 49
PLYMOUTH, CA 95685

TARGET PROPERTY COORDINATES

Latitude (North):	38.46463 - 38° 27' 52.7"
Longitude (West):	120.85175 - 120° 51' 6.3"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	687429.2
UTM Y (Meters):	4259348.0
Elevation:	1087 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38120-D7 AMADOR CITY, CA
Most Recent Revision:	1962

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).

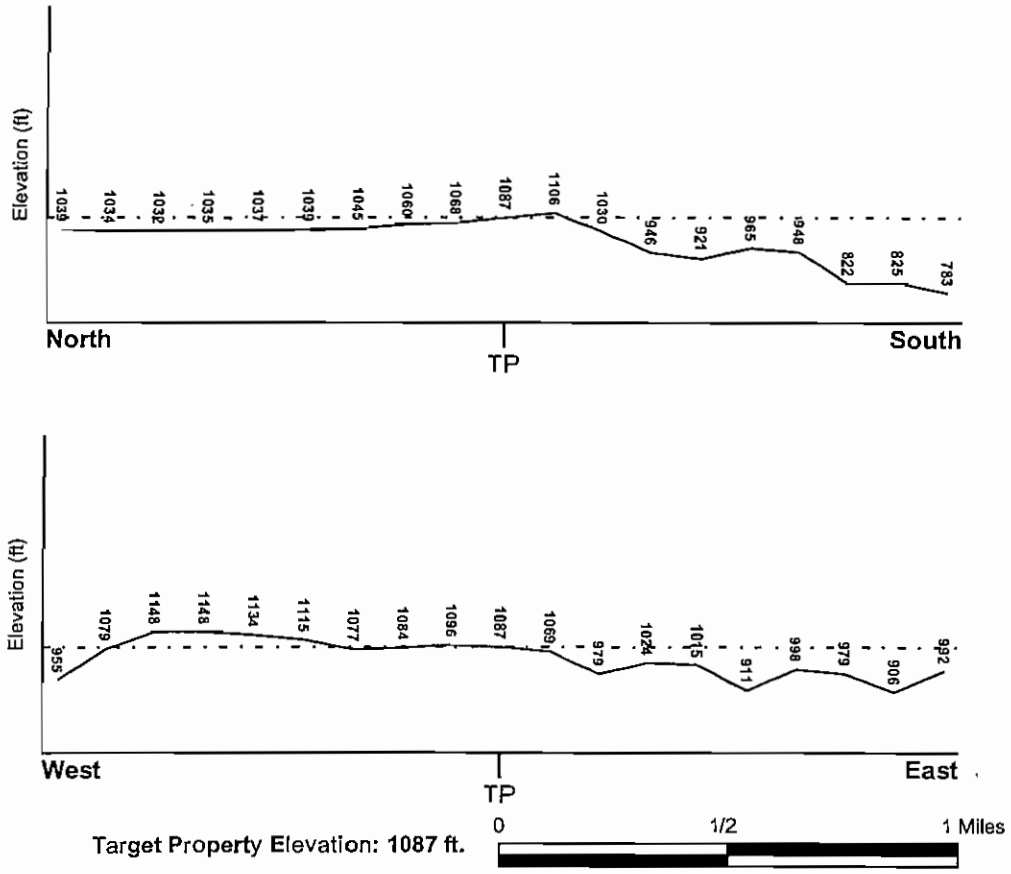
TOPOGRAPHIC INFORMATION

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 ESE

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

Target Property County	FEMA Flood Electronic Data
AMADOR, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	0600150017C
Additional Panels in search area:	0600150018C 0604550001B 0604550002B 0600150028C 0600150027C

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
AMADOR CITY	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

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

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

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

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
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

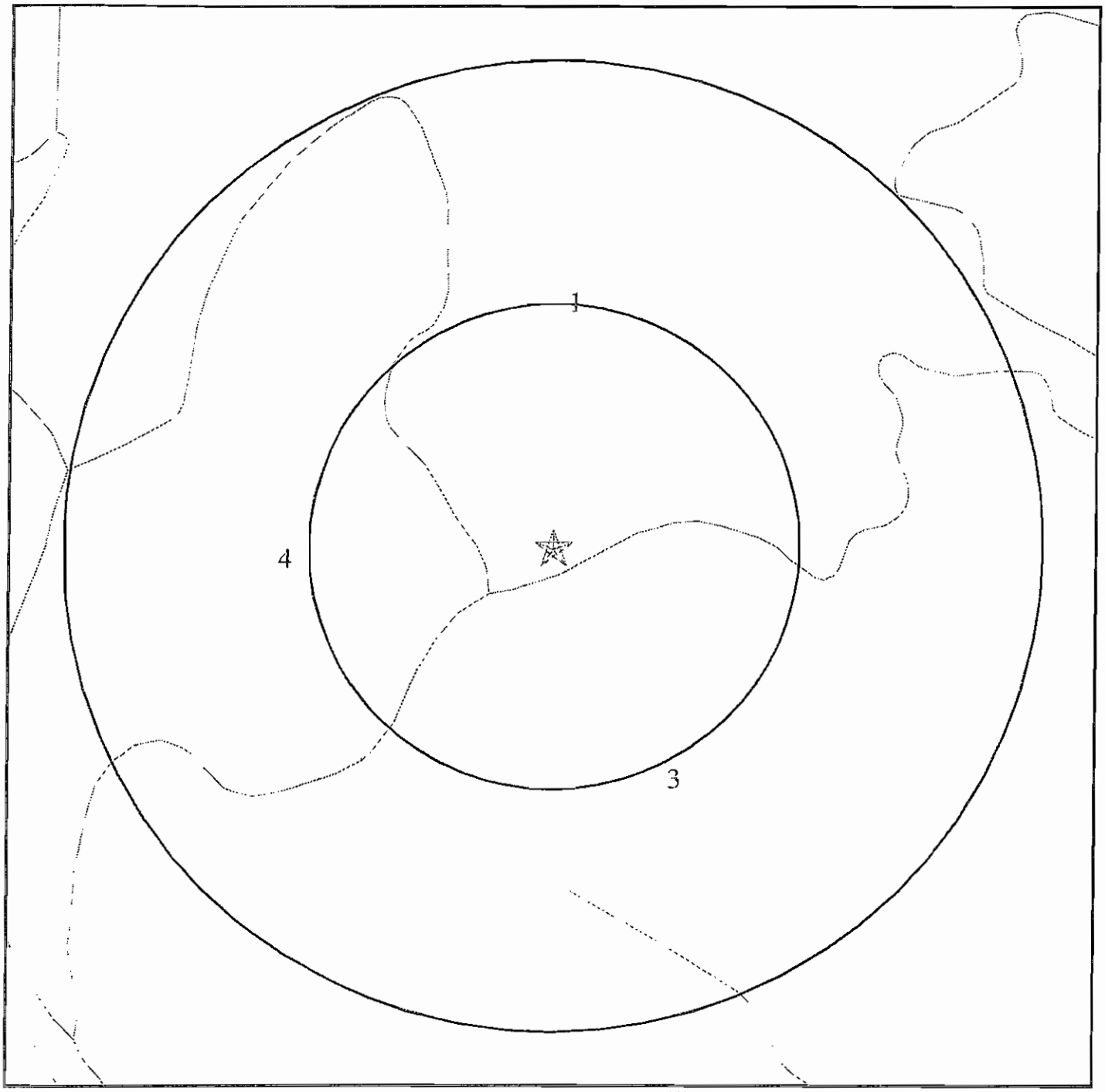
Era:	Mesozoic
System:	Lower Jurassic and Upper Triassic
Series:	Lower Mesozoic
Code:	lMze *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

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 - 2343350.2s



★ Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Ione Casino Site	CLIENT:	Analytical Environmental Serv.
ADDRESS:	Highway 49 Plymouth CA 95685	CONTACT:	Pete Connelly
LAT/LONG:	38.4646 / 120.8517	INQUIRY #:	2343350.2s
		DATE:	October 20, 2008 8:47 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: Auburn

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 15 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	9 inches	14 inches		Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	14 inches	18 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Auburn

Soil Surface Texture: silt loam

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 61 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	11 inches	24 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	24 inches	29 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
4	29 inches	33 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

Soil Map ID: 3

Soil Component Name: Exchequer

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 15 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 4 Min: 0.07	Max: Min:
2	5 inches	9 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 4 Min: 0.07	Max: Min:

Soil Map ID: 4

Soil Component Name: Exchequer

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 15 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 4 Min: 0.07	Max: Min:
2	5 inches	9 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 4 Min: 0.07	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

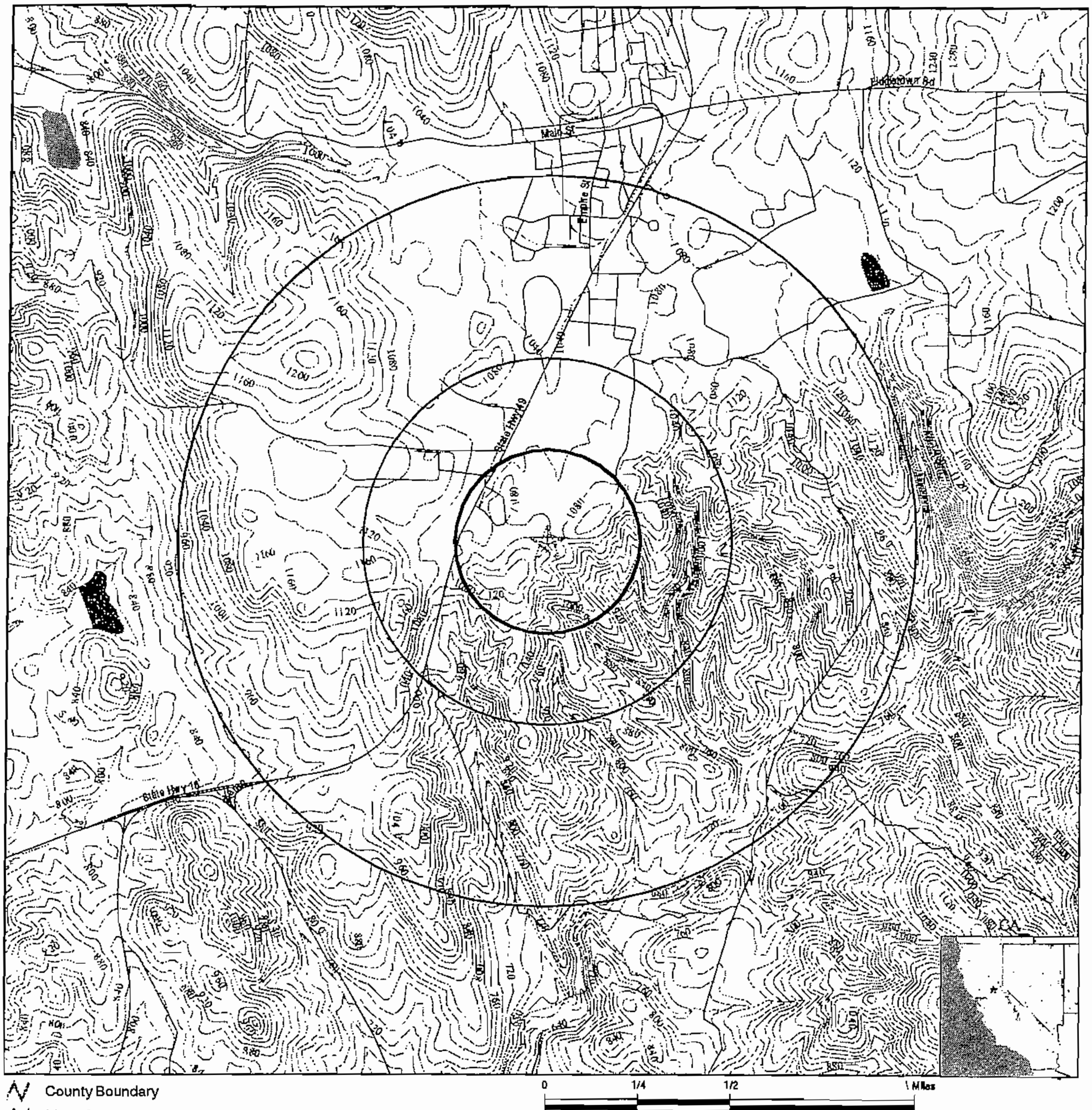
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 2343350.2s



- 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
- (GI) Indeterminate Groundwater Flow at Location
- (GV) Groundwater Flow Varies at Location
- (HD) Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Ione Casino Site ADDRESS: Highway 49 Plymouth CA 95685 LAT/LONG: 38.4646 / 120.8517	CLIENT: Analytical Environmental Serv. CONTACT: Pete Connelly INQUIRY #: 2343350.2s DATE: October 20, 2008 8:47 am

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
95685	5	1	20.00

Federal EPA Radon Zone for AMADOR 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: 95685

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.350 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.400 pCi/L	100%	0%	0%

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

APPENDIX D

EDR ENVIRONMENTAL LIEN SEARCH

The EDR Environmental LienSearch™ Report

Hwy 49
Plymouth, CA 95669
NREIS# D08-053057

Project Number: 2343350.7S

October 27, 2008

EDR® Environmental Data Resources Inc

NATIONAL REAL ESTATE INFORMATION SERVICES

The Standard in Environmental Risk Information

440 Wheelers Farm Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report includes results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers follows established procedures to:

- search for parcel information, legal description, and ownership based on client supplied address information;
- research indexes and title repositories;
- obtain a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument (title, parties involved, and description); and
- provide a copy of the deed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

LONE CASINO SITE
HWY 49
PLYMOUTH, CA 95669

RESEARCH SOURCE

Sources: RECORDER OF DEEDS, AMADOR COUNTY, CA

DEED INFORMATION

Type of Deed: WD ☒ QCD ☐ Other ☐ DEED

Title is vested in: IKON GROUP, LLC

Title received from: RONALD G. MATULICH AND LINDA MATULICH
(MEMORANDUM OF PURCHASE AGREEMENT)

Deed Dated: 11-22-2004
Deed Recorded: 12-07-2004
Instrument: 2004-0017015

LEGAL DESCRIPTION

SEE ATTACHED EXHIBIT "A"

Assessor's Parcel Number: 008-110-009-000

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If yes:

1st Party:

2nd Party:

Dated:
Recorded:
Book:
Page:
Comments:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AUL's: Found ☐ Not Found ☒

EXHIBIT A

REAL PROPERTY IN THE UNINCORPORATED AREA OF THE COUNTY OF AMADOR, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

ALL THOSE PORTIONS OF SECTIONS 14 AND 15, BOTH TOWNSHIP 7 NORTH, RANGE 10 EAST, MOUNT DIABLO MERIDIAN, SHOWN ON THAT CERTAIN RECORD OF SURVEY OF THE AREA OCCUPIED BY EVERETT AND GLENN FANCHER, FILED JUNE 15, 1982 IN BOOK 35 OF MAPS AND PLATS, AT PAGES 94 AND 95, IN THE OFFICE OF THE COUNTY RECORDER, AMADOR COUNTY, CALIFORNIA.

SAID LAND HERETOFORE BEING DESCRIBED AS:

(A) ALL THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 7 NORTH, RANGE 10 EAST, MOUNT DIABLO MERIDIAN, THAT LIES EAST OF THE COUNTY ROAD RUNNING FROM PLYMOUTH TO DRYTOWN VIA THE CENTRAL HOUSE, AS SAID ROAD EXISTED APRIL 11, 1896, BEING THE DATE OF THE DEED FROM M. BUTLER, ET UX, TO THOMAS BOYSON, RECORDED APRIL 18, 1896 IN BOOK 13 OF DEEDS, PAGE 120, RECORDS OF AMADOR COUNTY.

EXCEPT ALL THAT PORTION THEREOF DESCRIBED IN DEED FROM EVERETT FANCHER, ET AL, TO THE STATE OF CALIFORNIA RECORDED AUGUST 11, 1969 IN BOOK 186, PAGE 202, OFFICIAL RECORDS OF AMADOR COUNTY.

EXCEPT AND TOGETHER WITH ALL THAT REAL PROPERTY MORE PARTICULARLY REFERRED TO IN THAT CERTAIN BOUNDARY LINE AGREEMENT BY AND BETWEEN NORMAN V. WHEELER, ET UX, AND EVERETT FANCHER, ET AL RECORDED JANUARY 4, 1989 IN BOOK 560, PAGE 28, OFFICIAL RECORDS OF AMADOR COUNTY.

(B) LOTS 8 AND 10 AND THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OP SECTION 14, TOWNSHIP 7 NORTH, RANGE 10 EAST, MOUNT DIABLO MERIDIAN.

EXCEPT AND TOGETHER WITH ALL THAT REAL PROPERTY MORE PARTICULARLY REFERRED TO IN THAT CERTAIN BOUNDARY LINE AGREEMENT BY AND BETWEEN RONALD G. MATULICH, ET UX, AND EVELYN JEAN SMITH, ET AL, RECORDED JANUARY 27, 1999, INSTRUMENT NO. 1999-000877, OFFICIAL RECORDS OF AMADOR

COUNTY.

(C) THE PIONEER QUARTZ MINE, BEING LOT 87 OF SECTION 14, TOWNSHIP 7 NORTH, RANGE 10 EAST, MOUNT DIABLO MERIDIAN.

(D) GOVERNMENT LOT 93 IN SECTION 14, TOWNSHIP 7 NORTH, RANGE 10 EAST, MOUNT DIABLO MERIDIAN, BEING ALSO KNOWN AS THE FORTY-NINE GOLD QUARTZ MINE.

EXCEPT AND TOGETHER WITH ALL THAT REAL PROPERTY MORE PARTICULARLY REFERRED TO IN THAT CERTAIN BOUNDARY LINE AGREEMENT BY AND BETWEEN RONALD G. MATULICH, ET UX, AND EVELYN JEAN SMITH, ET AL, RECORDED JANUARY 27, 1999, INSTRUMENT NO. 1999-000877, OFFICIAL RECORDS OF AMADOR COUNTY.

Amador County Recorder
Sheldon D. Johnson
DOC- 2004-0017015-00
Acct 2-First American Title Co
Tuesday, DEC 07, 2004 09:58:00
Ttl Pd $18.00 Nbr-0000095495
SDJ/R1/1-5

Recording requested by,
and when recorded, mail to:

IKON GROUP, LLC
c/o Patrick A. Sheehan, Attorney
179 Lameuse St.
Biloxi, Mississippi 39530

S7179658

MEMORANDUM OF PURCHASE AGREEMENT

This Memorandum of Purchase Agreement ("Memorandum"), is executed in order to memorialize of record that certain Purchase Agreement and Deposit Receipt ("Purchase Agreement"), dated March 12, 2003, between **RONALD G. MATULICH** and **LINDA MATULICH** ("Seller") and **IKON GROUP, LLC**, and/or Assigns ("Buyer"), wherein Seller contracted to sell to Buyer certain real property more particularly described in attached Exhibit A, incorporated in this Memorandum ("Real Property").

Section 1
Amendment

As of the date of this Memorandum, the Purchase Agreement has been amended, by instrument dated December 16, 2003 ("Amendment"), and further amended by instrument dated September 28, 2004, which are an integral parts of the Purchase Agreement and the underlying agreement of the parties.

Section 2
Term

The term of the Purchase Agreement, as amended, began on March 12, 2003, and continues until September 10, 2003 ("Term"), unless terminated sooner in accordance with the Purchase Agreement and Amendment.

Section 3
Extensions

Extensions are available to the Buyer as specified in the Purchase Agreement, as amended; and these extensions may extend the term of the Purchase Agreement period to September 4, 2006.

Section 4
Termination

The Purchase Agreement shall automatically terminate and shall have no further force upon the first of the following events to occur:

(a) The purchase of the Property by Buyer or his assign;
(b) The end of the term of the Purchase Agreement, as amended, and any extensions thereof.

Section 5
Price and Terms

The parties have executed and recorded this instrument to give notice of the Purchase Agreement and the respective rights and obligations of Buyer and Seller. The price and other terms are set out in the unrecorded Purchase Agreement and Amendment, which are incorporated by reference in its entirety in this Memorandum. In the event of any inconsistency between this Memorandum and the Purchase Agreement, the Purchase Agreement and Amendment shall control.

Section 6
Assignment

The Purchase Agreement may be assigned by the Buyer.

Section 7
Successors and Assigns

This Memorandum and the Purchase Agreement shall bind and inure to the benefit of the parties and their respective heirs, successors and assigns.

Section 8
Governing Law

This Memorandum and the Purchase Agreement are governed by California law.

The parties have executed this Memorandum as of the date first written above.

SELLER:

Ronald G. Matulich

Linda Matulich

BUYER:

IKON GROUP, LLC

BY: Willard E. Smith, Project Manager

ACKNOWLEDGMENT

STATE OF CALIFORNIA)
) ss
COUNTY OF AMADOR)

On 11-22, 2004, before me, a Notary Public for the State of California, duly commissioned and sworn, personally appeared **RONALD G. MATULICH**, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

My Commission Expires: Oct 23, 2008

EVELYN RYAN
COMM. #1521330
NOTARY PUBLIC - CALIFORNIA
AMADOR COUNTY
My Comm. Expires Oct. 23, 2008

X:\I N D I A M\IONE\Land\MEMOS OF OPTION (RECORDING)\MATULICH MEMO of Pur Agr-11-11-04.doc

ACKNOWLEDGMENT

STATE OF CALIFORNIA)
) ss
COUNTY OF AMADOR)

On 11-22, 2004, before me, a Notary Public for the State of California, duly commissioned and sworn, personally appeared **LINDA MATULICH**, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

My Commission Expires: Oct 23 2008

Notary Public

EVELYN RYAN
COMM. #1521330
NOTARY PUBLIC - CALIFORNIA
AMADOR COUNTY
My Comm. Expires Oct. 23, 2008

ACKNOWLEDGMENT

STATE OF MISSISSIPPI)
) ss
COUNTY OF HARRISON)

On 12-1, 2004, before me, a Notary Public for the State of Mississippi, duly commissioned and sworn, personally came and appeared before me **WILLARD E. SMITH, identified as a Managing Member of IKON GROUP, LLC**, who acknowledged that he executed the within instrument on the day and date set forth therein, for and on behalf of **IKON GROUP, LLC**, after being duly authorized so to do.

My Commission Expires:

Notary Public

DEANNA TAYLOR, HARRISON COUNTY, MS
NOTARY PUBLIC
My Commission Expires July 25, 2005

LEGAL DESCRIPTION

Real property in the unincorporated area of the County of Amador, State of California, described as follows:

ALL THOSE PORTIONS OF SECTIONS 14 AND 15, BOTH TOWNSHIP 7 NORTH, RANGE 10 EAST, MOUNT DIABLO MERIDIAN, SHOWN ON THAT CERTAIN RECORD OF SURVEY OF THE AREA OCCUPIED BY EVERETT AND GLENN FANCHER, FILED JUNE 15, 1982 IN BOOK 35 OF MAPS AND PLATS, AT PAGES 94 AND 95, IN THE OFFICE OF THE COUNTY RECORDER, AMADOR COUNTY, CALIFORNIA.

SAID LAND HERETOFORE BEING DESCRIBED AS:

(A) ALL THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 7 NORTH, RANGE 10 EAST, MOUNT DIABLO MERIDIAN, THAT LIES EAST OF THE COUNTY ROAD RUNNING FROM PLYMOUTH TO DRYTOWN VIA THE CENTRAL HOUSE, AS SAID ROAD EXISTED APRIL 11, 1896, BEING THE DATE OF THE DEED FROM M. BUTLER, ET UX, TO THOMAS BOYSON, RECORDED APRIL 18, 1896 IN BOOK 13 OF DEEDS, PAGE 120, RECORDS OF AMADOR COUNTY.

EXCEPT ALL THAT PORTION THEREOF DESCRIBED IN DEED FROM EVERETT FANCHER, ET AL, TO THE STATE OF CALIFORNIA RECORDED AUGUST 11, 1969 IN BOOK 186, PAGE 202, OFFICIAL RECORDS OF AMADOR COUNTY.

EXCEPT AND TOGETHER WITH ALL THAT REAL PROPERTY MORE PARTICULARLY REFERRED TO IN THAT CERTAIN BOUNDARY LINE AGREEMENT BY AND BETWEEN NORMAN V. WHEELER, ET UX, AND EVERETT FANCHER, ET AL, RECORDED JANUARY 4, 1989 IN BOOK 560, PAGE 28, OFFICIAL RECORDS OF AMADOR COUNTY.

(B) LOTS 8 AND 10 AND THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 14, TOWNSHIP 7 NORTH, RANGE 10 EAST, MOUNT DIABLO MERIDIAN.

EXCEPT AND TOGETHER WITH ALL THAT REAL PROPERTY MORE PARTICULARLY REFERRED TO IN THAT CERTAIN BOUNDARY LINE AGREEMENT BY AND BETWEEN RONALD G. MATULICH, ET UX, AND EVELYN JEAN SMITH, ET AL, RECORDED JANUARY 27, 1999, INSTRUMENT NO. 1999-000877, OFFICIAL RECORDS OF AMADOR COUNTY.

(C) THE PIONEER QUARTZ MINE, BEING LOT 87 OF SECTION 14, TOWNSHIP 7 NORTH, RANGE 10 EAST, MOUNT DIABLO MERIDIAN.

(D) GOVERNMENT LOT 93 IN SECTION 14, TOWNSHIP 7 NORTH, RANGE 10 EAST, MOUNT DIABLO MERIDIAN, BEING ALSO KNOWN AS THE "FORTY-NINE GOLD QUARTZ MINE".

EXCEPT AND TOGETHER WITH ALL THAT REAL PROPERTY MORE PARTICULARLY REFERRED TO IN THAT CERTAIN BOUNDARY LINE AGREEMENT BY AND BETWEEN RONALD G. MATULICH, ET UX, AND EVELYN JEAN SMITH, ET AL, RECORDED JANUARY 27, 1999, INSTRUMENT NO. 1999-000877, OFFICIAL RECORDS OF AMADOR COUNTY.

APN: 008-110-009

EXHIBIT A

"END OF DOCUMENT"

APPENDIX E

PROPERTY OWNER AND USER QUESTIONNAIRES

Analytical Environmental Services

November 4, 2008

RE: Phase I Environmental Site Assessment for

RE: Phase I Environmental Site Assessment for APNs 010-20-06 (1.65 acres), 010-20-07 (1.19 acres), 010-20-08 (0.53 acres), 010-20-09 (0.81 acres), 010-20-10 (1.56 acres), 010-20-11 (1.22 acres), 08-011-026 (60 acres), 08-110-022 (7.86 acres), and 08-110-009 (137.78 acres).

Please complete the questionnaire below with regard to the indicated property. You are being asked to provide this information and insight to assist in the preparation of an environmental site assessment for this property. Please provide as much information as you can to assist in this effort and feel free to attach extra sheets/reports if the space provided is insufficient.

Please fax/sent the completed form to:

Analytical Environmental Services
Attn: Pete Connelly
1801 7th Street, Suite 100
Sacramento, CA 95814

Telephone (916) 447-3479
Fax (916) 447-1665

Thank you for your help and cooperation.

ENVIRONMENTAL QUESTIONAIRE

Property Address: See attached parcel numbers

Assessors Parcel Number

Question	Answer	Responses to "Yes" Questions
1. Is the property or any adjoining property currently used for industrial purposes?	Property: (NO) UNK YES Adjoining: (NO) UNK YES	
2. To the best of your knowledge, has the property or any adjoining property been used for industrial purposes in the past?	Property: (NO) UNK YES Adjoining: (NO) UNK YES	
3. Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Property: (NO) UNK YES Adjoining: NO UNK (YES)	Adjoining gas station
4. To the best of your knowledge, has the property or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Property: (NO) UNK YES Adjoining: (NO) UNK YES	
5. Has fill dirt been brought onto the property that originated from a contaminated site or that is of an unknown origin?	(NO) UNK YES	

ENVIRONMENTAL QUESTIONAIRE

6. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than five gallons (19 liters) in the aggregate, stored on or used at the property or at the facility?	New?: (NO) UNK YES Past?: (NO) UNK YES	
7. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55 gallon [208 liters]) or sacks of chemicals located on the property or at the facility?	New?: (NO) UNK YES Past?: (NO) UNK YES	
8. Are there currently, or to the best of your knowledge have there been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?	New?: (NO) UNK YES Past?: (NO) UNK YES	
9. Is there currently, or to the best of your knowledge has there been previously, any areas of stained soil on the property?	New?: (NO) UNK YES Past?: (NO) UNK YES	
10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the property?	New?: (NO) UNK YES Past?: (NO) UNK YES	

ENVIRONMENTAL QUESTIONAIRE

11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?	New?: (NO) UNK YES Past?: (NO) UNK YES	
12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?	New?: (NO) UNK YES Past?: (NO) UNK YES	
13. If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environment/health agency?	NO (UNK) YES	
14. Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?	(NO) UNK YES	

ENVIRONMENTAL QUESTIONAIRE

15. Has the owner or occupant of the property been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the property or any facility located on the property?	(NO) UNK YES	
16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?	NO UNK YES	
17. Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?	(NO) UNK YES	
18. Does the property discharge waste water on or adjacent to the property other than storm water into a sanitary sewer system?	(NO) UNK YES	

ENVIRONMENTAL QUESTIONAIRE

19. To the best of your knowledge, have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried, and/or burned on the property?	(NO) UNK YES	
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	(NO) UNK YES	

21. How do you currently use the property and how have you used the property in the past (please be specific).

Vacant, Cattle, Residential

22. What is your understanding of how the property was used before your ownership/occupancy?

ENVIRONMENTAL QUESTIONAIRE

I hereby certify that to the best of my knowledge all of the information provided in this environmental questionaire is true and correct.

Signature: [signature]

Print Name/Address: Completed though telephone interview with the Johnny "Gil" Jameson Tribal Vice Chair Iowa Band of Miwsk Indians.

Phone: (918) 447-3479

Date complete: 11/4/2008

Relation to property: owner _____ operator _____ manager _____ tenant _____
consultant for tribe X

Analytical Environmental Services

October 24, 2008

RE: Phase I Environmental Site Assessment update for the Plymouth Casino site.

You have been identified as the representative and/or the legal owner of the legal parcels listed in the table below. Please complete the attached questionnaire below with regard to the indicated property. You are being asked to provide this information and insight to assist in the preparation of an environmental site assessment for this property. Please provide as much information as you can to assist in this effort and feel free to attach extra sheets/reports if the space provided is insufficient.

Ione Band of Miwok Indians Fee-to-Trust Subject Property Parcels

Parcel	APN number	Acreage	Location
1	08-110-009	137.78	Unincorporated Amador County
2	08-110-022	7.86	Unincorporated Amador County
3	08-10-026	60	Unincorporated Amador County
4	10-200-003	0.64	City of Plymouth
5	10-200-004	2.68	City of Plymouth
6	10-200-006	1.65	City of Plymouth
7	10-200-007	1.19	City of Plymouth
8	10-200-008	0.53	City of Plymouth
9	10-200-009	0.81	City of Plymouth
10	10-200-010	1.56	City of Plymouth
11	10-200-110	1.22	City of Plymouth
12	08-110-021	12.12	Unincorporated Amador County

Please fax/sent the completed form to:

Analytical Environmental Services
Attn: Pete Connelly
1801 7th Street, Suite 100
Sacramento, CA 95814

Telephone (916) 447-3479
Fax (916) 447-1665

Thank you for your help and cooperation.

ENVIRONMENTAL QUESTIONNAIRE

Property Address: _____

Assessors Parcel Number_____

Question	Answer	Responses to "Yes" Questions
1. Is the property or any adjoining property currently used for industrial purposes?	Property: (NO) UNK YES Adjoining: NO UNK YES	
2. To the best of your knowledge, has the property or any adjoining property been used for industrial purposes in the past?	Property: (NO) UNK YES Adjoining: NO UNK YES	
3. Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Property: (NO) UNK YES Adjoining: NO UNK (YES)	
4. To the best of your knowledge, has the property or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Property: (NO) UNK YES Adjoining: NO UNK (YES)	
5. Has fill dirt been brought onto the property that originated from a contaminated site or that is of an unknown origin?	(NO) UNK YES	
6. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than five gallons (19 liters) in the aggregate, stored on or used at the property or at the facility?	Now?: (NO) UNK YES Past? (NO) UNK YES	

ENVIRONMENTAL QUESTIONNAIRE

7. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55 gallon [208 liters]) or sacks of chemicals located on the property or at the facility?	New?: NO UNK YES Past?: NO UNK YES	
8. Are there currently, or to the best of your knowledge have there been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?	New?: NO UNK YES Past?: NO UNK YES	
9. Is there currently, or to the best of your knowledge has there been previously, any areas of stained soil on the property?	New?: NO UNK YES Past?: NO UNK YES	
10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the property?	New?: NO UNK YES Past?: NO UNK YES	
11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?	New?: NO UNK YES Past?: NO UNK YES	
12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?	New?: NO UNK YES Past?: NO UNK YES	
13. If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environment/health agency?	NO UNK YES	

ENVIRONMENTAL QUESTIONNAIRE

14. Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?	(NO) UNK YES	
15. Has the owner or occupant of the property been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the property or any facility located on the property?	(NO) UNK YES	
16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?	(NO) UNK YES	
17. Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?	(NO) UNK YES	
18. Does the property discharge waste water on or adjacent to the property other than storm water into a sanitary sewer system?	(NO) UNK YES	
19. To the best of your knowledge, have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried, and/or burned on the property?	(NO) UNK YES	

ENVIRONMENTAL QUESTIONNAIRE

20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	NO UNK YES	

21. How do you currently use the property and how have you used the property in the past (please be specific).

Currently, the land is primarily left in its natural state. Land has not been used by us. vacant pasture

22. What is your understanding of how the property was used before your ownership/occupancy?

For ~~Agricultural~~ cattle grazing use, Currently a shed is located on the property.

ENVIRONMENTAL QUESTIONNAIRE

I hereby certify that to the best of my knowledge all of the information provided in this environmental questionnaire is true and correct.

Signature: Pamela Baumgartner

Print Name/Address: Pamela Baumgartner 14 West main Ione. Ca 95640

Phone: 209-274 6753

Date complete: 10/24/08

Relation to property: owner ____ operator ____ manager X tenant ____

received
10/24/08

Analytical Environmental Services

CLIENT QUESTIONNAIRE

Per ASTM Standard Practice E 1527-05, Section 6, User Responsibilities, the User of an ESA has specific obligations for performing tasks during the ESA that will help identify the possibility of *recognized environmental conditions* in connection with the Site. Failure by the User to fully comply with the requirements may result in a *data gap* being identified in the report and may impact the ability to use the report to help qualify for *Landowner Liability Protections* (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). If this questionnaire is not returned to Analytical Environmental Services (AES) prior to issuance of the draft Phase I report, then AES assumes that the User does not have any information or actual knowledge pursuant to ASTM Standard Practice E 1527-05, Section 6, User Responsibilities. AES makes no representations or warranties regarding a User's qualification for protection under any federal, state or local laws, rules or regulations.

Please complete the following and return immediately via email or fax to the attention of:

Pete Connelly
E-mail: pconnelly@analyticalcorp.com
Fax: (916) 447-1665

If other parties are intending to be the Users of the ESA report, then please forward a copy of this questionnaire for them to complete and return to AES.

Please provide the following information (if available) per the requirements of ASTM E 1527-05.

1. **Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25)**

   Are you aware of any environmental cleanup liens against the site that are filed or recorded under federal, tribal, state or local law? Yes ☐ or No ☒

   If yes, please provide a description of the lien(s).

   _____

   _____

   _____

2. **Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26)**

   Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? Yes ☐ or No ☒ If yes, please provide.

   _____

   _____

3. **Specialized knowledge or experience of the person seeking to qualify for the Landowner Liability Protections (40 CFR 312.28)**

As the user of this ESA do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Yes ☐ or No ☒ If yes, please explain.

4. **Relationship of the purchase price to the fair market value of the site if it were not contaminated (40 CFR 312.29)**

a. Does the purchase price being paid for this site reasonably reflect the fair market value of the site? Yes ☐ or No ☒

b. If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the site?

Yes ☐ or No ☒ If yes, please explain.

5. Commonly known or reasonably ascertainable information about the site (40 CFR 312.30)

Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

a. Do you know the past uses of the site? Yes ☒ or No ☐
If yes, ~~please~~ state.
f.c. Agriculture hotel
Cattle grazing

b. Do you know of specific chemicals that are present or once were present at the site?
Yes ☐ or No ☒ If yes, please state.

c. Do you know of spills or other chemical releases that have taken place at the site?
Yes ☐ or No ☒ If yes, please state.

6. Do you know of any environmental cleanups that have taken place at the site?
Yes ☐ or No ☒ If yes, please state.

7. The degree of obviousness of the presence or likely presence of contamination at the site, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)

As the user of this ESA, based on your knowledge and experience related to the site are there any obvious indicators that point to the presence or likely presence of contamination at the site?

Yes ☐ or No ☒ If yes, please explain.

This questionnaire was completed by:

Name Pamela Baumgartner and Terry Ramos

Title Tribal Administrator and project developer

Signature Pamela Baumgartner and Terry Ramos

Company of User Ione Band of Miwok Indians

Address of User 14 W Main P.O. Box 1190

Ione, CA 95640

Date 11/23/08

PROPERTY OWNER QUESTIONAIRE FOR APNS 10-200-003 AND 100-200-004 (0.64 AND 2.68 ACRES)

PROPERTY OWNER: USHA PATEL

Analytical Environmental Services

October 23, 2008

RE: Phase I Environmental Site Assessment for the Ione Casino Site.

Dear Ms Patel,

You have been identified as the representative and/or the legal owner of the property located at 17674 Village Drive, Plymouth CA. **APNs 010-200-003 (0.64 acres), 010-200-004 (2.68 acres).**

Please complete the questionnaire below with regard to the indicated property. You are being asked to provide this information and insight to assist in the preparation of an environmental site assessment for this property and the . Please provide as much information as you can to assist in this effort and feel free to attach extra sheets/reports if the space provided is insufficient.

Please fax/sent the completed form to:

Analytical Environmental Services
Attn: Pete Connelly
1801 7th Street, Suite 100
Sacramento, CA 95814

Telephone (916) 447-3479
Fax (916) 447-1665

Thank you for your help and cooperation.

ENVIRONMENTAL QUESTIONAIRE

Property Address: 17674 Village Drive

Assessors Parcel Number _____

Question	Answer	Responses to "Yes" Questions
1. Is the property or any adjoining property currently used for industrial purposes?	Property: (NO) UNK YES Adjoining: NO UNK YES	
2. To the best of your knowledge, has the property or any adjoining property been used for industrial purposes in the past?	Property: (NO) UNK YES Adjoining: (NO) UNK YES	
3. Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Property: (NO) UNK YES Adjoining: (NO) UNK YES	
4. To the best of your knowledge, has the property or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Property: (NO) UNK YES Adjoining: (NO) UNK YES	
5. Has fill dirt been brought onto the property that originated from a contaminated site or that is of an unknown origin?	(NO) UNK YES	

ENVIRONMENTAL QUESTIONAIRE

6. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than five gallons (19 liters) in the aggregate, stored on or used at the property or at the facility?	New?: (NO) UNK YES Past?: (NO) UNK YES	
7. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55 gallon [208 liters]) or sacks of chemicals located on the property or at the facility?	New?: (NO) UNK YES Past?: (NO) UNK YES	
8. Are there currently, or to the best of your knowledge have there been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?	New?: (NO) UNK YES Past?: (NO) UNK YES	
9. Is there currently, or to the best of your knowledge has there been previously, any areas of stained soil on the property?	New?: (NO) UNK YES Past?: (NO) UNK YES	
10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the property?	New?: (NO) UNK YES Past?: (NO) UNK YES	

ENVIRONMENTAL QUESTIONAIRE

11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?	New?: (NO) UNK YES Past?: (NO) UNK YES	
12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?	New?: (NO) UNK YES Past?: (NO) UNK YES	
13. If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environment/health agency?	(NO) UNK YES	
14. Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?	(NO) UNK YES	

ENVIRONMENTAL QUESTIONAIRE

15. Has the owner or occupant of the property been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the property or any facility located on the property?	NO UNK YES	
16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property?	NO UNK YES	
17. Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property?	NO UNK YES	
18. Does the property discharge waste water on or adjacent to the property other than storm water into a sanitary sewer system?	NO UNK YES	

ENVIRONMENTAL QUESTIONAIRE

19. To the best of your knowledge, have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried, and/or burned on the property?	(NO) UNK YES	
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	(NO) UNK YES	

21. How do you currently use the property and how have you used the property in the past (please be specific).

Hotel hospitality business.

22. What is your understanding of how the property was used before your ownership/occupancy?

Hotel hospitality business

ENVIRONMENTAL QUESTIONAIRE

I hereby certify that to the best of my knowledge all of the information provided in this environmental questionaire is true and correct.

Signature: Usha Patel

Print Name/Address: USHA PATEL / 17674 VILLAGE DRIVE
PLYMOUTH, CA 95669

Phone: (209) 245 4491

Date complete: 10/23/08

Relation to property: owner ✓ operator ____ manager ____ tenant ____

PROPERTY OWNER QUESTIONAIRE FOR APN 08-110-009 (137.78 ACRES)

PROPERTY OWNER: RON MATULICH

October 7, 2003

To: Ron Matulich (Property Owner APN 08-110-009) (Parcel 1)

RE: Phase I Environmental Site Assessment for APNs 010-20-03 (0.64 acres), 010-20-04 (2.68 acres), 010-20-06 (1.65 acres), 010-20-07 (1.19 acres), 010-20-08 (0.53 acres), 010-20-09 (0.81 acres), 010-20-10 (1.56 acres), 010-20-11 (1.22 acres), 08-011-026 (60 acres), 08-110-022 (7.86 acres), and 08-110-009 (137.78 acres).

Dear Sir/Madam:

You have been identified as the one most knowledgeable of the history of the indicated property(s). Please complete the questionnaire below with regard to the indicated property and Assessor's Parcel Number(s) (APN). You are being asked to provide this information and insight to assist in the preparation of an environmental site assessment for this property. Please provide as much information as you can to assist in this effort and feel free to attach extra sheets/reports if the space provided is insufficient.

Please return the completed form to:

Analytical Environmental Services
Attn: Pete Connelly
2021 "N" Street, Suite 200
Sacramento, CA 95814

Telephone (916) 447-3479
Fax (916) 447-1665

Thank you for your help and cooperation.

1.	Is the property or any adjoining property currently used for industrial purposes?	Property: (NO) UNK YES Adjoining: (NO) UNK YES
2.	To the best of your knowledge, has the property or any adjoining property been used for industrial purposes in the past?	Property: NO UNK YES MINING Adjoining: NO UNK YES
3.	Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Property: (NO) UNK YES Adjoining: (NO) UNK YES
4.	To the best of your knowledge, has the property or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Property: (NO) UNK YES Adjoining: (NO) UNK YES
5.	Has fill dirt been brought onto the property that originated from a contaminated site or that is of an unknown origin?	(NO) UNK YES

6. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than five gallons (19 liters) in the aggregate, stored on or used at the property or at the facility?

New?: NO UNK YES
Past?: NO UNK YES

7. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55 gallon [208 liters]) or sacks of chemicals located on the property or at the facility?

New?: NO UNK YES
Past?: NO UNK YES

8. Are there currently, or to the best of your knowledge have there been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?

New?: NO UNK YES
Past?: NO UNK YES

9. Is there currently, or to the best of your knowledge has there been previously, any areas of stained soil on the property?

New?: NO UNK YES
Past?: NO UNK YES

10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the property?

New?: (NO) UNK YES

Past?: (NO) UNK YES

11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?

New?: (NO) UNK YES

Past?: (NO) UNK YES

12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?

New?: (NO) UNK YES

Past?: (NO) UNK YES

13. If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environment/health agency?

(NO) UNK YES

14. Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property? NO UNK YES

15. Has the owner or occupant of the property been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the property or any facility located on the property? NO UNK YES

16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property? NO UNK YES

17. Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property? NO UNK YES

18. Does the property discharge waste water on or adjacent to the property other than storm water into a sanitary sewer system? NO UNK YES

19. To the best of your knowledge, have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried, and/or burned on the property? NO UNK YES

20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs? NO UNK YES

21. How do you currently use the property and how have you used the property in the past (please be specific).

DRY LAND PASTURE

22. What is your understanding of how the property was used before your ownership/occupancy?

DRY LAND PASTURE

Completed by: Ronald A. Matulich

Phone: 209-245-6656

Date completed: 10-07-03

Relation to property: ____ owner ✓ operator ____ manager ____ tenant

PROPERTY OWNER QUESTIONAIRE FOR APNS 10-200-006, 10-200-007, 10-200-008, 10-200-009, 10-200-010, AND 10-200-011 (PARCELS 6, 7, 8, 9, 10, AND 11)

PROPERTY OWNER: NORMAN WHEELER

October 28, 2003

Property Owner

RE: Phase I Environmental Site Assessment for APN) 010-20-06 (1.65 acres), 010-20-007 (1.19 acres), 010-20-008 (0.53 acres), 010-20-009 (0.81 acres), 010-20-010 (1.56 acres), and 010-20-011.

Dear Sir/Madam:

You have been identified as the one most knowledgeable of the history of the indicated property(s). Please complete the questionnaire below with regard to the indicated property and Assessor's Parcel Number(s) (APN). You are being asked to provide this information and insight to assist in the preparation of an environmental site assessment for this property. Please provide as much information as you can to assist in this effort and feel free to attach extra sheets/reports if the space provided is insufficient.

Please return the completed form to:

Analytical Environmental Services
Attn: Pete Connelly
2021 "N" Street, Suite 200
Sacramento, CA 95814

Telephone (916) 447-3479
Fax (916) 447-1665

Thank you for your help and cooperation.

1. Is the property or any adjoining property currently used for industrial purposes?

   Property: (NO) UNK YES

   Adjoining: NO UNK (YES) ~~Hampton~~ Shenandoah Inn

2. To the best of your knowledge, has the property or any adjoining property been used for industrial purposes in the past?

   Property: (NO) UNK YES

   Adjoining: (NO) UNK YES

3. Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?

   Property: (~~NO~~) UNK YES

   Adjoining (NO) UNK YES

4. To the best of your knowledge, has the property or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?

   Property: (NO) UNK YES

   Adjoining: (NO) UNK YES

5. Has fill dirt been brought onto the property that originated from a contaminated site or that is of an unknown origin?

   (NO) UNK YES

6. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than five gallons (19 liters) in the aggregate, stored on or used at the property or at the facility?

New?: (NO) UNK YES
Past?: (NO) UNK YES

7. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55 gallon [208 liters]) or sacks of chemicals located on the property or at the facility?

New?: (NO) UNK YES
Past?: (NO) UNK YES

8. Are there currently, or to the best of your knowledge have there been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?

New?: (NO) UNK YES
Past?: (NO) UNK YES

9. Is there currently, or to the best of your knowledge has there been previously, any areas of stained soil on the property?

New?: (NO) UNK YES
Past?: (NO) UNK YES

10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the property?

New?: (NO) UNK YES

Past?: (NO) UNK YES

11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?

New?: (NO) UNK YES

Past?: (NO) UNK YES

12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?

New?: (NO) UNK YES

Past?: (NO) UNK YES

13. If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environment/health agency?

NO UNK (YES)

Well on parcel 100-200-007 is not suited for drinking water

14. Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property? (NO) UNK YES

15. Has the owner or occupant of the property been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the property or any facility located on the property? (NO) UNK YES

16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property? (NO) UNK YES

17. Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property? NO UNK YES

18. Does the property discharge waste water on or adjacent to the property other than storm water into a sanitary sewer system? NO UNK YES

19. To the best of your knowledge, have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried, and/or burned on the property? NO UNK YES

20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs? NO UNK YES

21. How do you currently use the property and how have you used the property in the past (please be specific).

Parcels 6, 7, and 10 are undeveloped.
Parcels 8 and 9 developed residential.

22. What is your understanding of how the property was used before your ownership/occupancy? Temporary Grazing of cattle.

Completed by: Pete Connelly AES via phone Interview with Norman Wheeler

Phone: ~~10/28/03~~ PC 209-257-5772

Date completed: 10/28/03

Relation to property: ✓ owner ____ operator ____ manager ____ tenant

PROPERTY OWNER QUESTIONAIRE FOR APNS 10-200-003 AND 10-200-004 (0.64 AND 2.68 ACRES)

PROPERTY OWNER: USHA PATEL

October 28, 2003

Property Owner

RE: Phase I Environmental Site Assessment for APN) 010-20-06 (1.65 acres), 010-20-07 (1.19 acres), 010-20-08 (0.53 acres), 010-20-09 (0.81 acres), 010-20-10 (1.56 acres).

Dear Sir/Madam:

You have been identified as the one most knowledgeable of the history of the indicated property(s). Please complete the questionnaire below with regard to the indicated property and Assessor's Parcel Number(s) (APN). You are being asked to provide this information and insight to assist in the preparation of an environmental site assessment for this property. Please provide as much information as you can to assist in this effort and feel free to attach extra sheets/reports if the space provided is insufficient.

Please return the completed form to:

Environmental Science Associates
Attn: Pete Connelly
2021 "N" Street, Suite 200
Sacramento, CA 95814

Telephone (916) 447-3479
Fax (916) 447-1665

Thank you for your help and cooperation.

1. Is the property or any adjoining property currently used for industrial purposes?

Property: (NO) UNK YES
Adjoining: (NO) UNK YES

2. To the best of your knowledge, has the property or any adjoining property been used for industrial purposes in the past?

Property: (NO) UNK YES
Adjoining: (NO) UNK YES

3. Is the property or any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?

Property: (NO) UNK YES
Adjoining: NO UNK (YES) Texaco

4. To the best of your knowledge, has the property or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?

Property: (NO) UNK YES
Adjoining: NO UNK (YES) Texaco

5. Has fill dirt been brought onto the property that originated from a contaminated site or that is of an unknown origin?

(NO) UNK YES

6. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than five gallons (19 liters) in the aggregate, stored on or used at the property or at the facility?

New?: (NO) UNK YES
Past?: (NO) UNK YES

7. Are there currently, or to the best of your knowledge have there been previously, any industrial drums (typically 55 gallon [208 liters]) or sacks of chemicals located on the property or at the facility?

New?: (NO) UNK YES
Past?: (NO) UNK YES

8. Are there currently, or to the best of your knowledge have there been previously, any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?

New?: (NO) UNK YES
Past?: (NO) UNK YES

9. Is there currently, or to the best of your knowledge has there been previously, any areas of stained soil on the property?

New?: (NO) UNK YES
Past?: (NO) UNK YES

10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the property?

New?: (NO) UNK YES
Past?: (NO) UNK YES

11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?

New?: (NO) UNK YES
Past?: (NO) UNK YES

12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?

New?: (NO) UNK YES
Past?: (NO) UNK YES

13. If the property is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environment/health agency?

(NO) UNK YES

14. Does the owner or occupant of the property have any knowledge of environmental liens or governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property? (NO) UNK YES

15. Has the owner or occupant of the property been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the property or any facility located on the property? (NO) UNK YES

16. Does the owner or occupant of the property have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property or recommended further assessment of the property? (NO) UNK YES

17. Does the owner or occupant of the property know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substance or petroleum products involving the property by any owner or occupant of the property? NO UNK YES

18. Does the property discharge waste water on or adjacent to the property other than storm water into a sanitary sewer system? NO UNK YES

19. To the best of your knowledge, have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried, and/or burned on the property? NO UNK YES

20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs? NO UNK YES

APPENDIX F

RESUMES

ANALYTICAL ENVIRONMENTAL SERVICES

DAVID ZWEIG, P.E.

Principal Engineer

David Zweig, a Civil Engineer and graduate from UC Berkley, has 15 years experience in Environmental Impact Reporting, Phase I and Phase II Site Assessments, Water Permitting and Regulatory Compliance, and Project Management. Prior to forming AES, Mr. Zweig was the Sacramento Office Manager for Environmental Science Associates. He led ESA's Engineering group in the areas of environmental analysis; hazardous materials; water project permitting and regulatory compliance; water quality studies, water rights; and public infrastructure project coordination. Mr. Zweig has provided technical oversight and completed numerous Phase I and Phase II hazardous materials investigations for public agencies and private parties throughout California and the U.S.

REGISTRATION AND LICENSES

California Professional Engineer
Washington Professional Engineer
California Department of Health Services Water Treatment Plant Operator

EDUCATION

University of California, Berkeley
Bachelor of Science in Civil Engineering Degree

REPRESENTATIVE PROJECTS

- **Defense Distribution Region West Sharpe Depot Effluent and Receiving Water Quality Assessment, Lathrop, California.** Under contract to the US Army Corps of Engineers, prepared an ERWQA for the depot's wastewater treatment plant effluent discharge. Effluent is treated at a secondary facility on-site, and discharged into an irrigation ditch that is tributary to French Camp Slough. Water quality concerns associated with the implementation of the Inland Surface Water Plan prompted the Regional Water Quality Control Board to require an ERWQA as a condition in the plant's Waste Discharge Requirements. Based on a limited number of lab tests, a work plan was prepared for the ERWQA to assess the impact of continued effluent discharges on the receiving water and possibly lead to treatment process and/or operational modifications.

- **Sacramento Municipal Utilities District Phase I and II Environmental Assessments.** Performed Phase I and Phase II environmental site assessments on two cogeneration plant sites. The assessments consisted of records searches, interviews with representatives from regulatory agencies, field reconnaissance, sampling of surface soils, laboratory testing, and analysis of data. The assessments resulted in recommendations regarding the need for additional subsurface investigations and the risks associated with disposing of soil from the sites.

- **City of Willits Sanitary Survey, Mendocino County.** Managed the preparation of a watershed sanitary survey for the City Water Department for submission to the Department of Health Services to comply with the California Surface Water Treatment Regulation. In accordance with AWWA guidelines, the survey identifies potential contaminant sources within the watershed, and suggests methods for effectively managing the watershed. Potential contaminant sources within the 3,200-acre watershed include septic systems, mining, and a police shooting range.

- **Carmichael Water District Bajamont Way Phase I Environmental Site Assessment and Disposal Area Preliminary Assessment.** Performed a Phase I environmental assessment on the District's Corporation Yard site. The assessment consisted of a records search, interviews with representatives from regulatory agencies, field reconnaissance, sampling of surface soils, laboratory testing, and analysis of data. The assessment resulted in recommendations regarding the need for additional subsurface investigations and the risks associated with disposing of soil from the site. A preliminary assessment of a spoils disposal area at the site was also performed.

- **City of San Leandro Groundwater Monitoring Program.** Developed and implemented a groundwater monitoring program for the City's Dredged Material Management Site, adjacent to San Francisco Bay. The site is used to dewater dredged material from the City's marina prior to land disposal. As a condition of the City's NPDES permit, ESA developed and implemented a groundwater investigation that included the installation and quarterly sampling of six monitoring wells. Four quarterly reports were prepared and submitted to the Regional Water Quality Control Board.

- **Auto Park Treatment Tank Relocation Engineering, Environmental Review, and Land Acquisition.** Relocated Calgon activated carbon adsorption system, consisting of two tanks each with 20,000 pounds of granular activated carbon. Project included installing water and sewer pipelines, booster pump station, and electronic controls, so as to allow continued use of a 1,000+ gpm well. The treatment system had been temporarily sited as an emergency measure to treat PCE contamination discovered in water from an existing well. Community concerns about visual impacts necessitated relocation.

- **Strasbaugh Well Nitrate Treatment Engineering Studies.** Studied the feasibility of providing nitrate removal for a contaminated groundwater source. Proven groundwater supplies were unusable because of nitrate contamination in the area. The contamination was the result of decades of intensive agricultural activity. An ion exchange process designed to remove nitrates from well water, and supporting infrastructure, was evaluated.

- **American I Cogeneration Facility Spill Prevention Control and Countermeasure Plan.** In cooperation with Sage Environmental, prepared a SPCCP for a cogeneration facility in King City. The American I facility uses a gas turbine cogeneration unit to generate electricity and provide steam and hot water to a neighboring food processing plant. Because of the large quantities of fuels and other chemicals stored at the facility, a SPCCP was required by the Regional Water Quality Control Board (RWQCB). In requiring the SPCCP, the RWQCB was implementing the regulations contained in Title 40 of the Code of Federal Regulations, Part 112. The SPCCP consists of an inventory of storage tanks and containment systems at the facility and recommendations to prevent hazardous materials from being released into nearby surface waters.

- **Defense Distribution Region West Sharpe Depot Storm Water Pollution Prevention Plan, Lathrop, California.** Under contract to the US Army Corps of Engineers, prepared a SWPPP for the 300 acre Sharpe Depot. The depot receives, warehouses, and ships out military supplies and equipment. Shipments of bulk chemicals, mechanical parts, weapons, ammunition, and supplies arrive at the depot by air, rail, and truck. Previous spills at the depot have caused groundwater contamination and required remedial actions. To comply with Regional Water Quality Control Board NPDES permit requirements, a SWPPP was prepared that inventoried possible sources of stormwater pollution, and recommended measures to prevent those pollutants from entering storm water.

PROFESSIONAL AFFILIATIONS

Association of California Water Agencies
American Water Works Association
American Society of Civil Engineers
California Water Reuse Association
State Water Resources Control Board Inland Surface Water Plan Task Force, 1994-1995
Sacramento Metropolitan Water Authority Board of Directors, 1995-1996
Citrus Heights Water District Board of Directors, 1994-1997
Pismo Beach Public Works Commission, Vice President, 1992-93

ANALYTICAL ENVIRONMENTAL SERVICES

PETER J. CONNELLY, REA I (#30018)

Environmental Scientist

Mr. Connelly is an environmental scientist with experience in ecological and human health risk assessment and numerous Phase I Environmental Site Assessments (ESAs). Mr Connelly also has over five years experience in conducting pollution characterization and Phase I ESAs. He has professional level experience in site assessments for the purposes of conducting screening level ecological and human health risk assessments and groundwater quality assessments. Additionally, Pete has experience in preparing Phase I ESAs using the American Society of Testing Materials (ASTM) Standard Practice E1527-00 and ASTM Standard 1527-05. Mr Connelly also has experience in writing sampling and analysis plans (SAPs), storm water pollution prevention plans (SWPPPs), and conducting groundwater and surface water monitoring. As an AES associate, Mr. Connelly has prepared numerous CEQA and NEPA documents, Phase I ESAs, SAPs, and SWPPPs for Tribal and private clients. Mr. Connelly has authored over 25 Phase I ESAs of which a partial list is provided below.

EDUCATION

University of California, Davis
BACHELOR OF SCIENCE IN ENVIRONMENTAL TOXICOLOGY (2001)

PROFESSIONAL EXPERIENCE

Phase I Environmental Site Assessment Partial List

- **Overnite Transportation: 10000 Waterman Road Phase I ESA:** The ESA involved an approximate 54.7 acre site located in Elk Grove, California. Deputy Project Manager and primary author.
- **MJL Properties: 3516 Fair Oaks Boulevard Phase I ESA.** This Phase I involved an approximate 0.36 acre parcel with a pre-existing retail commercial building located in Sacramento California. Deputy Project Manager and primary author.
- **Auburn Rancheria Parcels Phase I ESA.** The project consists of the transfer of 2.84 acres in Placer County, California from fee to trust status. The proposed use for the site includes a school and administration office space for the Tribe. Primary author for the ESA in coordination with Tribal members and governmental agencies.
- **Auburn Rancheria Phase I ESA: Sunset Athens Connector Road.** The project consists of a road right-of-way through approximately 21-acres on undeveloped land. The United Auburn Indian Community (UAIC) proposes to construct a public road, "Athens Road," to connect Athens Avenue to Sunset

Boulevard in Placer County, CA. Primary author for the ESA in coordination with Tribal members and governmental agencies.

- **Auburn Rancheria: Phase I ESA 1100-Acre Residential Site.** The project consists of the transfer from fee to trust of 1100 acres located near the town of Sheridan in Placer County, California. Primary author for the ESA in coordination with Tribal members and governmental agencies.

- **Cache Creek Casino/Capay Hills Golf Course Phase I ESA.** The project consists of the expansion of the existing gaming facility and construction of a golf course on the Rumsey Rancheria.

- **Timbisha Shoshone Phase I ESA.** The ESA was a supporting document for the transfer from fee to trust 58.08-acres located in the incorporated City of Hesperia in San Bernardino County, California. Primary author.

- **Confederated Tribes of Coos, Lower Umpqua, and Siuslaw Indians Phase I ESA.** One parcel of approximately the 98.2 ± acres in size located in Lane County Oregon. Primary author.

- **Ione Band of Miwok Indians 228.04-acres Fee to Trust Project Phase I ESA.** The ESA consisted of twelve parcels located in Amador County, California. Primary author.

- **Scotts Valley, 155 Parr Boulevard Phase I ESA:** The project consists of the transfer from fee to trust two parcels located in unincorporated Contra Costa County, immediately adjacent to the City of Richmond, California. Primary author.

- **Santa Ynez Band of Chumash Indians: Phase I ESA Parker Property.** The ESA involved an area of approximately 748-acres located in Santa Barbara County, California. Deputy project manager and primary author.

- **Santa Ynez Band of Chumash Indians: Phase I ESA Federico's Restaurant.** The ESA involved a 15,000 square foot restaurant located in Santa Barbara County, California. Deputy project manager and primary author.

- **Santa Ynez Band of Chumash Indians: Phase I ESA Royal Scandinavian Inn.** The ESA involved an approximate 79,000 square foot hotel and restaurant located in Santa Barbara County, California. Deputy Project Manager and primary author.

- **Torres Martinez Phase I ESA:** The ESA involved the assessment of an area approximately 20-acres in size to support the construction of a truck stop and gas station located on Tribal land off State Highway 86, approximately 45 miles south of Palm Springs, CA. Primary author.

- **North Fork Rancheria Phase I ESA:** The ESA involved the assessment of the North Fork Rancheria, an area approximately 80-acres in size located approximately 10 miles south of the City of Oakhurst, in an unincorporated area of Madera County, CA. Primary author.

- **North Fork Casino Phase I ESA:** This ESA involved the assessment of 305 acres of agricultural land with associated residence, barns and outbuildings located in Madera County, approximately 25 miles north of the City of Fresno, CA. Primary author.

- **L Street Phase I ESA.** This ESA involved an approximate 0.22 acre parcel with a pre-existing 8,800 square foot commercial building with dental office located in Sacramento, California. Deputy project manager and primary author.

- **2000 O Street Phase I ESA.** This ESA involved three parcels of which one had an approximate 28,500 square foot medical and commercial building located in Sacramento, California. Deputy project manager and primary author.

- **Fearrian Property Phase I ESA.** This ESA involved the assessment of approximately 125 acres of pasture and wooded riparian area located in Humbolt County, California. Pre-existing on the Subject Property was a residence, outbuildings, barn and corral area. Deputy project manager and primary author.

- **Lytton Windsor Property Phase I ESA**. This ESA involved the assessment of approximately 50.46 acres of undeveloped wooded land located on outside the town of Windsor in Sonoma County, California. Deputy project manager and primary author.

- **Sonoma Land Acquisition Phase I ESA.** This ESA involved the assessment of approximately 5.0 acres of vacant agricultural land approximately 3.5 miles south of the City of Santa Rosa, CA. Deputy project manager and primary author.

- **Elden Property Phase I ESA.** The assessment covered approximately 215 acres of vacant land located in Brooks, CA. Deputy project manager and primary author.

- **Sugarloaf Ranch Phase I ESA.** This Phase I covered five legal parcels totaling approximately 836 acres of rural residential, native and non-native grassland, steep oak savannah, and riparian areas adjacent to Cache Creek. The Subject Property is located outside Brooks, CA approximately ten miles west of the City of Woodland, CA.

APPENDIX G

SOIL SAMPLING RESULTS

Table 1

IONE SAMPLING RESULTS*

Composite Sample ID Numbers

Sample Constituents	WR-1	WR-2	WR-3	WR-4	WR-5	WR-6	WR-7	WR-8	WR-9	WR-10	BG-1	BG-2	BG-3	Commercial PRG[1]	Residential PRG
Analyte															
Antimony (ppm)	ND	ND	ND	ND	ND	ND	3.3	ND	ND	2.8	ND	ND	ND	410	31
Arsenic (ppm)	**220**	**180**	73	**280**	**190**	**270**	**32**	**21**	**18**	**110**	**9.3**	**10**	**8**	1.622*	0.39*
Barium (ppm)	75	41	79	160	63	76	71	54	91	110	82	100	120	190,000	15,000
Beryllium (ppm)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,900	150
Cadmium (ppm)	0.81	0.65	0.51	0.86	0.86	1	ND	ND	ND	ND	ND	ND	ND	810	70
Chromium (ppm)	9.3	10	16	12	13	14	16	15	20	16	35	32	25	1400*	230*
Cobalt (ppm)	11	12	12	12	11	13	9.2	8.6	7.1	12	12	13	10	1,900	150
Copper (ppm)	49	54	48	63	51	57	50	40	45	51	35	37	24	41,000	3,100
Lead (ppm)	35	20	13	14	19	25	**48**	14	26	17	14	16	10	NA	400
Mercury (ppm)	0.19	0.19	0.11	0.22	0.25	0.22	0.14	0.19	0.16	0.19	ND	ND	ND	28	6.7
Molybdenum (ppm)	3.9	4.8	3.2	3.1	3.2	3.4	3.5	2.3	3.3	2.8	2.8	2.8	1.9	5,100	390
Nickel (ppm)	28	31	35	36	33	36	34	26	31	35	42	43	26	1,600	20,000
Selenium (ppm)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5,100	390
Silver (ppm)	2.0	1.9	1.5	1.7	1.4	1.8	1.6	1.0	1.5	1.7	1.8	1.9	1.5	5,100	390
Thallium (ppm)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	66	5.1
Vanadium (ppm)	8.8	8.2	14	11	11	13	15	14	21	15	29	27	28	7,200	550
Zinc (ppm)	110	75	97	89	110	120	110	100	96	110	100	100	76	310,000	23,000
NOA (Naturally Occuring Asbestos)															
Asbestos Fibers	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	CARB Method 435[5]	

Notes: * Items noted in bold indicate exceedances of the PRG

[1] United States Environmetnal Protection Agency Preliminary Remediation Goals (PRG)

[2] California Modified PRG

[3] ppm = part per million (mg/kg)

[4] ND = Not detected

[5] California Air Resources Board Method 435 asbestos fibers is reported in persent asbestos present in bulk samples

Study of State Soil Arsenic Regulations

Conducted by the Association for the Environmental Health of Soils
150 Fearing Street, Amherst, MA 01002

For Questions Contact: Linda Baldwin or Heather McCreary
Tel: 413-549-5170
Fax: 413-549-0579
email: linda@aehs.com
heather@aehs.com

Objective: The objective of the survey is to determine how arsenic in soil is regulated nationally. The following series of questions were developed to help define how soil screening thresholds and remedial action levels are established, and how risk assessment is used in the process.

As of December 1, 1998 a total of 34 (out of 50) states had responded. These include: Alabama, Alaska, Arizona, Arkansas, California, Connecticut, Delaware, Denver, Florida, Hawaii, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Michigan, Mississippi, Missouri, Montana, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, South Carolina, Tennessee, Texas, Virginia, Washington, Wyoming.

Section I - General Information

2a. What is the range of naturally occurring background concentrations for soil arsenic in your state? (see Table 2)

2b. How was this background concentration established? (see Table 2)

2c. How does your state use background concentration in soil criteria? (see Table 2)

2d. Does your state consider adjacent property backgrounds, even if above naturally occurring background, in enforcing cleanup levels?

Yes	**21**	No	**9**	Don't Know	4

Yes - AL, AR, CA, DE, FL, IL, HI[2], KY[3], ME, MD, MI[4], MS, MO, NJ[5], NY, ND, OK, SC, TX, WA, WY
No - AK, AZ, CO[1], CT, KS, NH, OH, OR, VA
Don't know - IA, MT, NM, TN

Notes- **Colorado**: Primary consideration is whether adjacent property was impacted by Waste or not.[1]
Hawaii: Sometimes.[2]
Kentucky: To determine levels that must be remediated.[3]
Michigan: Sometimes, but only if it is not attributable to a release.[4]
New Jersey: Adjacent property levels are considered only if they represent natural background.[5]

Table 2

State	Range 2a.	Established 2h.	Use 2c.
AK	17.3 mg/kg	Geochemical Atlas of Alaska	Compare the statistical mean conc for each Hazd substance/compare the max hazd substance conc detected.
AL	.1 - 10	US Geological Survey 1984	RCRA clean closure: to indicate disposal activities
AZ	1.4 - 97 mg/kg	USGS sampling of surficial soils in Boerngen & Shacklette, 1981, USGS Open-file Report 81-197.	Naturally occuring contaminate levels can be used as cleanup levels.
AR	1.1 - 16.7 ppm	Regional numbers	Considered on site specific basis after screening process.
CA	5-40(SF Bay Area) 5-20(southern cal.) thousands(gold country)	Background levels of trace elements in Southern California soils, Contract #89-T0081, Cal. EPA/Protocol for determining background conc of metals in soils at Lawrence Berkeley National Laboratory, 1995.	Realistic standard in setting cleanup levels.
CO	4 - 40 ppm	Site-specific data collection	If risk-based clean-up levels fall below background, the background values are used as the clean-up standards
CT	Up to 10 ppm	DEP paper covering New England w/CT data	Criterion for soil cleanup
DE	0.4 mg/kg	From historical site investigations	Risk assessments, remediation standard requirements
FL	0 - 3 mg/kg	Empirically	To modify the SCTL (Soil Concentration Target Limit)
HI	0.93 to 5 mg/kg	The background samples are collected from noncontaminated areas or from subsurface of the study areas. Statistical analyses were applied. Further studies are needed to confirm naturally occurring background concentrations.	To establish action levels
IL	0.35 - 24.0 ppm	Survey of data reported to agency during site investigation.	Chemicals may be excluded as chemical of concern for a site by comparison to background and background conc. may be used as remediation objectives.
IA	5 - 10 mg/kg	Approximation based on experience	Informally, no action required when near background levels.
KS	Non detect - <100 mg/kg	Review of data selected from various sites across the state.	As a Tier 1 approach, use background if exceeds 10^{-6} cancer or H.I. = 1.0
KY	0.1 - 10 mg/kg	Based on analyzing samples from across the state which were labeled as "background"	To determine presence or absence of contamination
ME	1 - 28 mg/kg	Based on data available from 5 sites in Maine	Inorganic contaminants present at concentrations greater than soil criteria; background is considered the critical benchmark
MD	No background est.	Not available	No state soil criteria
MI	0.1 - 11.0 mg/kg	Background as conc established through a MI background soil survey conducted by Waste Management Division.	A background concentration is used as a default cleanup criterion when it is higher than the calculated criteria.
MS	0 - 26 ppm (4 - 10 Avg.)	USGS paper 1270- Elemental Concentration in Soils & Other Surficial Materials...	Background concentration can be considered as an alternative cleanup standard.
MO	Not available	Chemical analysis of many soil samples taken during an agriculture soil survey which included soil chemical characteristic information.	Don't usually set cleanup goals lower than proven background concentrations.
MT	Non detect – 100's ppm in geothermie areas.	Via soil testing (mostly XRF).	Take them into account, but use risk based human health numbers as action levels.
NH	0 - 12 mg/kg	From a database of soil samples from playgrounds and background levels at sites that are then used for biosolid applications. The 95th percentile value of the data is used.	Background is used as a cleanup standard when risk based numbers are lower.
NM	.015 - 17.00 mg/kg	Testing done by Sandia Labs	To establish cleanup of contaminated sites.
NJ	0.02 – 350 ppm	DEP background testing and review of sites under DEP oversight	Legislation states that remediation is not to be required below regional natural background levels.
NY	3 - 12 ppm	Site specific data is preferred but literature data is used	For inorganic materials, background is used as the starting point in determining the soil cleanup level.
ND	<0.1 - 34 mg/kg	Use of documented studies by USGS in Region	Comparative background to established contamination
OH	Non detect - 30 ppm	Using site data from several RCRA facilities that established background conc. for their sites	Setting up cleanup standards for metals only.
OK	0 - 32 mg/kg	USGS Soil survey and site specific background determinations for a variety of sites.	Sometimes criteria for no further action – sometimes for screening.
OR	1 - 10 ppm	Limited survey of cleanup sites	Natural background is considered to be protective of human health & the environment. Cleanup to background concentration, if higher than risk-based concentration.

Table 2 (continued)

State	Range 2a.	Established 2b.	Use 2c.
SC	2 - 11 mg/kg	Average of sites sampled statewide	To determine clean-up levels in most cases.
TN	0.1 - 120 ppm	TN Division of Superfund - from EPA or state site inspections.	Used to evaluate whether concentrations at a site are within natural background. Not all Divs. use background
TX	1 -- 18 ppm	US Geological Survey	It can be used to screen contaminants from a risk assessment; it can be used as a cleanup level.
VA	Varies from site to site	By sampling	Not available
WA	0.5 - 28.6 mg/kg	Background soil survey	Background concentration of 20 mg/kg is used as the cleanup standard if the human health value is below background. 1.67 mg/kg for human health
WY	Not available	Not available	Site specific only - won't allow use of regional background

3a. What are the sources of soil arsenic at contaminated INDUSTRIAL sites?

Source	States Reporting Sources
Mining wastes	AK, AL, AR, AZ, CA(>100 sites), CO(>25 sites), FL, KY, ME, MD, MT(>50 sites), OH(2 sites), OK(2 sites), OR, SC, TN, WA, WY
Coal dust	AL, AZ, DE, FL, KS(20-25 manufactured coal gas sites), KY, MD, NH(>2 sites), OR, SC, TN, WA
Coal gasification facility	FL(23 sites), ND(1 site)
Fly ash	AK, AL, AR, AZ, FL, KY, ME, OH(3 sites), SC, TN, TX, WA
Foundries	KY
Glass manufacturing	FL(1 site), IL(1 site)
Hazardous Waste Treatment	OH
Highway reeycling facility	ND(1 site)
Phosphate fertilizers	AL, AR, AZ, DE, FL, KS(at least 1 site), MS, TN, TX, WA
Treated wood	AK, AL(5 sites), AR, AZ, CA(>100 sites), CO(~5 sites), DE, FL, HI, IL(2 sites), ME, MD, MS, MO(at least 1 site), NH(>1 site), NY, OH(4 sites), OK (10-15 sites), OR, SC, TN, TX, WA, WY
Pesticides, herbicides, defoliants, ripening agent	AL(3 sites), AR, AZ, CA(>1000 sites), CO(~5 sites), FL, HI, IL(several sites), ME, MD, MS, MO(>3 sites), NH(>2 apple orchard sites), NJ, NY, OH(2 sites), OK, OR, TN, TX, WA
Potliners (AL production)	AL(2 sites)
Recovered screened material (RSMs) or other backfilled materials	FL, MD, NH(>3 sites), OR, TN, WA
Land applied domestic wastewater sludge	AL, FL, KY, OR, SC, TN, TX, WA
Land applied industrial wastewater sludge	AL, FL, MS, OR, SC, TN, TX, WA
Landfilled pharmaceutical waste & wastewater sludge	IA(2 sites)
Lead-acid battery recycling	FL
Livestock dip vats	AL, AR, FL, MS, OK, OR, TN, TX, WA
Metal finishing	OH
Metal plates	KY
Paint shops	OH
Raw materials assoc. with manufacturing processes	NJ
Sand and gravel facilities/operations	MD
Shot rock	AK
Smelters	OK(17 sites), TX
Steel production waste	AL(2 sites), FL(3 sites)
Waste management facility	NH(1 site)

Note: Industrial site source data not available for - CT, MI, NM and VA.

3b. What ranges of soil arsenic contamination are found in your state's Industrial sites?

Range	States that reported
<1 mg/kg	AR , FL, KY, MD, MT, NJ, ND, OH, TN, TX
1-10 mg/kg	AR, AZ, DE, FL, IL, IA, KY, MD, MS, MT, NJ, ND, OH, OR, TN, TX
10-100 mg/kg	AR, AZ, CA, CO, DE, FL, HI, IL, KY, ME, MD, MS, MT, NH, NJ, ND, OH, OK, OR, SC, TN, TX
100-1000 mg/kg	AR, AZ, CA, CO, DE, FL, HI, IL, KY, ME, MD, MS, MT, NJ, ND, OK, OR, SC, TN, TX
>1000 mg/kg	CA, CO, DE, FL, HI, IA, KS, KY, MS, MO, MT, NJ, OR, TN, TX, WA

Note: New York reported – Approx ½ dozen inactive hazardous waste sites have been driven by arsenic contamination with levels in the hundreds and thousands of ppm.

4a. What are the sources of soil arsenic at contaminated RESIDENTIAL/ RECREATIONAL sites?

Source	States Reporting Sources
Mining wastes	AK, AR, AZ, CA(>1000 sites), CO(>25 sites), MD, MO(at least 2 sites), MT(>50 sites), OH, OK(2 sites), OR, SC, TN, WA
Coal dust	KS(20-25 manufactured coal gas sites), KY, MD, OR, TN, WA
Fly ash	AK, AZ, FL, OH, TN, WA
Glass manufacturing	IL(1 site)
Phosphate fertilizers	AR, AZ, FL, MS, SC, TN, TX, WA
Treated wood	AK, CA (~20 sites), CO(~5 sites), CT, FL, MD, OK, OR, TN, TX, WA
Pesticides, herbicides, defoliants, ripening agent	AR, AZ, CA(>1000 sites), CO(~5 sites), CT(many sites), FL, HI, KY, MD, NH, ND, NY, OK, TN, TX, WA
Agricultural uses	AZ, CA(>1000 sites), CT(many sites), FL, HI, KY, MS, NH(2 sites), NJ, ND, OR, TX, WA
Right-of-way	AZ, CA(>1000 sites), FL, MS, OR, WA
Manufacturing	OR, TX, WA
Golf course	AZ, FL, NJ, OR, WA
Recovered screened material (RSMs) or other backfilled materials	MD, NH(1 thermally treated site),OR , TN, WA
Land applied domestic wastewater sludge	OR, TN, WA
Land applied industrial wastewater sludge	OR, TN, WA
Landfilled pharmaceutical waste & wastewater sludge	IA(2 sites)
Livestock dip vats	FL, OK, OR, TN, WA
Shot rock	AK
Smelters	OK(17 sites), TX, WA
Plating activities	TX

Note: Residential source data not reported for: AL, DE, ME, MI, NM, VA, WY

4b. What ranges of soil arsenic contamination are found in your state's Residential sites?

Range	States that reported
<1 mg/kg	AL, AR, AZ, DE, FL, KS, KY, MD, MS, MT, NJ, ND, OH, TX
1-10 mg/kg	AL, AR, AZ, CA, DE, FL, IA, KS, KY, MD, MS, MT, NJ, ND, OH, OK, OR, SC, TX
10-100 mg/kg	AL, AR, AZ, CA, CO, CT, FL, HI, IL, IA, KS, MD, MS, MO, MT, NH, NJ, ND, OK, OR, SC, TN, TX, WA(estimate)
100-1000 mg/kg	CA, CO, FL, MT, ND, OR, TX
>1000 mg/kg	CA, CO, MT, OR, TX, WA

5a. What are the sources of soil arsenic at contaminated AGRICULTURAL sites?

Source	State reporting source
Phosphate fertilizers	AZ, FL, SC, TX, WA
Pesticides	AR, AZ, CA, CT[1](many sites), FL, HI, KY, MS, NH(2 sites), NJ, ND, TX, WA
Herbicides	AR, AZ, CA, FL, HI, KY, MS, TX, WA
Defoliants	AR, AZ, CA, FL, KY, MS, TX, WA
Ripening Agents	AZ, TX, WA
Land applied domestic wastewater sludge	AZ, KY, WA
Land applied industrial wastewater sludge	AZ, SC, WA
Landfilled pharmaceutical waste & wastewater sludge	IA(2 sites)
Livestock dip vats	FL, MS, TX, WA
Mine smelting fallout	MT(>10 sites)

Note: Agricultural sources not reported for: AK, AL, CO, DE, IL, KS, MD, ME, MI, MO, NM, NY, OH, OK, OR, TN, VA, WY

CT[1] – agricultural sites are not affected by remediation standards

5b. What ranges of soil arsenic contamination are found in your state's Agricultural sites?

Range	States that reported
<1 mg/kg	AZ, KY, MS, MT, ND, TX
1-10 mg/kg	AZ, CA, FL, KY, MS, MT, ND, SC, TX
10-100 mg/kg	AZ, CA, CT, FL, KY, MS, MT, NH, NJ, ND, SC, TX, WA
100-1000 mg/kg	FL, MS, MT, NJ, ND, SC, WA
>1000 mg/kg	MS, MT

SECTION II - REGULATIONS

Definitions
Notification level: The level at which the state must be notified.
Action level (soil screen level): The level at which some type of action must be undertaken (e.g., risk assessment, institutional controls).
Cleanup level: The level to which remediation methods must attain.

6. Does your state have notification levels for soil arsenic?

Yes **4** No **27** Don't Know **3**

Yes - AL, DE, NM, SC
No - AK, AR, AZ, CA, CT, FL, HI, IL, IA, KS, KY, MD, MI, MS, MT, NH, NJ, ND, NY, OH, OK, OR, TN, TX, VA, WA, WY
Don't Know - CO, ME, MO

If yes, please specify what level and give the rationale for it:

State	Area	Level	Rationale
AL	Industrial	5 ppm	TCLP for RCRA at generation
DE	Restricted	61 ppm	Protection of Human health
DE	Non-restricted	2 ppm	Protection of Human health
NM	Industrial	5 mg/L	RCRA reg limit for spills
NM	Residential	5 mg/L	RCRA reg limit for spills
NM	Agricultural	5 mg/L	RCRA reg limit for spille
NM	Recreational	5 mg/L	RCRA reg limit for spills
SC	Industrial	5 ppm	RCRA TCLP limit as hazardous waste

7. Does your state have action levels (i.e. soil screening levels) for soil arsenic?

Yes **23** No **8** Don't know **1**

Yes – AK, AL, AR, CA, CO, FL, HI, IL, KS, KY, MD, MI, MS, MO, MT, NH, NJ, ND, OH, OK, OR, SC, TX
No – AZ, CT, IA, ME, NY, VA, WA, WY
Don't Know - NM

7. Continued:

If yes, please specify what level and give the rationale for it:

Industrial

State	Level	Rationale
AL	Background	Or Region 3 guidance RAGS, Region 4 CA guidance
AR	2.4 ppm	Carcinogenic effects
CO	4 ppm	Carcinogenic risk at 10^{-6} (Region III screening tables)
FL	3.7 mg/kg	1.0E-06 acceptable cancer risk level
HI	22 mg/kg	Based on non-carcinogenic effects; site specific risk assessment using industrial exposure factors may result in higher cleanup values
IL	3.0 ppm	1.0E-06 acceptable cancer risk level
KS	29 mg/kg	Threat to groundwater leachate dilution factor = 20
KY	0.85 mg/kg	Risk - based cleanup
MD	3.8 mg/kg	USEPA Region III Risk-Based Concentration (RBC), Maryland also considers issues such as mobility, populations exposed, ARARS
MI	23,000 ppb	Threat to groundwater leachate; based on drinking water criteria
MO	11 ppm	Any use soil levels. Above this level, institutional controls are required, then levels are based on risk
MT	500 ppm	Cancer risk (EPA)
NH	12 ppm	Background
NJ	20 ppm	Based on background studies and the 95th percentile of background levels at sites under review
ND		Above background
OH	~9.0 mg/kg	Site-specific cleanup standard based on a $1x10^{-5}$ risk goal and using industrial exposure factors
OK	20 mg/kg	Related to natural occurance
OR	3 mg/kg	Risk-based (or natural background if higher)
SC	3.8 mg/kg	EPA Region III RBC Table
TX	200 ppm	Health-based policy level; can be lowered due to cross-media concerns

7. Continued:

Residential

State	Level	Rationale
AK	0.1 mg/kg	Migration to groundwater
AR	0.38 ppm	Carcinogenic effects
AR	22 ppm	Non-carcinogenic effects
CO	0.4 ppm	Carcinogenic risk at 10^{-6} (region III screening tables)
FL	0.8 ppm	1.0E-06 acceptable cancer risk level using default exposure assumptions
HI	22 mg/kg	Based on non-carcinogenic effects
IL	0.4 ppm	1.0E-06 Cancer risk
KS	Background or 11 mg/kg	10^{-5} cancer risk per KAR 28-78-11
KY	0.14 mg/kg	Risk-based cleanup
MD	0.43 mg/kg	USEPA Region III RBC
MI	6,600 ppb	Protection for human health via long-term soil ingestion and dermal exposure
MS		10^{-6} risk
MO	11 ppm	
MT	250 ppm	Cancer risk (EPA)
NJ	20 ppm	Based on background studies and the 95th percentile of background levels at sites under review
ND		Above background
OH	~4.0 mg/kg	Site-specific cleanup standard based on a $1x10^{-5}$ risk goal using residential exposure factors
OK	0.4 mg/kg	From EPA SSL document or natural background for the area
OR	0.4 mg/kg	Risk-based (or natural background if higher)
SC	0.43 mg/kg	EPA Region III RBC Table
TX	20 ppm	Health-based policy level; can be lowered due to cross-media concerns

Agricultural

State	Level	Rationale
MD	0.43 mg/kg	USEPA Region III RBC
MO	11 ppm	Any use soil levels. Above this level, institutional controls are required, then levels are based on risk
NJ	20 ppm	Based on background studies and the 95th percentile of background levels at sites under review
OH	~4.0 mg/kg	Site-specific cleanup standard based on a $1x10^{-5}$ risk goal using residential exposure factors
OR	Site-specific	Risk-based (or natural background if higher)

Recreational

State	Level	Rationale
MD	0.43 mg/kg	USEPA Region III RBC
MO	11 ppm	Any use soil levels. Above this level, institutional controls are required, then levels are based on risk
MT	1000 ppm	Cancer risk (EPA)
NJ	20 ppm	Based on background studies and the 95th percentile of background levels at sites under review
OH	~4.0 mg/kg	Site-specific cleanup standard based on a $1x10^{-5}$ risk goal using residential exposure factors
OR	Site-specific	Risk-based (or natural background if higher)

8. Does your state have specific cleanup levels for soil arsenic?

Yes **21** No **11** Don't know **0**

Yes- AK, AL, AZ, CT, FL, IL, KS, KY, ME, MI, MO, NH, NJ, NM, NY, OH, OR, SC, TN, TX, WA
No- AR, CA, CO, HI, IA, MD, MS, MT, ND, VA, WY

State	Comment
CO	Cleanup levels are site-specific and based on risk assessment considerations
HI	Site specific based on risk assessment
MI	The specific cleanup level is dependent upon the pathway that exceeds MI's Part 201 cleanup criteria
NM	RCRA regulatory limit threshold of 5.0 mg/l
NY	Determination of soil cleanup levels occurs on a site specific basis; the process starts with numerical soil cleanup objectives and ends with a site specific cleanup level after consideration of the alternatives
OH	Regarding SSLs, we do not have SSLs but do calculate site-specific cleanup standards based on a 1 X 10^{-5} risk goal; usually site-specific background concentrations are used; background standards have very specific criteria
OK	Site-specific
SC	Normally we would require cleanup to background level(s)

8. continued: If yes: a. please specify what level and give the rationale for it:

INDUSTRIAL

State	Level	Rationale
AL	Background	(RCRA) or site-specific risk based similar to Superfund RAG and Region 4 Guidance
AZ	10 mg/kg	Statewide average background level
CO	100-1000 ppm	Site-specific and based on risk assessment considerations
CT	10 ppm	Background
FL	3.7 mg/kg or site-specific	1 X 10^{-6} acceptable cancer risk level
IL	3.0 ppm	1 X 10^{-6} cancer risk ; Tier 1 (baseline) cleanup level, which may be modified by site-specific information and/or exclusion of pathways of exposure
KS	29 mg/kg	Tier 2 number; threat to groundwater, leachate dilution factor = 20
KY	0.85 mg/kg	Risk-based cleanup
ME	30 mg/kg	Direct contact risk to human health
MO	11 ppm	Deed restrictions and/or registry of the site is required if less than residential cleanup (11 ppm) is used
NH	12 ppm	background
NJ	20 ppm	Based on background studies and the 95th percentile of background levels found at sites under review
OR	Site-specific	Risk-based or natural background if higher
TN	16 ppm	We use EPA's proposed RPI Guidance Levels and proposed subpart S Fed. Reg. 7-27, 1990, vol. 55 (only one level for sites – 16 ppm)
WA	200 ppm	Human-health
TX	200 ppm	Health-based policy level; can be lowered due to cross-media concerns

8. continued:

RESIDENTIAL

State	Level	Rationale
AK	8 mg/kg (ingestion)	Arctic Zone – based on climate variations throughout state
AK	5 mg/kg (ingestion)	Under 40 inch zone – based on climate variations throughout state
AK	0.1 mg/kg (migration to groundwater)	Under 40 inch zone - based on climate variations throughout state; Over 40 inch zone - based on climate variations throughout state
AK	4 mg/kg (ingestion)	Over 40 inch zone - based on climate variations throughout state
AZ	10 mg/kg	Statewide average background level
CO	40-250 ppm	Site-specific and based on risk assessment considerations
CT	10 ppm	Background
FL	0.8 mg/kg	1×10^{-6} acceptable cancer risk level using default exposure assumptions
IL	0.4 ppm	1×10^{-6} cancer risk; Tier 1 (baseline) cleanup level, which may be modified by site-specific information and/or exclusion of pathways of exposure
KS	11 mg/kg	Tier 2 number; 1×10^{-5} cancer risk per KAR 28-78-11
KY	0.14 mg/kg	Risk-based cleanup
ME	10 mg/kg	Direct contact risk to human health
MO	11 ppm	Any use level established by state health department
NH	12 ppm	Background
NJ	20 ppm	Based on background studies and the 95th percentile of background levels found at sites under review
NY	7.5 ppm	Background
OR	Site-specific	Risk-based or natural background if higher
TN	16 ppm	We use EPA's proposed RPI Guidance Levels and proposed subpart S Fed. Reg. 7-27, 1990, vol. 55 (only one level for sites – 16 ppm)
TX	20 ppm	Health-based policy level; can be lowered due to cross-media concerns
WA	20 ppm	Background - Note: proposed level of 7 ppm is under consideration

AGRICULTURAL

State	Level	Rationale
FL	Site-specific	1×10^{-6} acceptable cancer risk level using default exposure assumptions
MO	11 ppm	Deed restrictions and/or registry of the site is required if less than residential cleanup (11 ppm) is used
NH	12 ppm	Background
NJ	20 ppm	Based on background studies and the 95th percentile of background levels found at sites under review
OR	Site-specific	Risk-based or natural background if higher
TN	16 ppm	We use EPA's proposed RPI Guidance Levels and proposed subpart S Fed. Reg. 7-27, 1990, vol. 55 (only one level for sites – 16 ppm)

8. continued:

RECREATIONAL

State	Level	Rationale
CO	100-1000 ppm	Site-specific and based on risk assessment considerations
FL	Site-specific	1×10^{-6} acceptable cancer risk level using default exposure assumptions
MO	11 ppm	Deed restrictions and/or registry of the site is required if less than residential cleanup (11 ppm) is used
NH	12 ppm	Background
NJ	20 ppm	Based on background studies and the 95th percentile of background levels found at sites under review
OR	Site-specific	Risk-based or natural background if higher
TN	16 ppm	We use EPA's proposed RPI Guidance Levels and proposed subpart S Fed. Reg. 7-27, 1990, vol. 55 (only one level for sites – 16 ppm)

8. continued

b. If yes, are the cleanup levels:

The following 26 states replied: AK, AL, AZ, CA, CO, CT, FL, HI, IL, IA, KS, KY, ME, MI, MS, MO, NH, NJ, NM, NY, OH, OK, OR, SC, TX, WA

Note: NJ – because arsenic criteria are based on background and background is greater than the health based level, there is no need for criteria based on land use. Everything basically defaults to background.
NY – cleanup objectives are based on unrestricted use which is the starting point in determining soil cleanup levels on a site specific basis.

	Yes	**No**	**Don't know**	**Planned**
Tiered?	AK, AL, AZ, FL, IL, KS, ME[1], MI, NH, TX, WA	CT, KY, OH, OR, SC	MO, NM	IA
Based on current use?	AK, AL , AZ, CA, CO, FL, HI, IL, KS, KY, ME, MI, MS, NH, OK, OR, SC, TX, WA	CT, MO, OH	NM	IA
Based on future use?	AK, AL[2], AZ, CA, CO, FL, HI, IL, KS, KY, ME, MI, MS, MO, NH, OH[3], OK, OR, SC, TX, WA	CT	NM	IA
Based on groundwater considerations?	AK, AL[2], AZ, CA., CO[4], FL, IL, KS, ME, MI, MS, OK, OR, SC, WA	CT, HI, IA, MO, NH, OH[5],	NM	

[1] ME – we have a default level, a guide method for multiple contamination, and a full risk assessment option
[2] AL – non residential standards requiring contingent management standards.
[3] OH – residential or industrial; if industrial must be deed restricted.
[4] CO – sometimes based on groundwater considerations.
[5] OH – the cleanup standard given (4 ppm) was not based on any groundwater considerations; however, if groundwater is an issue at the site, the cleanup standard would be adjusted.

9. What regulations drive soil arsenic cleanup levels at contaminated sites? Check as many as apply.

The following 34 states replied: AK, AL, AR, AZ, CA, CO, CT, DE, FL, HI, IL, IA, KS, KY, ME, MD, MI, MS, MO, MT, NH, NJ, NM, ND, NY, OH, OK, OR, SC, TN, TX, VA, WA, WY

Note: DE – any combination of any regulatory agency listed below.
TN – RCRA and drinking water standards dictate guidance levels.
VA – risk-based, site-specific.

	Industrial	**Residential**	**Agricultural**	**Recreational**
CERCLA	AK, AL, AZ, CO, FL, HI, IL, IA, KS, KY, ME, MD, MI, MO, MT, NH, ND, NY, OH, OK, SC, TX, WA	AK, AL, AZ, CA, CO, FL, HI, IL, KS, KY, ME, MD, MI, MS, MO, MT, NY, OH, OK, SC, TX, WA	AK, AL, AZ, FL, HI, KY, ME, MI, MO, NY, OK	AK, AL, AZ, CO, FL, HI, KY, ME, MI, MO, MT, NY
TSCA	MI	MI, MS	MI	MI
RCRA	AK, AL, AR, AZ, CA, FL, IL, KS, KY, MI, MO, NH, NM, ND, OH, OK, SC, TX, WA, WY	AK, AL, AR, AZ, CA, FL, KS, KY, MI, MS, MO, NM, OH, OK, TX, WA, WY	AK, AL, AR, AZ, FL, KY, MI, MO, NM, OK, WY	AK, AL, AR, AZ, FL, KY, MI, MO, NM, WY
Drinking water standards	AK, AL, AR, AZ, CA, CO, FL, IL, KS, KY, ME, MD, MI, MO, MT, ND, NY, OH, SC, TX, WA, WY	AK, AL, AR, AZ, CA, CO, FL, IL, KS, KY, ME, MD, MI, MO, MT, ND, NY, OH, OK, SC, TX, WA, WY	AK, AL, AR, AZ, CA, FL, KY, ME, MI, MO, ND, NY, WY	AK, AL, AR, AZ, CA, CO, FL, KY, ME, MI, MO, MT, ND, NY, WY
Surface water standards	AK, AR, AZ, FL, KS, KY, ME, MD, MI, MT, ND, NY, OH, TX, WA, WY	AK, AR, AZ, FL, KS, KY, ME, MD, MT, ND, NY, OH, OK, TX, WA, WY	AK, AR, AZ, FL, KY, ME, ND, NY, OK, WY	AK, AR, AZ, FL, KY, ME, MT, ND, NY, OK, WY
State regulations	AK, AL, AR, AZ, CT, FL, IL, IA, KS, KY, ME, MD, MI, MO, MT, NH, NJ, NM, NY, OH, OK, OR, SC, TX, WA, WY	AK, AL, AR, AZ, CT, FL, IL, IA, KS, KY, ME, MD, MS, MO, MT, NH, NJ, NM, NY, OH, OK, OR, SC, TX, WA, WY	AK, AL, AR, AZ, FL, IA, KY, ME, MO, NH, NJ, NM, NY, OK, OR, WY	AK, AL, AR, AZ, FL, IA, KY, ME, MO, MT, NH, NJ, NM, NY, OK, OR, WY
County regulations				
Municipal regulations				
Other (please specifiy)				
Voluntary cleanup & property redevelopment program	KS	KS		

10. What other issues drive soil arsenic cleanup levels at contaminated sites? Check as many as apply.

The following 27 states replied: AL, AR, AZ, CA, CO, DE, FL, IL, IA, KS, KY, ME, MI, MS, MO, MT, NJ, ND, NY, OH, OK, OR, SC, TN, TX, WA, WY

Note: MI – depends on the specifics of the site in question.
TN uses their own Guidance Levels to drive cleanup levels.

	Industrial	**Residential**	**Agricultural**	**Recreational**
Legislative mandate	DE, FL, IL, IA, KS, KY, MO, NJ, OR, SC	DE, FL, IL, IA, KS, KY, NJ, OR	FL, IA, NJ, OR	FL, IA, NJ, OR
Action groups	DE, FL, KS, ND, SC	CA, DE, FL, KS, NY	FL, SC	CA, FL
Public concern/awareness	AZ, DE, FL, ME, MT, ND, OH, OK, SC, WY	AZ, CA, DE, FL, ME, MT, ND, NY, OH, OK, WY	AZ, FL, ME, OK, SC, WY	AZ, CA, FL, ME, MT, OK, WY
Groundwater pathway/ Leachability	AL, AR, AZ, CA, CO, DE, FL, IL, IA, KS, ME, MO, MT, ND, OH, OK, SC, TX, WA, WY	AL, AR, AZ, CA, CO, DE, FL, IL, KS, ME, MS, MT, ND, NY, OH, OK, TX, WA, WY	AL, AR, AZ, CA, FL, ME, OK, SC, WY	AL, AR, AZ, CA, FL, ME, MT, ND, OK, WY
Surface water pathway	AL, AR, AZ, CA, CO, DE, FL, KS, ME, MT, ND, OH, OK, SC, TX, WA, WY	AL, AR, AZ, CA, CO, DE, FL, KS, ME, MS, MT, ND, NY, OH, OK, TX, WA, WY	AL, AR, AZ, CA, FL, ME, OK, SC, WY	AL, AR, AZ, CA, FL, KY, ME, MT, ND, OK, WY
Wildlife criteria	AL, AR, AZ, FL, ME, OH, OK, SC, TX, WY	AL, AR, AZ, FL, ME, MS, NY, OH, OK, TX, WY	AL, AR, AZ, CA, FL, ME, OK, SC, WY	AL, AR, AZ, CA, CO, FL, ME, ND, OK, WY
Politics	CO, DE, FL, MO, OH, SC, WA	CA, CO, DE, FL, OH, WA	FL	CA, CO, FL
Other (please specify)				
State regulatory agencies		CO		CO

11a. Does your state have regulations similar to the US EPA's Part 503 regulations that govern the land application of biosolids derived from domestic wastewater sludges?

Yes **22** No **1** Don't know **11**

Yes- AK, AZ, CA, FL, HI, IL, IA, KY, MD, MI, MS, MO, NH, NJ, NM, NY, OK, OR, SC, TX, WA, WY
No- KS
Don't know- AL, AR, CO, CT, DE, ME, MT, ND, OH, TN

11b. If yes, do these regulations set arsenic levels in biosolids?

Yes **15** No **5** Don't know **8**

Yes- AK, AZ, CA, FL, HI, IA, MI, MO, NH, NJ, OR, SC, TX, WA, WY
No- IL, KY, MD, MS, NY
Don't know- AL, ME, MT, NM, ND, OH, TN

If yes:

a. What are the acceptable levels for arsenic in biosolids?

State	Acceptable levels for arsenic in biosolids
AK	Ranges from 30-73 mg/kg (dry weight basis) – depending on monofill conditions
AZ	Same as EPA – 75 mg/kg ceiling pollutant concentration, 41 kg/hectare (≈19 mg/kg) cumulative loading rate
CA	Proposed regulation of 200 mg/kg
FL	40 mg/kg
HI	Same as EPA's Part 503 regulations
IA	50 mg/kg
MI	Same as Part 503 - 41 mg/kg dry weight
MO	Same as EPA's
NH	Current standard is 75 mg/kg; proposed future standard is 32 mg/kg; both are based on dry weight
NJ	Same as presented in Part 503 regulations
OR	41 mg/kg monthly average and 75 mg/kg maximum
SC	41 mg/kg
TX	Ceiling concentration of 75 mg/kg (dry wt basis); monthly average sludge concentration of 41 mg/kg (dry wt basis)
WY	The standards are analogous to those in the Federal Regulations

11b. continued

b. How do these regulations interact with your state's soil arsenic cleanup requirements?

State	Interaction
AK	No interaction
AZ	Biosolids for application/cleanup levels for required remediations. Exceeding the application concentration does not trigger cleanup
CA	No interaction whatsoever
FL	Not consistent
IA	They do not
MI	Unable to answer
MO	No known interaction
NH	There is little interaction
NJ	No problem in the interaction noted
OR	They do not
SC	They are in line and acceptable as total metal concentrations
WY	Limited interaction since WY does not have soil arsenic cleanup requirements

SECTION III - REMEDIATION

12. Please indicate the types of soil arsenic remedial technologies that your state allows. Of those allowed, which have shown success (please indicate percent successful if appropriate)? Check as many as apply.

The following 30 states replied: AK, AL, AR, AZ, CA, CO, DE, FL, HI, IL, IA, KS, KY, MD, MI, MS, MO, MT, NH, ND, NJ, NY, OH, OK, OR, SC, TN, TX, WA, WY

Technology	Allowed	Successful	Unsuccessful
In situ soil washing	DE, IL, KY, MI, MS, MO, ND, OH, OR, TX, WA	MI	
Ex situ soil washing	AZ, CO, DE, FL, IL, KY, MI, MS, MO, ND, OH, OR, TX, WA	AZ, CO, MI (100%), OR	
Excavation/landfill disposal	AL (2), AZ, CA, CO, DE, FL, IL, KS, KY, MD, MI, MS, MO, MT, NH, ND, NY, OH, OK, OR, SC, TX, WA, WY	AL (2), AZ, CA, CO, DE, FL, KS, KY, MI (100%), MT, NH, NJ, NY, OH, OK, OR, SC, TX, WY	
Electrokinetics	DE, FL, IL, KY, MI, MS, MO, ND, OH, OR, TX, WA	MI (has not been tried yet)	
Phytoremediation	DE, FL, IL, KY, MI, MS, MO, ND, OH, OR, TX, WA	MI (red stage only)	
Stabilization	AL (1), AZ, DE, FL, IL, KS, KY, MI, MS, MO, MT, ND, NY, OH, OK, OR, SC, TX, WA	AL (1), AZ, DE, FL, MI (100%), MT, NJ, NY, OH, OK, OR, SC	
Vitrification	AZ, DE, FL, IL, KY, MI, MS, MO, MT, ND, OH, OR, TX, WA	AZ, MI (100%), MT	
Other (please specify)			
Cover to mitigate	CO	CO	
Direct exposure	CO		
Phosphate amendment	CO		
Capping/Slurry wall	FL, IA, TX	FL, IA, TX	
Soil dilution	MT	MT	

12. continued

State	Comment
AK	In my experience, arsenic has not driven any cleanups; any of the below (technologies) could be considered
AL	None are specifically disallowed; selection is site-specific
AR	Determined on case-by-case basis during Feasibility Studies
DE	Phytoremediation is under consideration on current site
HI	HI will consider any technology but effectiveness must be shown
IL	There is no prohibition on remedial technologies, but demonstrations of effectiveness may be required
KS	Would consider any technology provided it met acceptable criteria
MO	Technologies used are considered on a site specific basis. Compliance with cleanup goals, cost and implementability are considered. Unaware of any regulations that prohibit use of any specific technology.
NJ	Allow available technology once it is determined to be appropriate and feasible at a site.
OH	Only RCRA closure program has had experience with removal/excavation or landfill disposal of arsenic contamination above background levels or risk-based standards, whichever is applicable.
TN	All technologies would be considered on a site specific basis.
WA	A lot has been tried with varying degrees of success.

13. Can reducing exposure (e.g., prevention of possible exposure via restricted access or barriers such as pavement) impact cleanup activities?

Yes **30** No **1** Don't know **1**

Yes- AK, AL, AR, AZ, CA, CO, DE, FL, HI, IL, IA, KS, KY, ME, MD, MI, MS, MO, MT, NH, ND, NJ, NY, OH, OK, OR, SC, TN, TX, WA
No- WY
Don't know- NM

If yes, is an institutional control (e.g., deed restriction, deed notification) required? If yes, please specify what type.

Yes **27** No **1** Don't know **3**

Yes- AK, AL, AR, AZ, CA, CO, DE, FL, IL, IA, KS, KY, ME, MD, MI, MS, MO, MT, NH, NJ, NY, OH, OK, OR, SC, TX, WA
No- HI
Don't know- NM, ND, TN

State	
AK	Restriction or notification depending upon site factors could be applied
AL	Deed restriction (RCRA)
AR	Dependent on site specific conditions whether a restriction or notification is warranted
AZ	A legal mechanism such as post-closure permit or deed restriction
CA	Restriction which accompanies title to property
CO	Barriers must be maintained via legal mechanisms (unsure of extent of mechanisms)
FL	Deed restriction, deed notification, record in books of public record
IL	Restrictions on property use and/or groundwater use are included in "No Further Remediation" letter, and must be filed with county recorder
IA	Per proposed rules only - environmental easement granted to the state
KS	Groundwater use, fencing, land-use
KY	Deed restriction if waste left in-place
ME	We prefere deed restriction/notices
MI	Deed restrictions
MS	Deed restrictions
MO	The property would be placed on MO Registry of Contaminated Sites; this also contains requirements for notification of prospective buyers, state approval for change of use and notices in the property chain of title
MT	Currently in process – will probably be a deed restriction
NH	Activity and use restriction placed in the deed
NJ	Deed notice
OH	Deed restriction
OK	Notice to deed
OR	Deed restriction of use of property
SC	Land use restriction
TX	Deed notification is required by the state; deed restriction may be requested by the property owner where wastes are to be left on site

SECTION IV – ANALYTICAL

14a. What analytical methods for soil arsenic detection does your state require? Use? Allow? Check as many as apply.

The following 29 states replied: AK, AL, AZ, CA, CO, DE, FL, HI, IL, KS, KY, ME, MD, MI, MS, MO, MT, NH, NM, ND, NY, OH, OK, OR, SC, TN, TX, WA, WY

Note: AL: any that are appropriate SW-846 methods;
TN: any appropriate SW-846 Method;
WY: no specific requirements.
NH: 7060A is preferred; data from other appropriate SW846 methods will be accepted

Instrumental Analysis Method	**Required**	**Used**	**Allowed**
US EPA SW-846 Method 6010 (ICP-AES)		AZ, CA, CO, DE, FL, KS, ME, MD, MT, NJ, ND, NY, OH, OK, OR, TX, WA	AK, CA, CO, DE, FL, HI, IL, KS, ME, MD, MI, MS, NM, ND, NJ, NY, OH, OR, TX
US EPA SW-846 Method 6020 (ICP-MS)		AZ, CA, CO, DE, FL, KS, ND, NY, OK, TX, WA	AK, CA, CO, DE, FL, HI, IL, KS, ME, MD, MI, MS, NM, ND, NJ, NY, OH, OR, TX
US EPA SW-846 Method 7060A (AA, furnace technique)	NH	AZ, CA, CO, DE, FL, KS, KY, ME, MD, MO, MT, NH, NJ, OH, OK, OR, TX, WA	AK, CA, CO, DE, FL, HI, IL, KS, ME, MD, MI, MS, NM, ND, NJ, OH, OR, SC, TX
US EPA SW-846 Method 7061A (AA, gaseous hydride)		AZ, CA, CO, DE, FL, KS, NY, OH, TX, WA	AK, CA, CO, DE, FL, HI, IL, KS, ME, MD, MI, MS, NM, ND, NJ, NY, OH, OR, SC, TX
US EPA SW-846 Method 7062 (AA, gaseous borohydride)		CO, DE, FL, KS, NY, OH	AK, CO, DE, FL, HI, IL, KS, ME, MI, MS, NM, ND, NJ, NY, OH, OR
US EPA SW-846 Method 7063 (anode stripping voltametry)		DE, KS, NY, OH	AK, DE, HI, IL, KS, ME, MS, NJ, NM, ND, NY, OH, OR
Other (please specify)			
Water Methods 200.7		IL	
US EPA SW-846 Method 6010B	SC		

14a. continued

Extraction/Digestion Method	Required	Used	Allowed
US EPA SW-846 Method 3050	KY, NH, OK	CA, CO, DE, FL, IL, KS, MD, NH, NJ, NY, TX	AK, CA, CO, DE, FL, HI, IL, KS, MD, MI, MS, NM, ND, NJ, NY, OH, OR, TX
US EPA SW-846 Method 3050B		CA, CO, DE, KS, MD, NJ, NY, OR, TX	AK, CA, CO, DE, HI, IL, KS, ME, MD, MI, MS, NM, ND, NJ, NY, OH, OR, SC, TX
US EPA SW-846 Method 3051		CA, CO, DE, FL, KS, NJ, NY, OR, TX	AK, CA, CO, DE, FL, HI, IL, KS, MI, MS, NM, ND, NJ, NY, OH, OR, SC, TX
US EPA SW-846 Method 3051A	OK	CA, CO, DE, FL, MO, TX	AK, CA, CO, DE, FL, HI, IL, ME, MI, MS, NM, ND, OH, TX
US EPA SW-846 Method 3052		CA, CO, DE, FL, KS, NJ, NY	AK, CA, CO, DE, FL, HI, IL, KS, ME, MI, MS, NM, ND, NJ, NY, OH, OR, SC
Other (please specify)			
WET (Waste Extraction Test, CA Code of Regulations)Title 22, ch. 11, Article 5, Appendix 11	CA		
TCLP (as developed by CA)	CA		
US EPA SW-846 Method 3050A		IL	
State derived method based on SW-864 Method 3050A		IL	
Method 1311	SC		

14b. Has your state compared the recoveries obtainable from each method? If yes, please specify.

Yes **3** No **15** Don't know **10**

Yes- CA, DE, FL
No- AK, HI, KS, KY, ME, MI, MS, MO, NH, NY, OH, OK, OR, TX, WY
Don't know- AL,AZ, IL, IA, MT, ND, NJ, SC, TN, WA

State	
CA	WET test vs others
DE	Required by all laboratories as part of approval process to perform work under HSCA
FL	It is being done by the University of Florida
MI	The recoveries obtainable from each method have been compared by the EPA

Definitions
PQL: practical quantitation limit.
MDL: method detection limit.

15. Are MDLs or PQLs specified in the analytical methods used by your state for soil arsenic?

Yes **18** No **5** Don't know **6**

Yes- AK, AZ, CA, DE, IL, KS, KY, MI, MS, NH, NJ, NY, OH, OK, OR, SC, TX (laboratory specified; values below are generally used), WA
No- CO, FL, HI, IA, ME
Don't know- AL, MO, MT, NM, ND, TN

If yes: a. What MDL and PQL values are used?

Instrumental Analysis Method	**MDL**	**PQL**
US EPA SW-846 Method 6010 (ICP-AES)	5 ppm (NY) 0.2 mg/kg (OR) 2.5 ppm (WA soil)	25 ppm (WA soil) 50 µg/L (TX)
US EPA SW-846 Method 6020 (ICP-MS)	5 ppb (MI) 40 ppb (NY)	1 ppm (NY) 20 µg/L (TX)
US EPA SW-846 Method 7060A (AA, furnace technique)	0.015 mg/kg (KY) 5 ppb (MI) ≅ 200 µg/kg (MO) 1 mg/kg (NH) 0.5 mg/kg (OR) 0.05 ppm (WA soil)	0.1 ppm (IL) ≅ 500 µg/kg (MO) 0.5 ppm (WA soil)
US EPA SW-846 Method 7061A (AA, gaseous hydride)	5 ppb (MI) 0.1 ppm (WA soil)	1 ppm (WA soil) 5 µg/L (TX)
US EPA SW-846 Method 7062 (AA, gaseous borohydride)	5 ppb (MI)	
US EPA SW-846 Method 7063 (anode stripping voltametry)	5 ppb (MI)	
Other (please specify)		
IL Method 200.7	2.0 ppm (IL)	
Groundwater 7061	2 ppb (WA)	20 ppb (WA)
Groundwater 6010	53 ppb (WA)	530 ppb (WA)

Extraction/Digestion Method	**MDL**	**PQL**
US EPA SW-864 Method 3050	0.015 mg/kg (KY) 5 ppb (MI) < 0.5 mg/kg (NH)	
US EPA SW-864 Method 3050B	5 ppb (MI)	
US EPA SW-864 Method 3051	5 ppb (MI)	
US EPA SW-864 Method 3051A	5 ppb (MI)	
US EPA SW-846 Method 3052		
Other (please specify)		

15a. continued:

State	What MDL and PQL values are used?
AK	As specified by EPA method
AL	40CFR264 App. IX
AZ	MDLs from SW-846; PQLs established by lab when applying for licensure through AZ Dept. of Health Services
CA	Based upon statistical calculation of replicate sample matrix spikes. CA maintains a large hazardous materials laboratory to advise on MDL & PQL for individual matrices.
DE	MDLs are laboratory specific; PQLs are laboratory specific from HSCA samples.
IA	Will be developed under proposed rules
MO	Indicated 'don't know' but gave values in 15a
MS	MDLs are in each of the EPA methods and PQLs are media specific
NJ	All analytical work must be generated by a certified lab. Lab regulations require the lab to develop method specific and instrument specific MDLs. For the PQL's, the DEP uses what ever the method states
NY	MDLs and PQLs are not required for sample preparation
OH	MDLs for RCRA; MDLs vary - method and instrument specific; PQLs are 5 to 10 times MDL
OK	Depends on the lab
SC	Uses SW-846 Methods 6010 and 1311 for MDLs

b. How were the MDL and PQLs derived?

The following 13 states replied: DE, IL, KS, KY, MI, MS, MO, NH, NY, OH, OR, SC, TX

State	MDL Derivation
DE	Federal Register outlined
IL	By laboratory
KS	40 CFR 136 App. B
KY	40 CFR 136 App. A
MI	Survey of MI labs and published methods – to meet risk-based levels
MS	EPA method, EPA derivation -- see methods
MO	CFR 40 MDL calculation derives what can be seen in a matrix; we take this value and multiply by the appropriate dilution factors to convert to µg/kg
NH	State lab sets an estimated quantitation limit based on available analytical literature
NY	Actual MDLs are sample dependent and may vary as the matrix varies.
OH	SW-846 Chapter 3, Inorganic Analytes
OR	As specified in 40 CRF Part 136 App. B
SC	Spike sample analyzed at reporting level method 200.7 EPA Drinking Water
TX	Should be determined using protocol in 40CFR Part 136, App B, and include the optional step 7 to verify the reasonableness of the calculated MDL

15b. continued:

State	PQL Derivation
DE	HSCA samples
IL	From SW-846
KS	40 CFR 136 App. B
MS	EPA method, EPA derivation – see methods
MO	CFR 40 MDL calculation derives what can be seen in a matrix; we take this value and multiply by the appropriate dilution factors to convert to µg/kg
NY	Quantitation limits are set at the concentrations equivalent to the concentration of the lowest calibration standard
TX	Should be equal to or greater than the lowest non-zero standard in the calibration curve

16a. Does your state have any regulatory definitions for MDL or PQL? If yes, please specify:

Yes **12** No **12** Don't know **6**

Yes- AK, DE, FL, IL, MI, NJ, NY, OH, OR, SC, TX, WA
No- CA, CO, HI, IA, KS, KY, ME, MS, NH, ND, OK, WY
Don't know- AL, AZ, MO, MT, NM, TN

State	
DE	Outlined SOPCAP of HSCA
FL	FAC Chapter 62-4; MDL = smallest concentration of an analyte that can be measured and reported with 99% confidence that the concentration will be greater than zero; PQL = lowest level that can be reliably achieved during routine laboratory operative conditions within specified limits of precision and accuracy
IL	ADL (Acceptable Detection Limit) = the detectable concentration of a substance which is equal to the lowest appropriate Practical Quantitation Limit (PQL); PQL = Practical Quantitation Limit or estimated quantitation limit which is the lowest concentration that can be reliably measured within specified limits of precision and accuracy for a specified laboratory analytical method during routine laboratory operating conditions in accordance with "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods" (EPA SW-846). When applied to filtered water samples, PQL includes the method detection limit or estimated detection limit in accordance with the applicable method revision in "Methods for the Determination of Organic Compounds in Drinking Water, Supplement II" (EPA/600/4-88/039), and "Methods for the Determination of Organic Chemicals in Drinking Water, Supplement III" (EPA/600/R-95/131).
MI	CFR 40 Part I36 Appendix B
NJ	PQL's are specified for individual compounds in the groundwater quality standards (GWQS). MDL's are specified in the state lab. Certification regulations.
NY	MDL = the amount of material necessary to produce a detector response that can be identified and reliably quantified; these numbers are not absolute detection limits; actual MDLs are sample dependent and may vary as the matrix varies. PQL = quantitation limits set at the concentration equivalent to the concentration of lowest calibration standard. NOTE: the moisture content of the soil samples is not considered in the MDL or PQL/CRQL calculation; however, soil sample results for arsenic are required to be reported corrected for moisture content.
OH	Same definition as in SW-846 and RAGS
OR	Consistent with 40 CER 136 App. B
SC	Standard methods
TX	30 TAC 335 Subchapter S defines PQL as the concentration of an analyte which can be reliably quantified within specific limits of precision and accuracy during routine laboratory operating conditions
WA	May be used; too complicated to explain here

16b. Has your state conducted any independent testing to determine MDLs and PQLs for soil arsenate or other analytes? If yes, please specify:

Yes 4 No **17** Don't know **8**

Yes- CA, DE, FL, OR
No- AK, CO, HI, IA, KS, KY, MI, MS, MO, NH, ND, NY, OH, OK, SC, TX, WY
Don't know- AZ, IL, ME, MT, NJ, NM, TN, WA

State	
CA	Routinely done by the CA Hazardous Materials Laboratory
OR	Precision and accuracy testing with other national, state and private labs

Definitions
TCLP: Toxicity Characteristic Leaching Procedure.
SPLP: Synthetic Precipitation Leaching Procedure.

17a. Does your state use the TCLP or SPLP procedure to evaluate the leaching potential of arsenic in soils? If yes, please specify:

Yes **31** No **1** Don't know **0**

Yes- AK, AL, AR, AZ, CA, CO, DE, FL, HI, IA, IL, KY, ME, MD, MI, MO, MS, MT, ND, NH, NJ, NM, NY, OH, OK, OR, SC, TN, TX, WA, WY
No- KS

Procedure	State
TCLP	AL, CA, KY, ME, MO, MS, MT, ND, NM, NH, NY, SC, WA
SPLP	
TCLP & SPLP	AK, AR, AZ, CO, FL, IL, MI, NJ OH, OK, OR, TX
Not specified	DE, HI, MD, TN, WY

State	
AZ	Guidance for determining potential impacts to groundwater relies on relationship between total metals concentration and leachable fraction using TCLP or SPLP
CO	Definition of hazardous waste (TCLP) and to simulate rainfall leaching (SPLP)
HI	For RCRA disposal of hazardous wastes
IA	For evaluating "special waste authorization" to landfills only
IL	Both methods are allowed, resulting aqueous concentration is compared directly with the groundwater standard or health advisory concentration
MD	Used to determine if a waste can be classified as "hazardous"
NH	TCLP is used for RCRA disposal of hazardous waste decisions
NJ	TCLP is used for disposal classification. SPLP is one of the options used to determine a site specific impact to groundwater criteria.
OH	TCLP for waste analysis purposes and for determining potential leachability of contaminated soil' SPLP for voluntary action program sites
OK	TCLP usually, occasionally SPLP
OR	Either method depending on objective of analysis
TN	On a site specific basis to determine potential to impact groundwater
TX	TCLP for disposal; SPLP for soils to be left in place
WA	TCLP has been used although not a requirement

17b. If your state does not use the TCLP or SPLP procedure, are other procedures used? If yes, please specify:

Yes 8 No 3 Don't know 2

Yes- CA, DE, FL, KS, NH, NJ, OK, WA
No- IA, MO, OH
Don't know- NM, TN

State	
CA	The WET test
DE	Developed procedure of all pH levels to determine the leachability of lead, arsenic oxides in a stabilization process
FL	Partition equations, etc.
KS	Various models approved by KDHE that are public domain
NH	EP toxicity test is used for hazardous waste disposal
NJ	Modeling using SESOIL is an option; other models proposed by RPs will be evaluated
OK	Did not specify
WA	Batch tests (desorption)

18. Does your state have any policies or regulations that prohibit the regulation of soil contaminants like arsenic at or below the MDL or PQL? If yes, please specify

Yes **10** No **13** Don't know **8**

Yes- FL, DE, IA, IL, MS, NH, NJ OH, OK, TX
No- AK, AZ, CO, HI, IA, KY, MI, ND, NY, OR, SC, WA, WY
Don't know- AR, CA, KS, ME, MO, MT, NM, TN

Note: IA proposed rules only

State	
FL	62-770 and 62-785 FAC
DE	Remediation standards are above the PQL; client may use formal risk-based approach if they so choose
IL	If a risk-based remediation objective is less than the Acceptable Detection Limit (ADL)[1], then the ADL becomes the remediation objections
MI	Criteria defaults to MDL
MS	We have specific guidance which allows for the MDL to be considered but not the PQL
NH	Risk-based standards are not set below MDL's. Arsenic background is above the MDL so this does not drive the risk based cleanup level for arsenic.
NJ	GWQS specify the use of the higher of the PQL or the human health based criteria. The policy for soil is to use the PQL, if the human health based criteria is less than the PQL. For arsenic, this is irrelevant due to the background arsenic levels.
OH	We do not regulate below the MDL; below the MDL is considered clean
OK	Cleanup levels will not be set below PQLs
TX	30 TAC 335 specifies if the cleanup level or background concentration is less than the PQL, then the PQL becomes the cleanup level

[1]ADL = the detectable concentration of a substance which is equal to the lowest appropriate practical concentration limit (PQL).

19. Does your state have a special sampling protocol/procedure for heavy metals in soils? If yes, please specify.

Yes **9** No **17** Don't know **4**

Yes- CA, CO, DE, KY, ME, MS, MT, OK, SC
No- AK, AZ, FL, HI, IA, KS, MI, MO, NH, NJ, ND, NY, OH, OR, TX, WA, WY
Don't know- AR, IL, NM, TN

Note: OH only requires representative samples

State	Sampling Protocol/Procedure
CA	Defined in "HML Users Manual" Section 3.4, Revision 7, Dec. 31, 1993
CO	Protocols require collection of surface soil samples 0-2 in and sieving of soil to <250 um fraction
DE	SOPQAP and QAPP (Quality Assurance Project Plan)
KY	SOP for state personnel
ME	Based on guidance from EPA/SW846 Methods
MS	Allow for the use of an EPA developed protocol/procedure
MT	Several site specific protocols/procedures
OK	Depends on site and type of contamination
SC	SOP's based on Region IV EPA SOPQAM

SECTION V - RISK ASSESSMENT

20. For risk assessment purposes, what value does your state use for soil ingestion?

The following 24 states replied: AK, AL, AZ, CA, CO, FL, IL, IA, KS, KY, ME, MD, MI, MS, NH, NJ, NY, OH, OK, OR, SC, TX, VA, WA, WY

	Industrial		Residential		Agricultural		Recreational	
State	**Child**	**Adult**	**Child**	**Adult**	**Child**	**Adult**	**Child**	**Adult**
AK			4 mg/kg [1]					
AR	200 mg/d	50 mg/d	200 mg/d	100 mg/d	200 mg/d	50-100 mg/d	200 mg/d	50-100 mg/d
AZ		50 mg/d(non-residential)	200 mg/d	100 mg/d				
CA	NA	50 mg/d	200 mg/d	100 mg/d	NA	480 mg/d	Site specific	Site specific
CO	NA	50 mg/kg/d	200 mg/kg/d	100 mg/kg/d	Site specific	Site specific	Site specific	Site specific
FL		50 mg/d	200 mg/d (aggregate)					
IL	NA	50/480 mg/d [2]	200/114 [3]	NA				
IA		50 mg/d	200 mg/d	100 mg/d				
KS	NA	38	11	11				
KY		0.85 mg/kg		0.14 mg/kg				
ME	100 mg/d	50 mg/d	200 mg/d	100 mg/d	Site specific	Site specific	Site specific	Site specific
MD		50 mg	200 mg	100 mg				
MI		50 mg/d	200 mg/d	100 mg/d				
MS			200 mg/d	100 mg/d				
NH	200/100 mg/d [4]	100 mg/d	200/100 mg/d	100 mg/d	200/100 mg/d	100 mg/d	200/100 mg/d	100 mg/d
NJ		100 mg/d	200 mg/d		Site specific	Site specific	Site specific	Site specific
NY		~34 mg/d	~68 mg/d	~10 mg/d	Site specific; ~68 mg/d default	Site specific; ~10 mg/d default	Site specific; ~68 mg/d default	Site specific; ~10 mg/d default
OH	Not considered	Site specific (~9 mg/kg)	Site specific (~4 mg/kg)	Site specific (~4 mg/kg)			Site specific (~4 mg/kg)	Site specific (~4 mg/kg)
OK	NA	50 or 480	200	100	100	50	100	50
OR	NA	50 mg/d	200 mg/d	100 mg/d	Site specific	Site specific	Site specific	Site specific
SC	1.9 mg/kg	3.8 mg/kg	0.022 mg/kg	0.043 mg/kg				
TX		50 mg/day	200 mg/day	100 mg/day				
VA	Site specific	Site specific	Site specific	Site specific	Site specific	Site specific	Site specific	Site specific
WA		50 mg/d		200 mg/d				
WY	Not established	Not est.	Not est.	Not est.	Not est.	Not est.	Not est.	Not est.

NA = not applicable
[1] AK applies this value to both children and adults based on childhood exposure
[2] 50 mg/d for industrial/commercial workers, 480 for construction/emergeney repair workers
[3] 200 for non-carcinogens, 114 (mg-y)/(kg-d) for eareinogens
[4] 200 mg/d for children aged 2-6 yr; 100 mg/d for children aged 7-16 yr

If other (e.g., pica children), please specify

State	Other
AL	AL uses Superfund RAGS & RCRA Guidance
AR	Site specific conditions could warrant greater or lesser levels being used. Age-adjusted ingestion factor for soils 114 (mg.yr)/(kg.dy)
AZ	Allow site specific risk assessment option
FL	Residential aggregate value of 120 mg/d
ME	ME considers both children < 6 (200 mg/d) and children 6-18 (100 mg/d) as well as adults in risk assessments
MD	Construction workers = 480 mg; trespassers = 100 mg
NJ	NJ follows EPA guidance
NY	Acute soil ingestion by children = 1g/d
OH	Do not generally consider pica children/other sensitive subpopulations in RCRA program. Use RME values

21. Does your state take into consideration oral bioavailability for soil arsenic in the risk assessment process?

Yes **10** No **15** Don't know **6**

Yes- AZ, CA, CO, IL, KS, MI, NY, OK, TX, WY
No- AK, AR, FL, HI, IA, KY, ME, MD, MS, NH, NJ, OH, OR, SC, WA
Don't know- AL, MO, MT, NM, TN, VA

If yes:
a. What value is used?
b. How was this value derived?

State	Value	Derivation
AZ	Site specific	Site specific
CA	Varies	Site specific experiments on soils
CO	10-80%	Site specific in vivo bioavailability studies or extrapolation from geochemical speciation data
IL	Site specific	Must be derived as part of a site specific risk assessment
KS	100%	Risk Assessment Guidance for Superfund; OSWER Guidance
KY	100%	
MI	50%	By promulgated rule
NY	100%	Default
OK	Varies	Depends on testing of waste
TX	Site specific	Site specific
WY	Not available	Not available

[1]NY will consider alternative value if supported by site specific data
[2] OH only considers oral bioavailability when looking at oral absorption values for estimating dermal exposures (i.e., for calculating absorbed doses); in those cases an oral absorption value of 98% is used based on ATSDR tox profile.

22a. In the risk assessment process, what measurement does your state use for surface depth in your exposure evaluations?

22b. How were these surface depths selected (e.g., professional judgment, state policy)?

The following 26 states replied: AK, AR, AZ, CA, CO, FL, HI, IL, IA, KS, KY, MD, ME, MI, MO, MS, MT, NH, NJ NY, OH, OK, OR, SC, TX, WA, WY

Please note: AL uses RAG and Region 4 CA Guidance, AZ uses 1-2 ft for Non-Residential sites, based on professional judgment; SC normally uses surface soils unless information exists that contamination may be deeper or in groundwater.

INDUSTRIAL

State	<1 foot	1 – 2 feet	>2 feet	Other (please specify)	How depths selected
AK				15 ft	Based upon conservative construction practices
AR	X				Professional judgment
AZ		X			Professional judgment
CA		X			Professional judgment
CO				0-2 in or 0-2 cm	Professional judgment
FL				0-2 ft	Professional judgment, state policy
HI	X				Professional judgment
IL				Site specific up to 3 ft	Based on known or anticipated use
IA				< 2 ft	Professional judgment
KS	X	X			Professional judgment
KY	X				Regional policy
MD	X	X		Also site-by-site basis	Professional judgment
ME				Site specific	If < 8-10 ft, excavation controls required
MI	X				Professional judgment
MO				0-2 ft	Professional judgment
MT				0-2 in	SOP (per Clark Fork Basin SAP)
NH				Site specific	State policy
NJ	X			0-6 in	State policy (technical requirements for site remediation)
NY	X				Professional judgment
OH	X				State policy
OK	X			Construction depth	Consultation with EPA
OR				3 ft	Professional judgment
SC	X	X			Professional judgment
TX				< 2 ft	State rule
WA				15 ft	Assumed depth of basement
WY	X				Professional judgment

22a and b continued:

22a. In the risk assessment process, what measurement does your state use for surface depth in your exposure evaluations?

22b. How were these surface depths selected (e.g., professional judgment, state policy)?

RESIDENTIAL

State	<1 foot	1 – 2 feet	>2 feet	Other (please specify)	How depths selected
AK				15 ft	Based upon conservative construction practices
AR	X				Professional judgment
AZ		X			Professional judgment
CA		X	X		Professional judgment
CO				0-2 in or 0-2 cm	Professional judgment
FL				0-2 ft	Professional judgment, state policy
HI	X				Professional judgment
IL				Site specific up to 3 ft	Based on known or anticipated use
IA				< 2 ft	Professional judgment
KS	X	X			Professional judgment
KY	X				Regional policy
MD	X	X		Also site-by-site basis	Professional judgment
ME				8-10 ft	8-10 ft excavation requirement for new construction – due to frost
MI	X				Professional judgment
MO				0-2 ft	Professional judgment
MS				0-2 ft ingestion; 2-14 ft ingestion or protection of groundwater	State policy
MT				0-2 in	SOP (per Clark Fork Basin SAP)
NH				Site specific	State policy
NJ	X			0-6 in	State policy (Technical requirement for site remediation)
NY	X				Professional judgment
OH	X				State policy
OK	X	X			Consultation with EPA
OR				3 ft	Professional judgment
SC	X	X			Professional judgment
TX				< 2 ft	State rule
WA				15 ft	Assumed depth of basement
WY	X				Professional judgment

22a and b continued:

22a. In the risk assessment process, what measurement does your state use for surface depth in your exposure evaluations?

22b. How were these surface depths selected (e.g., professional judgment, state policy)?

AGRICULTURAL

State	<1 foot	1 – 2 feet	>2 feet	Other (please specify)	How depths selected
AK				15 ft	Based upon conservative construction practices
AR		X			Professional judgment
CA		X	X		Professional judgment
CO				0-2 in or 0-2 cm	Professional judgment
FL				0-2 ft	Professional judgment, state policy
HI	X				Professional judgment
IL				Site specific up to 3 ft	Based on known or anticipated use
ME				8-10 ft Site specific	Considered a subset of residential
MO				0-2 ft	Professional judgment
NH				Site specific	State policy
NJ	X			0-6 in	State policy (Technical requirements for site remediation)
NY	X				Professional judgment
OK	X	X	X		Consultation with EPA
OR				3 ft	Professional judgment
SC	X	X			Professional judgment
WA				15 ft	Assumed depth of basement
WY	X				Professional judgment

22a and b continued:

22a. In the risk assessment process, what measurement does your state use for surface depth in your exposure evaluations?

22b. How were these surface depths selected (e.g., professional judgment, state policy)?

RECREATIONAL

State	<1 foot	1 – 2 feet	>2 feet	Other (please specify)	How depths selected
AK				15 ft	Based upon conservative construction practices
AR	X				Professional judgment
CA		X			Professional judgment
CO				0-2 in or 0-2 cm	Professional judgment
FL				0-2 ft	Professional judgment, state policy
HI	X				Professional judgment
IL				Site specific up to 3 ft	Based on known or anticipated use
MD	X	X		Also site-by-site basis	Professional judgment
ME				Site specific	If < 8-10 ft, excavation controls required
MO				0-2 ft	Professional judgment
MT				0-2 in	SOP (per Clark Fork Basin SAP)
NH				Site specific	State policy
NJ	X			0-6 in	State policy (Technical requirements for site remediation)
NY	X				Professional judgment
OH	X				State policy
OK	X				Consultation with EPA
OR				3 ft	Professional judgment
SC	X	X			Professional judgment
WA				15 ft	Assumed depth of basement
WY	X				Professional judgment

23a. In the risk assessment process, what does your state consider to be the acceptable carcinogenic risk level for individual carcinogens?

The following 28 states responded: AK, AL, AR, AZ, CA, CO. FL, HI, IL, IA, KS, KY, MD, ME, MI, MO, MS, MT, NH, ND, NY, OH, OK, OR, SC, TX, WA, WY

Acceptable level	**State**
1×10^{-4}	KS (if only carcinogen-of-concern)
1×10^{-4} to 1×10^{-6}	AL (tiered), AR[2], CA, CO, HI
1×10^{-5}	AK[1], AZ (class B & C carcinogens), MD, ME (ILCR), MI, OH, WA (industrial)
1×10^{-5} to 1×10^{-6}	OK
1×10^{-6}	AZ (class A carcinogens), FL, IL, IA[3], MO, MS, MT, NH (ELCR)[4], NJ, ND, OR, TX, WA (residential), WY
Other	KY (0.14 mg/kg), NY (case-by-case basis), SC (site specific background levels)

[1] AK with screening at 1×10^{-6}
[2] AR range varies if Class A or B carcinogens are present (i.e., 1×10^{-5} to 1×10^{-6})
[3] IA per proposed rule only
[4] NH: 1×10^{-5} risk assessment, 1×10^{-6} look-up tables

23b. Does your state have an acceptable level for cumulative risk? If yes, please define:

Yes **22** No **4** Don't know **5**

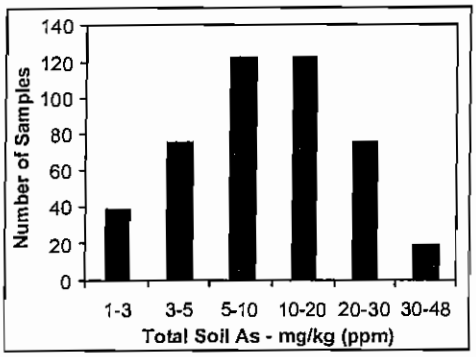
Yes- AK, AR, AZ, CA, FL, HI, IL, KS, KY, MD, ME, MI, MS, NH, OH, OK, OR, SC, TX, VA, WA, WY
No- IA, ND, NJ, NY
Don't know- CO, MO, MT, NM, TN

Acceptable level for carcinogens	**State**
1×10^{-4}	CA, HI[1], KS, TX[2]
1×10^{-4} to 1×10^{-6}	AZ, IL, MD, MS, VA
1×10^{-5}	AK, AR, MI,[3] NH (ELCR), OH, OR
$\leq 1 \times 10^{-5}$	ME
1×10^{-6}	FL, WY
$< 1 \times 10^{-6}$	KY
Other	SC[4]

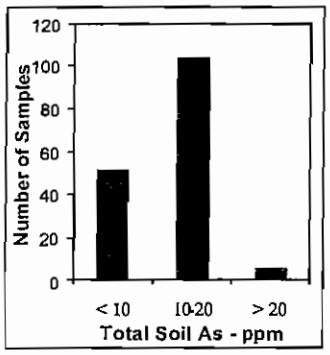
[1] HI: site specific but no greater than 1×10^{-4}
[2] TX: for multiple contaminants
[3] MI: for chemicals known to result in toxicological interactions
[4] SC: see 40 CFR 503, Feb. 19, 1995, p. 9392

Acceptable level for non-carcinogens	**State**
HI = 1	AR
HI ≤ 1	FL, KS, VA, NH
HI < 1	OK, WA

a better perspective on soil As levels, but it is clear that there is cause for concern from both agricultural sustainability and human health perspectives.



US-AID, 2002 study



Shah et al. 2004

Establishment of soil As limits based on the potential for leaching to groundwater is not very developed. Wenzel et al., (2002) derived upper limits of ~200 and 1000 ppm total soil As for protection of groundwater at the 10 and 50 ppb As levels, respectively, in Austria. The USA EPA uses a "toxicity characteristic leaching procedure" (TCLP) to determine the As leaching potential of potential hazardous wastes, including contaminated soils. This procedure uses a dilute acid extraction with a 1:20 soil to solution ratio and concentrations of As > 5 ppm in the extracting solution indicate that the soil requires remediation. A soil can only fail this test when its total As level greater than 100 ppm. These studies suggest that leaching of As from soils to groundwater is unlikely to be a problem in Bangladesh. However, leaching of As from flooded and reduced paddy soils has been little studied (A. Khan, this symposium).

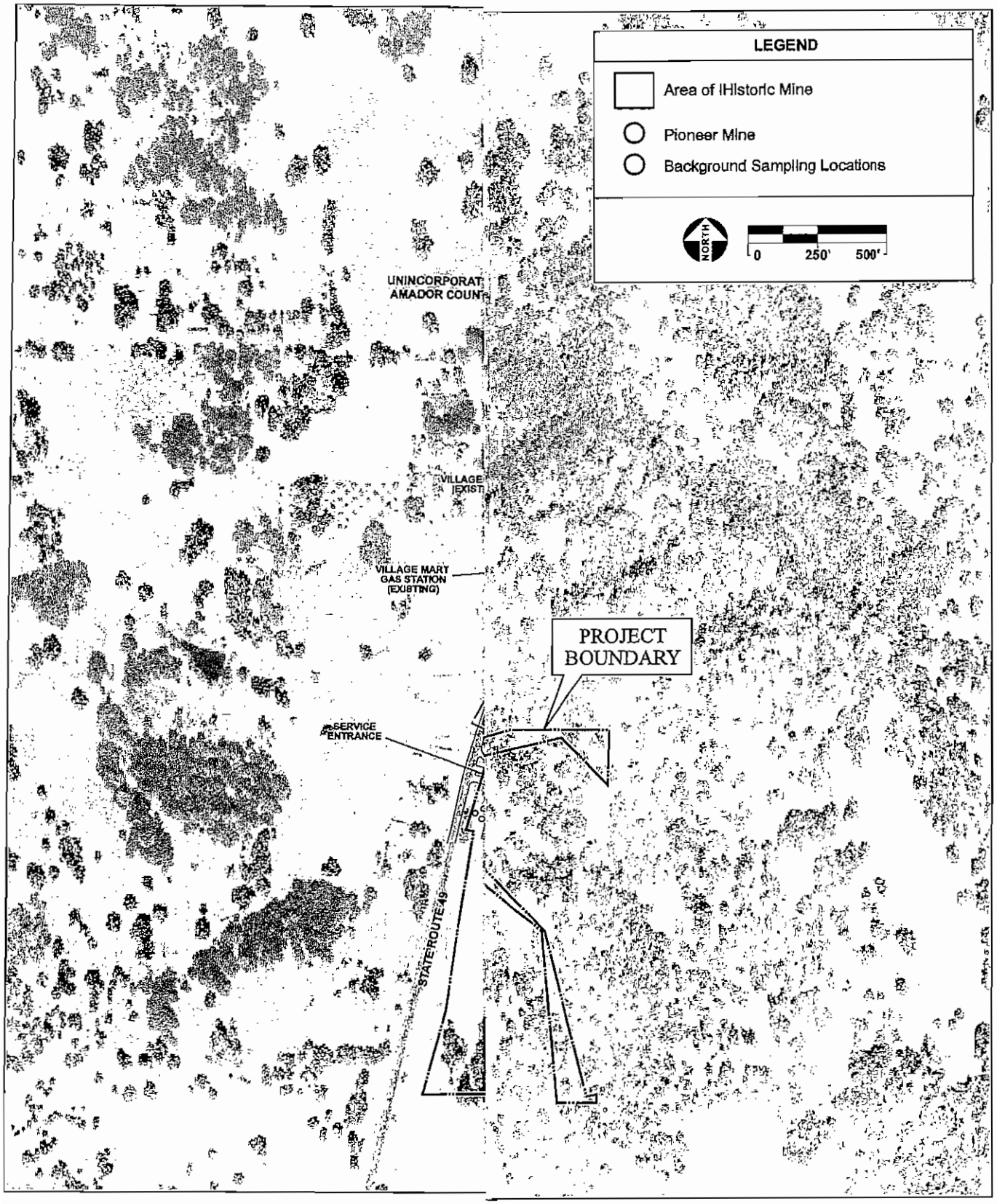
It is important to consider whether the safety standards used by developed countries are appropriate for the Bangladesh context where there are multiple severe health and environmental issues. Therefore there is a need for Bangladesh to establish it's own safety standards for arsenic in food and soils. These standards will depend on acceptable risk levels, tempered by what is achievable. In considering standard development, it is clear that potential impacts of As on food security and direct human exposure to arsenic are both important for human health outcomes.

References

Chen, M., L.Q. Ma and W.G. Harris. 2002. Arsenic concentrations in Florida surface soils; influence of soil type and properties. Soil Sci. Soc. Am. J. 66:632-640.

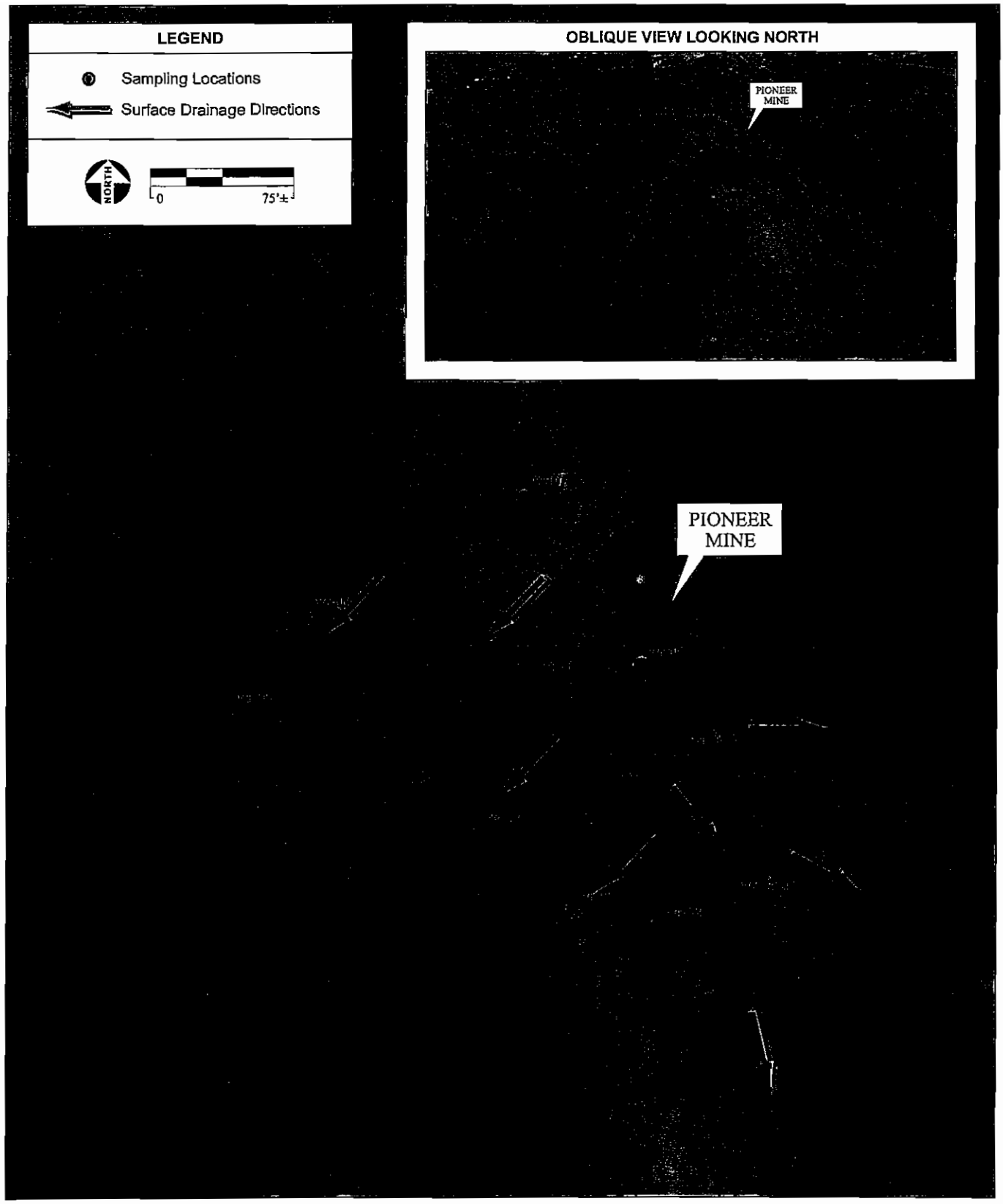
Huq, S.M.I., A. Rahman and N. Sultana. 2003. Extent and severity of arsenic contamination in soils of Bangladesh. *In* M.F. Ahmed et al. (ed) Fate of Arsenic in the Environment, Bangladesh University of Engineering Technology, Dhaka.

Jahiruddin, M., M.R. Islam, A.L. Shah, S. Islam and M.A. Ghani. 2004. Effects of arsenic contamination on yield and arsenic accumulation in crops. *In* M. A.L Shah et al. (ed.), Proc.



SOURCE: Airphoto USA Aerial Photograph, 11/1/2002; KKE Architects, 2004; Hydro

Exhibit A
Project Site and Vicinity



SOURCE: Google Earth Aerial; AES 2008

Exhibit B
Soil Sample Locations

EMSL Analytical, Inc
2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **Pete Connelley**
AES- Analytical Environmental Services
1801 7th Street
Sacramento, CA 95814

Fax: Phone: (916) 447-3479
Project: **203525**

Customer ID: +00ANES01
Customer PO: 203525
Received: 09/29/08 9:00 AM
EMSL Order: 090807778

EMSL Proj:
Analysis Date: 9/30/2008
Report Date: 10/1/2008

PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
WR-1 *090807778-0001*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
WR-2 *090807778-0002*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
WR-3 *090807778-0003*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
WR-4 *090807778-0004*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
WR-5 *090807778-0005*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
WR-6 *090807778-0006*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
WR-7 *090807778-0007*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
WR-8 *090807778-0008*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
WR-9 *090807778-0009*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
WR-10 *090807778-0010*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Adam C. Fink (13)

Baojia Ke, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc
2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **Pete Connelley**
AES- Analytical Environmental Services
1801 7th Street
Sacramento, CA 95814

Fax: Phone: (916) 447-3479
Project: **203525**

Customer ID: +00ANES01
Customer PO: 203525
Received: 09/29/08 9:00 AM
EMSL Order: 090807778

EMSL Proj:
Analysis Date: 9/30/2008
Report Date: 10/1/2008

PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

			Non-Asbestos		Asbestos
Sample	Location	Appearance	% Fibrous	% Non-Fibrous	% Type
BG-1 *090807778-0011*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
BG-2 *090807778-0012*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
BG-3 *090807778-0013*		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Adam C. Fink (13)

Baojia Ke, Laboratory Manager
or other approved signatory

THIS IS THE LAST PAGE OF THE REPORT.

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 02, 2008

CLS Work Order #: CRI1019
COC #: 99710

Trent Wilson
AES
1801 7th St., Suite100
Sacramento, CA 95811

Project Name: Ione Soil Sampling

Enclosed are the results of analyses for samples received by the laboratory on 09/26/08 13:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CLS - Labs

CHAIN OF CUSTODY

CLS ID No.: CRI 1019 LOG NO. 99710

REPORT TO:

NAME AND ADDRESS: AES, 1801 7th Street, Sacramento 95814

PROJECT MANAGER: Trent Wilson PHONE#: 447-3479

PROJECT NAME: Lone Soil sampling

SAMPLED BY: Pete Connelly

JOB DESCRIPTION:

SITE LOCATION: Lone

CLIENT JOB NUMBER:

DESTINATION LABORATORY:

☐ CLS (916) 638-7301
3249 FITZGERALD RD.
RANCHO CORDOVA, CA.
95742

☐ OTHER

PRESERVATIVES

ANALYSIS REQUESTED: Cam-17 metals

GEOTRACKER:
EDF REPORT ☐ YES ☐ NO
GLOBAL ID:

COMPOSITE:

FIELD CONDITIONS:

TURN AROUND TIME: 1 DAY | 2 DAY | 5 DAY X | 10 DAY

SPECIAL INSTRUCTIONS
OR
ALT. ID:

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES
9/24/08	1030	WR-1	Soil	1	Glass	3
		WR-2				
		WR-3				
	1040	WR-4				
	1050	WR-5				
	1100	WR-6				
	1130	WR-7				
	1140	WR-8				
	1155	WR-9				
	1230	WR-10				
	1255	BG-1				
	1305	BG-2				
	1310	BG-3				

INVOICE TO:

P.O. #

QUOTE #

SUSPECTED CONSTITUENTS

PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
	Pete Connelly, AES	9/26/08		

REC'D AT LAB BY: JonR

DATE / TIME: 9-26-8 1330

CONDITIONS / COMMENTS: 10°C

SHIPPED BY: ☐ FED X ☐ UPS ☐ OTHER _____ AIR BILL #

CALIFORNIA LABORATORY SERVICES

10/02/08 09:38

AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	**CLS Work Order #: CRI1019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WR-1 (CRI1019-01) Soil Sampled: 09/26/08 10:30 Received: 09/26/08 13:30									
Selenium	ND	2.5	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	**75**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	**0.81**	0.50	"	"	"	"	"	"	
Cobalt	**11**	1.0	"	"	"	"	"	"	
Chromium	**9.3**	1.0	"	"	"	"	"	"	
Copper	**49**	1.0	"	"	"	"	"	"	
Lead	**35**	2.5	"	"	"	"	"	"	
Molybdenum	**3.9**	1.0	"	"	"	"	"	"	
Nickel	**28**	1.0	"	"	"	"	"	"	
Silver	**2.0**	0.50	"	"	"	"	"	"	
Vanadium	**8.8**	1.0	"	"	"	"	"	"	
Zinc	**110**	1.0	"	"	"	"	"	"	
Arsenic	**220**	10	"	"	"	"	"	"	
Mercury	**0.19**	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	
WR-2 (CRI1019-02) Soil Sampled: 09/26/08 10:30 Received: 09/26/08 13:30									
Selenium	ND	2.5	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	**41**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	**0.65**	0.50	"	"	"	"	"	"	
Cobalt	**12**	1.0	"	"	"	"	"	"	
Chromium	**10**	1.0	"	"	"	"	"	"	
Copper	**54**	1.0	"	"	"	"	"	"	
Lead	**20**	2.5	"	"	"	"	"	"	
Molybdenum	**4.8**	1.0	"	"	"	"	"	"	
Nickel	**31**	1.0	"	"	"	"	"	"	
Silver	**1.9**	0.50	"	"	"	"	"	"	
Vanadium	**8.2**	1.0	"	"	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

10/02/08 09:38

AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	CLS Work Order #: CRI1019
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WR-2 (CRI1019-02) Soil	**Sampled: 09/26/08 10:30**	**Received: 09/26/08 13:30**							
Zinc	75	1.0	mg/kg	1	CR08120	"	09/29/08	EPA 6010B	
Arsenic	180	10	"	"	"	"	"	"	
Mercury	0.19	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	
WR-3 (CRI1019-03) Soil	**Sampled: 09/26/08 10:30**	**Received: 09/26/08 13:30**							
Arsenic	73	1.0	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	79	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	0.51	0.50	"	"	"	"	"	"	
Cobalt	12	1.0	"	"	"	"	"	"	
Chromium	16	1.0	"	"	"	"	"	"	
Copper	48	1.0	"	"	"	"	"	"	
Lead	13	2.5	"	"	"	"	"	"	
Molybdenum	3.2	1.0	"	"	"	"	"	"	
Nickel	35	1.0	"	"	"	"	"	"	
Silver	1.5	0.50	"	"	"	"	"	"	
Vanadium	14	1.0	"	"	"	"	"	"	
Zinc	97	1.0	"	"	"	"	"	"	
Mercury	0.11	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	
WR-4 (CRI1019-04) Soil	**Sampled: 09/26/08 10:40**	**Received: 09/26/08 13:30**							
Selenium	ND	2.5	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	160	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	0.86	0.50	"	"	"	"	"	"	
Cobalt	12	1.0	"	"	"	"	"	"	
Chromium	12	1.0	"	"	"	"	"	"	
Copper	63	1.0	"	"	"	"	"	"	
Lead	14	2.5	"	"	"	"	"	"	

California Laboratory Services

10/02/08 09:38

AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	**CLS Work Order #: CRI1019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WR-4 (CRI1019-04) Soil	**Sampled: 09/26/08 10:40**	**Received: 09/26/08 13:30**							
Molybdenum	**3.1**	1.0	mg/kg	1	CR08120	"	09/29/08	EPA 6010B	
Nickel	**36**	1.0	"	"	"	"	"	"	
Silver	**1.7**	0.50	"	"	"	"	"	"	
Vanadium	**11**	1.0	"	"	"	"	"	"	
Zinc	**89**	1.0	"	"	"	"	"	"	
Arsenic	**280**	10	"	"	"	"	"	"	
Mercury	**0.22**	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	
WR-5 (CRI1019-05) Soil	**Sampled: 09/26/08 10:50**	**Received: 09/26/08 13:30**							
Selenium	ND	2.5	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	**63**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	**0.86**	0.50	"	"	"	"	"	"	
Cobalt	**11**	1.0	"	"	"	"	"	"	
Chromium	**13**	1.0	"	"	"	"	"	"	
Copper	**51**	1.0	"	"	"	"	"	"	
Lead	**19**	2.5	"	"	"	"	"	"	
Molybdenum	**3.2**	1.0	"	"	"	"	"	"	
Nickel	**33**	1.0	"	"	"	"	"	"	
Silver	**1.4**	0.50	"	"	"	"	"	"	
Vanadium	**11**	1.0	"	"	"	"	"	"	
Zinc	**110**	1.0	"	"	"	"	"	"	
Arsenic	**190**	10	"	"	"	"	"	"	
Mercury	**0.25**	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	
WR-6 (CRI1019-06) Soil	**Sampled: 09/26/08 11:00**	**Received: 09/26/08 13:30**							
Selenium	ND	2.5	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	**76**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	**1.0**	0.50	"	"	"	"	"	"	

CALIFORNIA LABORATORY SERVICES

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AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	**CLS Work Order #: CRI1019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WR-6 (CRI1019-06) Soil	**Sampled: 09/26/08 11:00**	**Received: 09/26/08 13:30**							
Cobalt	**13**	1.0	mg/kg	1	CR08120	"	09/29/08	EPA 6010B	
Chromium	**14**	1.0	"	"	"	"	"	"	
Copper	**57**	1.0	"	"	"	"	"	"	
Lead	**25**	2.5	"	"	"	"	"	"	
Molybdenum	**3.4**	1.0	"	"	"	"	"	"	
Nickel	**36**	1.0	"	"	"	"	"	"	
Silver	**1.8**	0.50	"	"	"	"	"	"	
Vanadium	**13**	1.0	"	"	"	"	"	"	
Zinc	**120**	1.0	"	"	"	"	"	"	
Arsenic	**270**	10	"	"	"	"	"	"	
Mercury	**0.22**	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	
WR-7 (CRI1019-07) Soil	**Sampled: 09/26/08 11:30**	**Received: 09/26/08 13:30**							
Arsenic	**32**	1.0	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	**3.3**	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	**71**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	**9.2**	1.0	"	"	"	"	"	"	
Chromium	**16**	1.0	"	"	"	"	"	"	
Copper	**50**	1.0	"	"	"	"	"	"	
Lead	**48**	2.5	"	"	"	"	"	"	
Molybdenum	**3.5**	1.0	"	"	"	"	"	"	
Nickel	**34**	1.0	"	"	"	"	"	"	
Silver	**1.6**	0.50	"	"	"	"	"	"	
Vanadium	**15**	1.0	"	"	"	"	"	"	
Zinc	**110**	1.0	"	"	"	"	"	"	
Mercury	**0.14**	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	
WR-8 (CRI1019-08) Soil	**Sampled: 09/26/08 11:40**	**Received: 09/26/08 13:30**							
Arsenic	**21**	1.0	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	

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AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	**CLS Work Order #: CRI1019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WR-8 (CRI1019-08) Soil Sampled: 09/26/08 11:40 Received: 09/26/08 13:30									
Thallium	ND	1.0	mg/kg	10	CR08119	"	09/29/08	EPA 6020/7000	
Antimony	ND	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	**54**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	**8.6**	1.0	"	"	"	"	"	"	
Chromium	**15**	1.0	"	"	"	"	"	"	
Copper	**40**	1.0	"	"	"	"	"	"	
Lead	**14**	2.5	"	"	"	"	"	"	
Molybdenum	**2.3**	1.0	"	"	"	"	"	"	
Nickel	**26**	1.0	"	"	"	"	"	"	
Silver	**1.0**	0.50	"	"	"	"	"	"	
Vanadium	**14**	1.0	"	"	"	"	"	"	
Zinc	**100**	1.0	"	"	"	"	"	"	
Mercury	0.19	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	
WR-9 (CRI1019-09) Soil Sampled: 09/26/08 11:55 Received: 09/26/08 13:30									
Arsenic	**18**	1.0	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	**91**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	**7.1**	1.0	"	"	"	"	"	"	
Chromium	**20**	1.0	"	"	"	"	"	"	
Copper	**45**	1.0	"	"	"	"	"	"	
Lead	**26**	2.5	"	"	"	"	"	"	
Molybdenum	**3.3**	1.0	"	"	"	"	"	"	
Nickel	**31**	1.0	"	"	"	"	"	"	
Silver	**1.5**	0.50	"	"	"	"	"	"	
Vanadium	**21**	1.0	"	"	"	"	"	"	
Zinc	**96**	1.0	"	"	"	"	"	"	
Mercury	0.16	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	

CALIFORNIA LABORATORY SERVICES

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AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	**CLS Work Order #: CRI1019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WR-10 (CRI1019-10) Soil Sampled: 09/26/08 12:30 Received: 09/26/08 13:30									
Selenium	ND	2.5	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	**2.8**	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	**110**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	**12**	1.0	"	"	"	"	"	"	
Chromium	**16**	1.0	"	"	"	"	"	"	
Copper	**51**	1.0	"	"	"	"	"	"	
Lead	**17**	2.5	"	"	"	"	"	"	
Molybdenum	**2.8**	1.0	"	"	"	"	"	"	
Nickel	**35**	1.0	"	"	"	"	"	"	
Silver	**1.7**	0.50	"	"	"	"	"	"	
Vanadium	**15**	1.0	"	"	"	"	"	"	
Zinc	**110**	1.0	"	"	"	"	"	"	
Arsenic	**110**	10	"	"	"	"	"	"	
Mercury	**0.19**	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	
BG-1 (CRI1019-11) Soil Sampled: 09/26/08 12:55 Received: 09/26/08 13:30									
Arsenic	**9.3**	1.0	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	**82**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	**12**	1.0	"	"	"	"	"	"	
Chromium	**35**	1.0	"	"	"	"	"	"	
Copper	**35**	1.0	"	"	"	"	"	"	
Lead	**14**	2.5	"	"	"	"	"	"	
Molybdenum	**2.8**	1.0	"	"	"	"	"	"	
Nickel	**42**	1.0	"	"	"	"	"	"	
Silver	**1.8**	0.50	"	"	"	"	"	"	
Vanadium	**29**	1.0	"	"	"	"	"	"	

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AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	**CLS Work Order #: CRI1019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BG-1 (CRI1019-11) Soil	**Sampled: 09/26/08 12:55**	**Received: 09/26/08 13:30**							
Zinc	**100**	1.0	mg/kg	1	CR08120	"	09/29/08	EPA 6010B	
Mercury	ND	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	
BG-2 (CRI1019-12) Soil	**Sampled: 09/26/08 13:05**	**Received: 09/26/08 13:30**							
Arsenic	**10**	1.0	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	**100**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	**13**	1.0	"	"	"	"	"	"	
Chromium	**32**	1.0	"	"	"	"	"	"	
Copper	**37**	1.0	"	"	"	"	"	"	
Lead	**16**	2.5	"	"	"	"	"	"	
Molybdenum	**2.8**	1.0	"	"	"	"	"	"	
Nickel	**43**	1.0	"	"	"	"	"	"	
Silver	**1.9**	0.50	"	"	"	"	"	"	
Vanadium	**27**	1.0	"	"	"	"	"	"	
Zinc	**100**	1.0	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	
BG-3 (CRI1019-13) Soil	**Sampled: 09/26/08 13:10**	**Received: 09/26/08 13:30**							
Arsenic	**8.0**	1.0	mg/kg	10	CR08119	09/29/08	09/29/08	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CR08120	09/29/08	09/29/08	EPA 6010B	
Barium	**120**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	**10**	1.0	"	"	"	"	"	"	
Chromium	**25**	1.0	"	"	"	"	"	"	
Copper	**24**	1.0	"	"	"	"	"	"	
Lead	**10**	2.5	"	"	"	"	"	"	

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AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	**CLS Work Order #: CRI1019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BG-3 (CRI1019-13) Soil	**Sampled: 09/26/08 13:10**	**Received: 09/26/08 13:30**							
Molybdenum	**1.9**	1.0	mg/kg	1	CR08120	"	09/29/08	EPA 6010B	
Nickel	**26**	1.0	"	"	"	"	"	"	
Silver	**1.5**	0.50	"	"	"	"	"	"	
Vanadium	**28**	1.0	"	"	"	"	"	"	
Zinc	**76**	1.0	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	CR08123	09/29/08	09/30/08	EPA 7471A	

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AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	**CLS Work Order #: CRII019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CR08119 - EPA 3050B										
Blank (CR08119-BLK1)				Prepared & Analyzed: 09/29/08						
Arsenic	ND	0.10	mg/kg							
Selenium	ND	0.25	"							
Thallium	ND	0.10	"							
LCS (CR08119-BS1)				Prepared & Analyzed: 09/29/08						
Arsenic	4.31	0.10	mg/kg	5.00		86	75-125			
Selenium	3.95	0.25	"	5.00		79	75-125			
Thallium	5.33	0.10	"	5.00		107	75-125			
LCS Dup (CR08119-BSD1)				Prepared & Analyzed: 09/29/08						
Arsenic	4.31	0.10	mg/kg	5.00		86	75-125	0.05	25	
Selenium	3.83	0.25	"	5.00		77	75-125	3	25	
Thallium	5.33	0.10	"	5.00		107	75-125	0.04	25	
Matrix Spike (CR08119-MS1)	Source: CRI1019-01			Prepared & Analyzed: 09/29/08						
Arsenic	180	1.0	mg/kg	5.00	215	NR	75-125			QM-4X
Selenium	4.12	2.5	"	5.00	ND	82	75-125			
Thallium	5.43	1.0	"	5.00	ND	109	75-125			
Matrix Spike Dup (CR08119-MSD1)	Source: CRI1019-01			Prepared & Analyzed: 09/29/08						
Arsenic	186	1.0	mg/kg	5.00	215	NR	75-125	4	30	QM-4X
Selenium	4.56	2.5	"	5.00	ND	91	75-125	10	30	
Thallium	5.61	1.0	"	5.00	ND	112	75-125	3	30	
Batch CR08120 - EPA 3050B										
Blank (CR08120-BLK1)				Prepared & Analyzed: 09/29/08						
Antimony	ND	2.5	mg/kg							
Barium	ND	1.0	"							
Beryllium	ND	0.50	"							
Cadmium	ND	0.50	"							
Cobalt	ND	1.0	"							
Chromium	ND	1.0	"							
Copper	ND	1.0	"							
Lead	ND	2.5	"							
Molybdenum	ND	1.0	"							
Nickel	ND	1.0	"							
Silver	ND	0.50	"							
Vanadium	ND	1.0	"							

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AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	**CLS Work Order #: CRI1019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CR08120 - EPA 3050B										
Blank (CR08120-BLK1)				Prepared & Analyzed: 09/29/08						
Zinc	ND	1.0	mg/kg							
Arsenic	ND	10	"							
LCS (CR08120-BS1)				Prepared & Analyzed: 09/29/08						
Antimony	23.3	2.5	mg/kg	25.0		93	75-125			
Barium	89.8	1.0	"	100		90	75-125			
Beryllium	2.12	0.50	"	2.50		85	75-125			
Cadmium	2.60	0.50	"	2.50		104	75-125			
Cobalt	22.3	1.0	"	25.0		89	75-125			
Chromium	9.13	1.0	"	10.0		91	75-125			
Copper	11.2	1.0	"	12.5		90	75-125			
Lead	22.3	2.5	"	25.0		89	75-125			
Molybdenum	23.6	1.0	"	25.0		94	75-125			
Nickel	22.5	1.0	"	25.0		90	75-125			
Silver	2.41	0.50	"	2.50		96	75-125			
Vanadium	22.6	1.0	"	25.0		90	75-125			
Zinc	22.1	1.0	"	25.0		89	75-125			
Arsenic	87.5	10	"	100		88	75-125			
LCS Dup (CR08120-BSD1)				Prepared & Analyzed: 09/29/08						
Antimony	23.6	2.5	mg/kg	25.0		94	75-125	1	25	
Barium	89.8	1.0	"	100		90	75-125	0.06	25	
Beryllium	2.13	0.50	"	2.50		85	75-125	0.09	25	
Cadmium	2.43	0.50	"	2.50		97	75-125	7	25	
Cobalt	22.5	1.0	"	25.0		90	75-125	0.6	25	
Chromium	8.77	1.0	"	10.0		88	75-125	4	25	
Copper	11.1	1.0	"	12.5		89	75-125	0.5	25	
Lead	22.0	2.5	"	25.0		88	75-125	2	25	
Molybdenum	23.7	1.0	"	25.0		95	75-125	0.6	25	
Nickel	22.3	1.0	"	25.0		89	75-125	1	25	
Silver	2.37	0.50	"	2.50		95	75-125	1	25	
Vanadium	22.5	1.0	"	25.0		90	75-125	0.04	25	
Zinc	22.1	1.0	"	25.0		88	75-125	0.3	25	
Arsenic	89.5	10	"	100		90	75-125	2	25	

CALIFORNIA LABORATORY SERVICES

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AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	**CLS Work Order#: CRI1019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC#: 99710

CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CR08120 - EPA 3050B										
Matrix Spike (CR08120-MS1)	Source: CRI1019-01			Prepared & Analyzed: 09/29/08						
Antimony	11.5	2.5	mg/kg	25.0	ND	46	75-125			QM-5
Barium	159	1.0	"	100	75.2	84	75-125			
Beryllium	2.44	0.50	"	2.50	0.255	87	75-125			
Cadmium	3.44	0.50	"	2.50	0.805	105	75-125			
Cobalt	33.4	1.0	"	25.0	10.5	92	75-125			
Chromium	20.0	1.0	"	10.0	9.28	107	75-125			
Copper	64.9	1.0	"	12.5	48.5	131	75-125			QM-5
Lead	48.7	2.5	"	25.0	34.9	55	75-125			QM-5
Molybdenum	25.5	1.0	"	25.0	3.87	87	75-125			
Nickel	55.7	1.0	"	25.0	28.1	110	75-125			
Silver	4.25	0.50	"	2.50	2.03	89	75-125			
Vanadium	31.7	1.0	"	25.0	8.82	92	75-125			
Zinc	146	1.0	"	25.0	108	151	75-125			QM-5
Arsenic	314	10	"	100	215	98	75-125			
Matrix Spike Dup (CR08120-MSD1)	Source: CRI1019-01			Prepared & Analyzed: 09/29/08						
Antimony	9.27	2.5	mg/kg	25.0	ND	37	75-125	22	30	QM-5
Barium	147	1.0	"	100	75.2	72	75-125	8	30	QM-5
Beryllium	2.30	0.50	"	2.50	0.255	82	75-125	6	30	
Cadmium	3.30	0.50	"	2.50	0.805	100	75-125	4	30	
Cobalt	30.7	1.0	"	25.0	10.5	81	75-125	9	30	
Chromium	18.0	1.0	"	10.0	9.28	87	75-125	10	30	
Copper	57.5	1.0	"	12.5	48.5	71	75-125	12	30	QM-5
Lead	45.5	2.5	"	25.0	34.9	42	75-125	7	30	QM-5
Molybdenum	24.1	1.0	"	25.0	3.87	81	75-125	6	30	
Nickel	48.7	1.0	"	25.0	28.1	82	75-125	13	30	
Silver	4.00	0.50	"	2.50	2.03	79	75-125	6	30	
Vanadium	29.9	1.0	"	25.0	8.82	84	75-125	6	30	
Zinc	128	1.0	"	25.0	108	82	75-125	13	30	
Arsenic	277	10	"	100	215	62	75-125	12	30	QM-5

CALIFORNIA LABORATORY SERVICES

10/02/08 09:38

AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Project Number: [none]	**CLS Work Order #: CRI1019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CR08123 - EPA 7471A										
Blank (CR08123-BLK1)				Prepared: 09/29/08 Analyzed: 09/30/08						
Mercury	ND	0.10	mg/kg							
LCS (CR08123-BS1)				Prepared: 09/29/08 Analyzed: 09/30/08						
Mercury	0.528	0.10	mg/kg	0.625		84	75-125			
LCS Dup (CR08123-BSD1)				Prepared: 09/29/08 Analyzed: 09/30/08						
Mercury	0.539	0.10	mg/kg	0.625		86	75-125	2	25	
Matrix Spike (CR08123-MS1)		Source: CRI0997-10		Prepared: 09/29/08 Analyzed: 09/30/08						
Mercury	0.560	0.10	mg/kg	0.625	ND	90	75-125			
Matrix Spike Dup (CR08123-MSD1)		Source: CRI0997-10		Prepared: 09/29/08 Analyzed: 09/30/08						
Mercury	0.563	0.10	mg/kg	0.625	ND	90	75-125	0.4	25	

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10/02/08 09:38

AES	Project: Ione Soil Sampling	
1801 7th St., Suite100	Projeet Number: [none]	**CLS Work Order #: CRI1019**
Sacramento CA, 95811	Project Manager: Trent Wilson	COC #: 99710

Notes and Definitions

QM-5	The spike recovery was outside acceptanee limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in eontrol and the data is aeceptable.
QM-4X	The spike recovery was outside of QC aceeptanee limits for the MS and/or MSD due to analyte eoneentration at 4 times or greater the spike concentration. The QC bateh was accepted based on LCS and/or LCSD reeoveries within the aeeeptanee limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Pereent Difference