Phase I Environmental Site Assessment

Blue Lake Business Park
Blue Lake, Humboldt County, California
(APNs: 025-201-002; 025-201-006; 025-201-009; 025-201-019; and 312-161-015, and -018)

Prepared for:

City of Blue Lake

Consulting Engineers & Geologists, Inc.

812 W. Wabash Ave.
Eureka, CA 95501-2138
707-441-8855

June 2011
011003.401

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707-441-8855 • FAX: 707-441-8877 •shninfo@shn-engr.com

Reference: 011003.401

June 23, 2011

Mr. John Berchtold, City Manager
City of Blue Lake
P.O. Box 458
Blue Lake, CA 95525

Subject: **Phase I Environmental Site Assessment, Blue Lake Business Park, Blue Lake, Humboldt County, California; APNs: 025-201-002; 025-201-006; 025-201-009; 025-201-019; and 312-161-015, and -018.**

Dear Mr. Berchtold:

Enclosed are two copies of our Phase I Environmental Site Assessment (ESA) for the Blue Lake Business Park property.

As part of our detailed investigation, SHN Consulting Engineers & Geologists, Inc. (SHN) identified **Recognized Environmental Conditions,** as defined in American Society for Testing and Materials-International Standard E 1527-05. As such, it is SHN's opinion that further site characterization is warranted for all parcels included in the Phase I ESA.

If you have any questions, or if we can be of further assistance, please call Mike Foget or me at 707-441-8855.

Sincerely,

SHN Consulting Engineers & Geologists, Inc.

Patrick Barsanti
Registered Environmental Assessor

PNB:lms
Enclosure: Phase I ESA Report

Reference: 011003.401

Phase I Environmental Site Assessment

Blue Lake Business Park
Blue Lake, Humboldt County, California
(APNs: 025-201-002; 025-201-006; 025-201-009; 025-201-019; 312-161-015 and 312-161-018)

Prepared for:

City of Blue Lake

Prepared by:

Consulting Engineers & Geologists, Inc.
812 W. Wabash Ave.
Eureka, CA 95501-2138
707-441-8855

June 2011

QA/QC: MKF

\\Eureka\projects\2011\011003-BlueLake\401-Bus-Park-Ph-I\PUBS\rpts\20110623-PhI-ESA.doc

Table of Contents

Table of Contents, Continued

Appendices

List of Illustrations

Figures **Follows Page**

Tables **Page**

Abbreviations and Acronyms

AAI	All Appropriate Inquires
ACM	Asbestos Containing Material
APN	Assessor's Parcel Number
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials--International
AUL	Activity and Use Limitation
BGS	Below Ground Surface
CA WDS	California Waste Discharge System Database
Cal-site	State Calsite (formerly ASPIS)
CDF	California Department of Forestry
CDMG	California Division of Mines and Geology
CFR	Code of Federal Regulations
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System (Federal)
CIWMB	California EPA Integrated Waste Management Board
DHS	State of California, Department of Health Services
DI	Drainage Inlet
DTSC	California Department of Toxic Substances Control
EDR	Environmental Data Resources, Incorporated
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FEMA	Federal Emergency Management Agency
HA	Hydrologic Area
HAZNET	Hazardous Waste Manifest
HCDEH	Humboldt County Division of Environmental Health
HIST CORTESE	Historic Hazardous Waste and Substances Site List (DTSC)
HIST UST	Historical Underground Storage Tank database
LUST	State Registered Leaking Underground Storage Tank
M	Industrial (zone designation)
M#	Magnitude-number
ML	Light Manufacturer (zone designation)
MRfz	Mad River fault zone
MSL	Mean Sea Level
NCUAQMD	North Coast Unified Air Quality Management District
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NR	No Reference
PF	Public Facility (zone designation)
PG&E	Pacific Gas & Electric Company
PVC	polyvinyl Chloride
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RWQCB	California Regional Water Quality Control Board, North Coast Region
SCS	Soil Conservation Service
SHN	SHN Consulting Engineers & Geologists, Inc.

Abbreviations and Acronyms, Continued

STATSGO	State Soil Geographic
SWEEPS	Statewide Environmental Evaluation and Planning System
SWRCB	California State Water Resources Control Board
USC	United States Code
USDA	United States Department of Agriculture
USGS	U.S. Geological Survey
UST	Underground Storage Tank

1.0 Introduction

1.1 Purpose

In April, May, and June of 2011, SHN Consulting Engineers & Geologists, Inc. (SHN) completed a Phase I Environmental Site Assessment (ESA) of the Blue Lake Business Park (subject property), as requested by the City of Blue Lake. The business park is located in the City of Blue Lake, Humboldt County, California.

The purpose of conducting the Phase I ESA was to assess the property, largely based on current circumstances, with respect to the presence or absence in the environment, of regulated or hazardous materials, as defined in the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), and Department of Toxic Substances Control (DTSC) Title 22 of the California Code of Regulations. This Phase I ESA was prepared in general accordance with American Society for Testing and Materials-International (ASTM) Standard Practice E 1527-05 for the Phase I ESA Process. Any exceptions to or deletions from these standard practices are described in Section 1.3 of this report.

This Phase I ESA is also in conformance with the new regulations and sections per the recent United States Environmental Protection Agency (EPA) Final Rule pertaining to standards and practices for All Appropriate Inquires (AAI), and addresses the latest landowner liability protections that have evolved as a result of Congress's actions and the new EPA rule (that is, the addition of the contiguous property owner and bona fide prospective purchaser defenses related to liability under the Comprehensive Environmental Response, Compensation and Liability Act [CERCLA or Superfund]). The AAI Rule requires the environmental professional to include an opinion regarding additional appropriate investigation, if any to detect the presence of hazardous substances or petroleum products. This practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner defense to CERCLA liability; that is, practices that constitute "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice," as defined in 42 United States Code (USC) 9601 (35)(B).

This report has been prepared on behalf of and for the exclusive use of the City of Blue Lake and its designated representatives, and is subject to and issued in connection with the agreement with SHN and the provisions thereof. The City of Blue Lake and its designated representatives may read and rely upon the information contained in this report for loan underwriting purposes, subject only to the conditions and limitations identified in this report.

1.2 Scope of Services

In compliance with ASTM Standard E 1527-05, SHN performed these ESA services in preparation of this updated document:

- Conducted a field reconnaissance of the subject property to look for evidence of existing or potential soil and groundwater contamination.
- Provided color photographs of the subject property (Appendix A).

- Conducted a survey of the property vicinity, in order to identify businesses or facilities that may use, produce, and/or store reportable quantities of hazardous materials or generate hazardous waste. SHN also conducted a perimeter survey of the adjacent properties for obvious signs of potential contaminant migration.
- Reviewed local and regional geological and groundwater conditions in the area of the property.
- Identified existing or proposed municipal infrastructure for the property and vicinity, including potable water, wastewater, and storm water provisions, as mandated by the ASTM guidelines.
- Examined aerial photographs of the property taken over a 60-year period; reviewed U.S. Geological Survey (USGS) topographic maps; and when available historic Sanborn Maps are included (Appendix B); reviewed the assessors parcel map, and other maps of interest (Appendix C); and discussed archived permit records, and reviewed other reasonably ascertainable standard sources (Appendix C), for the purpose of developing a continuous site history dating back to the first known development, as recommended by the ASTM guidelines.
- Using the ASTM-designated search radii, reviewed publicly available federal, state, county, and other regulatory agency lists and databases (including Comprehensive Environmental Response Compensation and Liability Information System [CERCLIS], National Priorities List [NPL], and Cal-sites) for sites with known hazardous materials contamination and/or registered underground storage tanks located on or near the property (Appendix D).
- Reviewed and/or discussed selected regulatory agency files and records with the Humboldt County Division of Environmental Health (HCDEH), and the City of Blue Lake Building and Planning Departments, in order to evaluate whether the listed sites are likely to be potential hazardous materials threats to the subject property.
- Reviewed and completed a land use questionnaire, and discussed the follow-up list of questions (supplied by SHN, Appendix E).
- Interviewed a local government official as well as the present owner's representatives.
- Requested a comparison of the purchase price to the value of the property.
- Provided an opinion regarding the need for additional appropriate investigation.
- Identified and commented on the existence and significance of potential data gaps.
- Identified the presence or likely presence of any Activity and Use Limitations (AULs) and environmental cleanup liens beyond the land title records, where reasonably ascertainable.
- Identified Recognized Environmental Conditions (RECs).

Sampling and testing of soil and groundwater at the subject property, and surveys for asbestos, radon, or lead-based paint was beyond SHN's scope of services for this project.

1.3 Limitations and Exceptions

Information contained in this ESA was obtained in part from the Environmental Data Resources, Incorporated (EDR) Report (Appendix D). SHN also derived the data in this report primarily from visual inspections, examination of records in the public domain, and interviews with selected individuals with information about the property.

Except as otherwise stated in the report, SHN has not attempted to verify the accuracy or completeness of any such information. The passage of time, manifestation of latent conditions, or occurrence of future events may require further exploration at the property; analysis of the data; and re-evaluation of the findings, observations, and conclusions expressed in this report. Because of the limitations stated above, the findings, observations, and conclusions expressed by SHN in this report are not, and should not be considered an opinion concerning the compliance of any past or present owner or operator of the property with any federal, state, or local laws or regulations.

No warranty or guarantee, whether expressed or implied, is made with respect to the data reported or findings, observations, and conclusions expressed in this report. Such data, findings, observations, and conclusions are based solely on site conditions in existence at the time of the investigation, and are not representative of areas of the property that were not readily accessible or observable.

No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a property; this practice recognizes reasonable limits of time and cost.

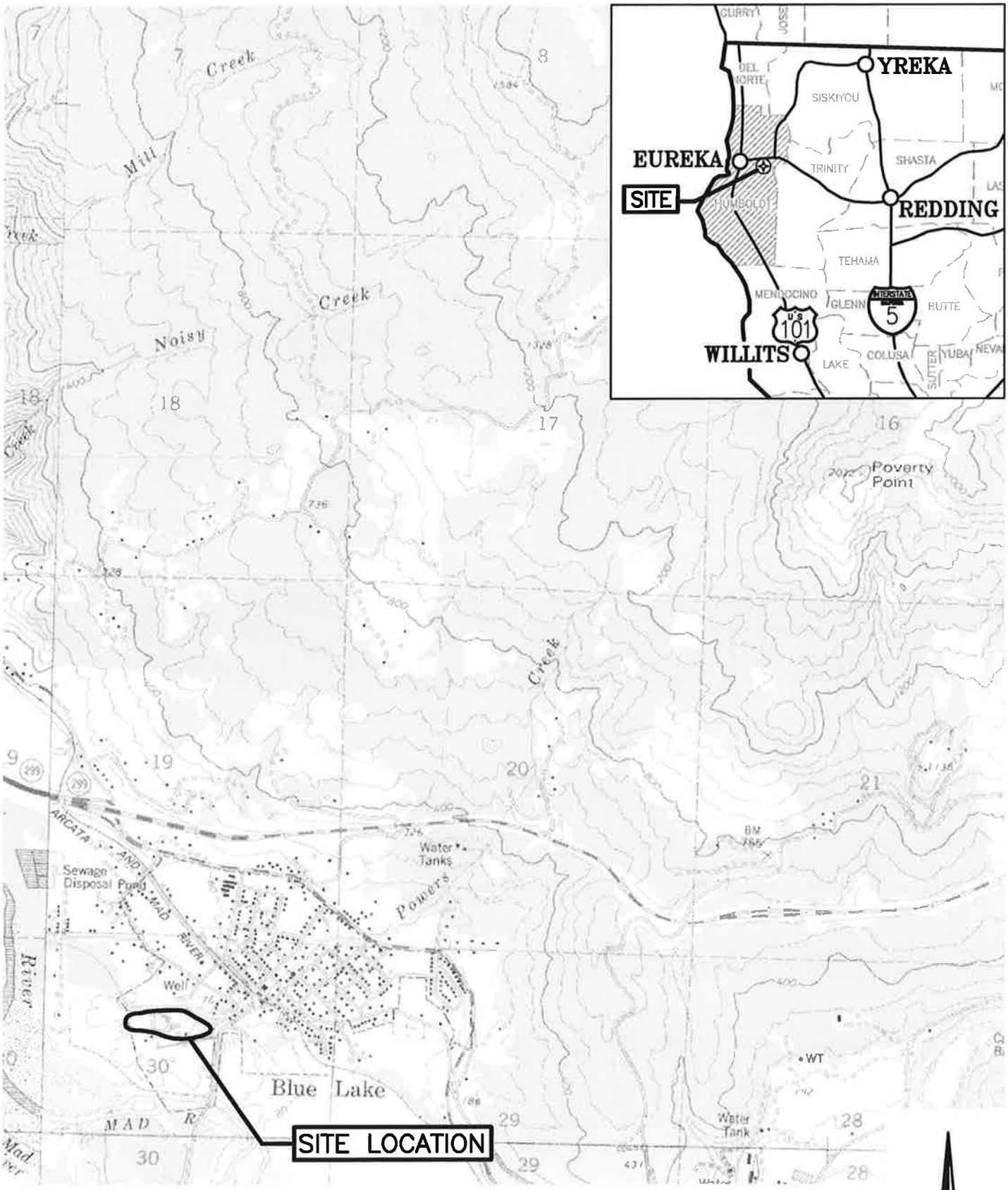
2.0 Site Description

2.1 Location and Legal Description

The subject parcels of land being investigated are situated within the City of Blue Lake, and within the Blue Lake Business Park, which is located in the southern portion of the city, adjacent to Taylor Way and Monda Way (Figure 1). The subject parcels are situated within Section 30, Township 6 North, Range 2 East, Humboldt Base and Meridian, and is comprised of the following Humboldt County Assessor's Parcel Numbers (APNs):

- APN 025-201-002 (approximately 1.49 acres)
- APN 025-201-006 (approximately 0.67 acres)
- APN 025-201-009 (approximately 0.68 acres)
- APN 025-201-019 (approximately 0.65 acres)
- APN 312-161-015 (approximately 3.28 acres)
- APN 312-161-018 (approximately 0.93 acres)

The City of Blue Lake is currently listed as the owner of these subject parcels, which are all situated within the Blue Lake Business Park (Figure 2). The tentative subdivision map (Appendix C) shows the proposed parcels, easement, and existing utilities.



SOURCE: BLUE LAKE USGS 7.5 MINUTE QUADRANGLE

1"=2000'±

SHN Consulting Engineers & Geologists, Inc.	City of Blue Lake Blue Lake Business Park Blue Lake, California	Site Location Map Phase I ESA SHN 011003.401	
	May 2011	011003.401-SITE-LCTN	Figure 1

\\Eureka\projects\2011\011003-BlueLake\401-Bus-Park-Ph-I\Dwgs

Image Source: Google Earth
Imagery Date: October 13, 2010

SHN Consulting Engineers & Geologists, Inc.	City of Blue Lake Blue Lake Business Park Blue Lake, California	Site Map Phase I ESA SHN 011003.401
	May 2011 \\Eureka\projects\2011\011003-BlueLake\401-Bus-Park-Ph-I\Figs\Figure 2.doc	Figure 2

The subject parcels are zoned Light Manufacturing (ML) and Industrial (M). The purpose of this type of zone is to provide an environment where unique industries and businesses that may be compatible with other uses can operate and cooperate with each other with minimum restrictions while having minimum adverse effects on adjacent land uses.

2.2 Vicinity and Site General Characteristics

The City of Blue Lake is located approximately 10 miles northeast of Eureka, south of U.S. Highway 299, and north of the Mad River. The city has a small downtown business district, a variety of home-based businesses throughout the city, as well as the Blue Lake Business Park. The focus of this Phase I ESA is on five of the City-owned parcels situated within the business park. The total acreage of the subject parcels situated within the business park is 40 plus acres.

Site elevations range between approximately 80 and 85-feet above Mean Sea Level (MSL), and the area generally slopes to the west and northwest to Powers Creek. The western subject parcels have a soil berm constructed adjacent and parallel to Taylor Way (southern side of the subject parcels), which currently prevents surface drainage from empting onto Taylor Way. A portion of the eastern parcels drain to Monda Way, where there are Drainage Inlets (DIs). The corporation yard drains to Taylor and Monda Way, where there is a drop inlet.

On the north side of Powers Creek are residences, and then further north are the residential, commercial, and public facilities. The North Fork of the Mad River is situated south of the business park approximately 500 feet, and there is a levee that was constructed within the business park to contain the Mad River. Hatchery Road is situated to the east, and is the main access road into the business park and Taylor Way, which runs through the business park.

Historic uses of the subject parcels included the McIntosh Lumber Mill, which shut-down in the late 1970s. Current businesses that are adjacent to the subject parcels include Tomasos Specialty Foods, Fish Brothers, Sjaacks Chocolates, the Mad River Brewing Company, Sawatzky, Del Arte School, Mad River Woodworks; Wallace & Hines Manufacturing and Design; Calgon Carbon, and Blue Lake Power (Figure 2). Blue Lake Power Company produces energy using biomass incineration, and roughly 92,000 megawatts are produced yearly powering an average of 7,000 homes. Calgon Carbon Corporation reactivates carbon in order to sell to municipal and commercial consumers for treating water. Thermal treatment is used to remove chemical constituents from the carbon producing a regenerated activated carbon to be used for treating drinking water. Mad River Brewing Company (also located in the park) brews and bottles beer on site; the facility also contains a small tasting room for customers.

2.2.1 General Observations

During SHN's site reconnaissance on April 22, 2011, Patrick Barsanti and Michael Foget walked the subject sites, and took photographs of the areas observed (Appendix A).

City Corporation Yard (AP# 025-201-019 and 025-201-009)

SHN started its site walk on Monda Way, and began by looking at the western side of the corporation yard (APN 025-201-019 and 025-201-009), which has the double-wide office trailer. The corporation yard is surrounded by chain link fencing, and on its western side there is curb and

gutter with a grass buffer strip between. Also, there is a locked access gate leading into the facility from Monda Way. The northern side of the corporation yard is being used as an outside material storage area, and equipment parking area.

The northern adjacent parcel (APN 025-201-018) is a contractor's yard (Sawatzky), with a building and partially overgrown yard. Beyond and north of the building is the city lift station (APN 025-201-001), which is situated on City-owned land (utility easement). East of the corporation yard is the Mad River Woodworks and the Mad River Brewing Company (APN 025-201-010, -011, -020, and -021). Southeast across Taylor Way from the corporation yard is a City-owned parcel, formerly J&S Stakes, and to the southeast is Wallace and Hinz (privately owned). South across Taylor Way is Blue Lake Power (APN 025-161-003, -004; and 312-161-016, and -019), which is City-owned. West across Monda Way is Sjaacks Chocolates, which was a City-developed parcel (APN 025-201-007), and an undeveloped parcel (APN 025-201-006). The undeveloped parcel on the west side of Monda Way has a plan for development (SHN, 2008).

The corporation yard is fenced. The gate is normally closed and has an electronic key pad opener. Inside the southeast corner of the yard is the fueling area, which consists of two, 500-gallon Aboveground Storage Tanks (ASTs), within a concrete block secondary containment structure. The ASTs contain gasoline and diesel, and are both horizontal cylindrical steel tanks setting on saddle supports. The single-wall steel fuel piping is routed above grade and inside the containment to the dispenser. There are three dispensers currently present, but only two are connected to the piping and ASTs. SHN noted some surface staining near the dispenser area.

In the north central portion of the southern corporation yard parcel (APN 025-201-009), there is a large wood structure shop building that has metal roofing and steel roll-up overhead doors. This shop was the former truck shop for the mill which has been around since the early 1950s. Inside the first bay of the shop, there was once a mechanics pit, the pit is now filled with concrete. The shop has a restroom with a toilet, sink, and shower, and the northern side of the shop is an open sided shed that serves as material storage.

SHN did not observe any other evidence of above or underground tanks, vents, protruding pipes, or stressed vegetation within the corporation yard.

City Parcel (APN 025-201-002)

Northwest of Monda Way is a City-owned parcel (APN 025-201-002). A gravel access road leads northward into the heavily vegetated parcel, where there are several piles of green waste, soil, and construction debris. This is the City's dumping area for solid materials; the debris included asphalt, concrete, gravel, soil, pieces of creosoted piles, painted wood, metal scraps, and green waste. Based upon historic maps, this parcel is the location of the former log pond, which has been filled.

North of APN 025-201-002 is a City-owned parcel that contains the undeveloped fire lane and Powers Creek. South and west of the parcel is the business park parcels. East of the parcel is the utility easement with water, sewer, and storm drain piping.

SHN did not observe any other evidence of above or underground tanks, vents, protruding pipes, or stressed vegetation within this parcel; however, a portion of this parcel is heavily vegetated; therefore, the surface could not be thoroughly inspected.

City Parcel (APN 025-201-006)

On the west side of Monda Way is a City-owned parcel (APN 025-201-006). SHN observed that the parcel appeared to have been previously graded, and it was vegetated mostly with grass. The boundary with the northern parcel is not clearly marked; therefore, it was not clear if the debris near the northwestern corner is on this particular parcel or the northern parcel. Based upon historic maps and the previous soil investigation, this parcel is the location of the former log pond, which has been filled.

North of the subject parcel is a City-owned parcel that contains the City's dumping area. East of the parcel is Monda Way, which has below grade water, sewer, and storm drain piping. A cleanout plug was observed near the curb on Monda Way, and it was protected with a Polyvinyl Chloride (PVC) riser pipe.

SHN did not observe any other evidence of above or underground tanks, vents, protruding pipes, or stressed vegetation within this parcel; however, a portion of this parcel is heavily vegetated; therefore, the surface could not be thoroughly inspected.

City Parcel (APN 312-161-015)

North of Taylor Way is a City-owned parcel (APN 312-161-015), which is vegetated with grasses and brush. During the site walk, we observed the former concrete log dump structure, which is situated on the northern side of the parcel. Based upon historic maps much of this parcel has a filled in log pond.

North of APN 312-161-015 is a City-owned parcel that contains the undeveloped fire lane and Powers Creek. West and east of the parcel are business park parcels. On the west end of the parcel is a utility easement, and to the southwest is the lift station. South of the parcel is Taylor Way, and across Taylor Way is Blue Lake Power. Taylor Way has curb and gutter, and on the subject parcel's southern boundary (adjacent and parallel to Taylor Way) is a utility easement and a vegetated soil berm.

SHN did not observe any other evidence of above or underground tanks, vents, protruding pipes, or stressed vegetation within this parcel; however, a portion of this parcel is heavily vegetated; therefore, the surface could not be thoroughly inspected.

City Parcel (AP# 312-161-018)

North of Taylor Way is a City-owned parcel (APN 312-161-018), which is vegetated with grasses and brush. During the site walk on this parcel, we observed the northern fence line and adjacent areas. Based upon historic maps, a portion of the former log pond was located on this parcel.

North of the parcel is a City-owned parcel that contains the undeveloped fire lane and Powers Creek. East of the parcel is the business park parcels. On the east end of the parcel is a utility easement, and to the southeast is the lift station. South of the parcel is Taylor Way, and across Taylor Way is Blue Lake Power. Taylor Way has curb and gutter, and on the parcel's southern boundary (adjacent and parallel to Taylor Way) there is a utility easement and a vegetated soil berm.

2.3 Utility Features

2.3.1 Sewer

The City corporation yard southern parcel (APN 025-201-009) is serviced by the City of Blue Lake's sanitary sewer system. The main sewer line traverses below Monda Way to a manhole and then to the lift station north of the parcel; therefore, it is uncertain if APN 025-201-019 has a stub out to the property line.

It is also uncertain if APN 025-201-002 has a sewer connection stubbed out to the curb and connecting into the City's sewer system; however, the main sewer line traverses below Monda Way to the sewer manhole, and then to the lift station east of the parcel.

APN 025-201-006 has a sewer connection stubbed out to the curb, which connects into the City's sewer system.

APN 312-161-015 is not currently connected into the City's sewer system; however, the main sewer line traverses below the utility easement (north of Taylor Way), but the lift station is not operational. According to the sewer maps, this parcel is served by an 8-inch sewer line that discharges into a manhole #107), which empties into the lift station. From the lift station, a 4-inch force main will transfer the sewage to manhole #105, from which the waste will gravity flow to the lift station north of Monda Way. The lift station does not have any pumps installed; however, when the lift station becomes operational, the pumps will transfer the waste into the existing 4-inch force main.

APN 312-161-018 is not currently connected into the City's sewer system; however, the main sewer line traverses below the utility easement (north of Taylor Way), but the lift station is not operational. According to the sewer maps, this parcel is served by an 8-inch sewer line that discharges into a manhole #107, which empties into the lift station. From the lift station, a 4-inch force main will transfer the sewage to manhole #105 from which the waste will gravity flow to the lift station north of Monda Way. The lift station does not have any pumps installed yet; however, when the lift station becomes operational, the pumps will transfer the waste into the existing 4-inch force main.

2.3.2 Water Supply

The southern corporation yard parcel (APN 025-201-009) is connected into the City of Blue Lake's water system. The corporation yard's northern parcel (APN 025-201-019), has a 1½-inch water connection to the meter.

APN 025-201-002 is not currently connected into the City's potable water system; however, there is an 8-inch water line below Monda Way.

APN 025-201-006 is connected into the City's potable water system, with a 1½-inch water line.

APN 312-161-015 is not currently connected into the City's potable water system; however, there is a 10-inch water main below the utility easement north of Taylor Way.

APN 312-161-018 is not currently connected into the City's potable water system; however, there is a 10-inch water main below the utility easement north of Taylor Way.

A fire hydrant is located on Monda Way and there are four hydrants located along Taylor Way.

Water is supplied to this business park area by the City of Blue Lake, and the water is treated and tested on a routine basis as required by the State of California Department of Health Services (DHS) and the EPA.

A water supply well was shown on APN 025-201-002, in a previous soils report (NGS, 1981); however, during the site walk this well was not located. According to a consultant for the City's Public Works Department, the well was abandoned properly.

2.3.3 Storm Water

SHN observed a municipally developed storm drain system for the business park, which is situated below Taylor Way and Monda Way. DIs are situated on each side of the intersection of Taylor Way and Monda Way, and a DI on the northern edge of the turn-around on Monda Way. Additionally, there is a 10-inch storm drain pipe below Monda Way that eventually discharges north to Powers Creek. SHN observed a couple of DIs on the western end of Taylor Way that empty into a 36-inch below grade storm drain system, which traverses northward across s City-owned parcel to Powers Creek (Appendix C).

There is no developed storm drain system on any of the subject parcels; however, there is a storm drain system at Monda Way and Taylor Way. Additionally, there is an easement for the lift station and utility easement (storm drain) on APN 312-161-015.

2.3.4 Electricity

Pacific Gas & Electric Company (PG&E) provides power underground to the business park from the utility easement along Taylor Way and Monda Way. Additionally, there are below grade electrical vaults, one of which is situated at the northeast corner of Monda Way and Taylor Way. Light poles are also situated along Taylor Way. No older liquid type transformers were observed during the site walk, on or adjacent to the subject parcels.

Based upon interviews, the gas and electric may not have been extended west of the Fish Brothers parcel (APN 025-201-016).

2.3.5 Natural Gas

Natural gas is provided by PG&E to the industrial park; however, it does not extend to the western subject parcels. The utility map shows a natural gas line situated in the utility easement north of Taylor Way, and a 3-inch gas line crosses Monda Way.

2.4 Current Uses of Adjoining Properties

APNs 025-201-009 and -019 include the corporation yard, office trailer, shop, and material storage yard. To the north is property owned by Sawatzky, and to the northeast is property owned by

Almquist. Almquist also owns the eastern adjacent property. Taylor Way is situated to the south, and across Taylor Way is Blue Lake Power, which is owned by the City. West of these parcels is Monda Way, and across Monda are parcels owned by the City.

APN 025-201-002 includes a vacant parcel, which is accessed from Monda Way. To the north is property owned by the City and includes the business park fire lane (not yet developed), and Powers Creek. To the east are Monda Way and the utility easement and lift station. South are the business park parcels, some developed (Tomasos Specialty Foods, Fish Brothers, Sjaacks Chocolates), and some parcels remain undeveloped.

APN 025-201-006 includes a vacant parcel, which is accessed from Monda Way. To the north is property owned by the City. This parcel has a plan for development of a proposed 4,000-square foot structure on the southern parcel leased by Sjaacks Chocolates (APN 025-201-007); however, the proposed tenant backed out and proposed development did not occur.

APN 312-161-015 includes a vacant parcel, which is accessed from Taylor Way. To the north are the business park fire lane (not yet developed) and the creek. To the east is APN 025-201-002, and to the south is the utility easement north of Taylor Way.

APN 312-161-018 is a vacant parcel that is accessed from Taylor Way. To the north are the business park fire lane (not yet developed), the creek, and a vegetated and vacant parcel, which is not part of the business park. To the east is one of the subject parcels, and to the South is the utility easement and Taylor Way.

3.0 User Provided Information

3.1 Environmental Liens or Activity and Use Limitations

The City of Blue Lake, current owner of the subject properties, provided SHN with information indicating that there were no environmental liens and/or deed restrictions associated with environmental concerns regarding the subject property. Additionally, the Users Questionnaire indicates the same (Appendix E). The City of Blue Lake completed a site assessment questionnaire indicating that there are no liens or deed restriction on any of the subject parcels. There are utilities that exist below the streets and within the utility easements, which are located north of Monda Way and north of Taylor Way, between two subject parcels (Appendix C).

3.2 Specialized Knowledge

The users of this Phase I ESA, the City of Blue Lake, were not provided with any specialized knowledge or experience that is material to RECs in connection with the subject property. The City is aware that there was a former log pond that has been filled; and that there were historic fueling operations at the corporation yard.

3.3 Valuation Reduction for Environmental Liens

The current owner, the City of Blue Lake, indicated that the purchase price of a subject parcel (if the parcel were to be sold) would not be significantly less than the purchase price of comparable properties, due to environmental liens or other RECs.

3.4 Owner, Property Manager, and Occupant Information

Table 1 Current Property Use Information Blue Lake Business Park, Blue Lake, California	
Current Property Owner and Property Manager	
Name: City of Blue Lake	Phone Number: 707-668-5655
Mailing Address: P.O. Box 458, Blue Lake, CA 95525	
Current Occupants	
Name: City of Blue Lake-Corporation Yard APNs 025-201-009 and -019	Phone Number: 707-668-5655
Mailing Address: P.O. Box 458, Blue Lake, CA 95525	
Name: City of Blue Lake	Phone Number: 707-668-5655
APN 025-201-002	
Name: City of Blue Lake	Phone Number: 707-668-5655
APN 025-201-006	
Name: City of Blue Lake	Phone Number: 707-668-5655
APN 312-161-015	
Name: City of Blue Lake	Phone Number: 707-668-5655
APN 312-161-018	

3.5 Reason for Performing the Phase I ESA

This Phase I ESA is being performed at the request of the City of Blue Lake, to assess the subject site and immediately adjacent areas in support of the sale or lease of property within the business park and to address environmental concerns (if any) prior to development.

4.0 Records Review

4.1 Standard Environmental Record Resources

Using the ASTM Standard Practice E 1527-05 recommended search radii; SHN authorized EDR, located in Milford, Connecticut, to perform a review of federal and state agency databases that track sites with known hazardous materials contamination (Appendix D). EDR did not identify any potential or confirmed state or federal "Superfund" sites located on or within 1 mile of the subject property during its review of the EPA's CERCLIS and NPL databases. In addition, the subject property does not appear on the EPA's Emergency Response Notification System (ERNS) database, or contain any businesses or facilities that are listed as Resource Conservation and Recovery Act (RCRA) generators.

Again using the ASTM Standard Practice E 1527-05 recommended search radii, both EDR and SHN reviewed databases regarding hazardous materials contamination that are maintained by the following agencies:

- EPA
- Department of Toxic Substances Control (DTSC)
- Office of Environmental Health Hazard Assessment

- Regional Water Quality Control Board, North Coast Region (RWQCB)
- State Water Resources Control Board (SWRCB)
- California Integrated Waste Management Board (CIWMB)
- DHS Office of Drinking Water
- California Division of Oil and Gas
- Corrective Action Report
- Resource Conservation and Recovery Information System
- HCDEH
- The City of Blue Lake Public Works, Planning, and Building Department

The corporation yard parcel was identified as containing hazardous materials contamination during EDR and SHN's database review.

4.2 Physical Setting

4.2.1 Regional Geology

The site lies on an abandoned fluvial terrace composed of Holocene age alluvium deposited by the Mad River (Kilbourne, 1985). Alluvium typically consists of poorly consolidated gravel and coarse sand overlain by finer grained overbank deposits. Bedrock in the uplands above the site consists of the Falor Formation, an Upper Pliocene to Middle Pleistocene age assemblage of near shore marine and deltaic sandstone, siltstone, and claystone (with minor amounts of limestone and pebbly conglomerate), and the Franciscan Formation mélange. The mélange is part of the Central belt subunit of the Franciscan Complex, and typically consists of blocks of conglomerate, graywacke sandstone, radiolarian chert, blueschist facies metamorphic rock, greenstone, and ophiolitic plutonic rock in an intensely sheared argillite matrix.

4.2.2 Soils

Soils at the site are derived from alluvium, and are likely composed of silt and clay near the surface (silt loams, silty clay loams), and sand and gravel at depth (gravelly sand, sandy clay loam or sand). These soils are moderately well to well-drained, with moderate infiltration depths. This information is based on the United States Department of Agriculture (USDA) Soil Conservation Service (SCS) State Soil Geographic (STATSGO) data, which is included in the EDR Database (Appendix D).

Much of these parcels (APNs 025-201-002, 025-201-006, 312-161-015, and 312-161-018) footprints historically consisted of a log pond for mill operations, which was later filled. Subsurface investigation logs indicate approximately 9 feet of fill material within the filled log pond described as gravel, sand, wood debris, bark, and burner cinders (NGS, 1981).

On APN 025-201-006, geotechnical borings indicate as much as 13 feet of fill material, described as gravel, sand, silt, clay, charcoal, asphalt chunks, and wood debris present in the fill, with gravel, sand, silt, clay, asphalt pieces, pipe pieces, and "junk" in the upper 3 feet of fill material (SHN, 2008). Subsurface investigation logs from parcels surrounding the subject parcels outside the boundaries of the filled log pond were described as river run gravels with interbedded sands and silts or fill; described as gravel, sand, and silt with wood debris and bark or layers of bark (NGS, 1981).

4.2.3 Hazards

4.2.3.1 Seismic Hazards

The subject parcels do not lie within an Alquist-Priolo Fault Zone. However, they are subject to strong seismic shaking from several sources along the North Coast, where more than 60 earthquakes have produced discernable damage in the region since the mid-1800s (Dengler et al., 1992). The closest mapped faults to the site belong to the Mad River fault zone (MRfz). Major faults within the MRfz include (from north to south), the Trinidad, McKinleyville, Mad River, and Fickle Hill faults. Only one historic earthquake, occurring in December 1954 with a magnitude of 6.5, may be attributable to the MRfz. However, the potential exists for larger earthquakes to occur on these faults (Dengler et al., 1992).

The Cascadia Subduction Zone, located offshore of Humboldt County, represents the most significant potential seismic source in the north coast region. A great subduction event may rupture along a large section of the coast from Cape Mendocino to British Columbia, may be up magnitude to M9.5, and could be associated with extensive tsunami inundation in low-lying coastal areas. The April 25, 1992, Petrolia earthquake (magnitude M7.1) appears to be the only documented historic earthquake involving slip along the subduction zone, but this event was confined to the southernmost portion of the fault. Paleoseismic studies along the subduction zone suggest that great earthquakes are generated along the zone every 300 to 500 years. The last large subduction earthquake occurred in 1700.

4.2.3.2 Flood Hazard

The subject parcels are approximately 500 feet north of the Mad River. The subject parcels are situated north of the Mad River and the levee, and the parcels are situated on an old fluvial terrace. Due to the construction of the levee, the subject parcels do not lie within the 100-year flood zone as designated by Federal Emergency Management Agency (FEMA). However, it appears to be situated within the 500-year flood zone.

On April 26, 2011, FEMA sent the City of Blue Lake a letter regarding the need for a new set of guidelines for mapping flood hazards behind non-accredited levees, which should be developed by the end of 2011 (Appendix C).

4.2.4 Regional Groundwater

The site is situated within the North Coast Regions, Mad River Hydrologic Unit and the Blue Lake Hydrologic Area (HA 109.10).

Groundwater beneath the site is assumed to be moving south/southwest toward the Mad River, which is approximately 500-feet to 700-feet south of the subject parcels. Based on the presence of well-drained soils with moderate water holding capacity, the groundwater depth is likely below 15-feet Below Ground Surface (BGS). Groundwater levels fluctuate seasonally, and are lowest during the summer months (possibly 15- to 20-feet BGS). Groundwater was present at 19 feet BGS in one deep geotechnical boring on APN 025-201-006 in May 2008 (SHN, 2008).

4.3 Historical Land Use of the Subject Property

4.3.1 Aerial Photographs

SHN reviewed aerial photos at the subject property taken during the past 60 years (Appendix B). Photos are from the EDR collection, Shuster collection, and the Humboldt County Department of Public Works collection, for the years 1941, 1947, 1948, 1950, 1954, 1958, 1966, 1969, 1974, 1981, 1988, 1993, 1996, 2000, 2007, and 2009. The reviewed aerial photographs reveal that the business park area was first developed in the mid to late 1940s, and was part of the McIntosh Lumber Mill facility, which was constructed around 1946 or 1947. The subject parcels appear to be situated over the former log pond, and the mill truck shop still exists and is being used as the corporation shop.

4.3.1.1 1941 Aerial Photograph

The 1941 aerial photograph is of good quality and shows that the subject parcels are mostly vacant fields. Powers Creek is visible north of the subject parcels. Hatchery Road is visible to the east, and a vacant field is situated further east. The mill and log pond have not been constructed, and there appears to be a farm house situated near Hatchery Road, east of the subject parcels.

4.3.1.2 1947 Shuster Aerial Photograph

The 1947 Shuster aerial photo shows the mill site, which appears to have been graded. There are a few buildings on site, and the teepee burner and one of the other buildings appear to be under construction. The mill has a small log deck on the southern end, and a few lumber stacks in the central yard area. The truck shop has not been constructed and there are no log ponds.

4.3.1.3 1948 Aerial Photograph

The 1948 aerial photograph is of poor quality and shows that the mill may be operational. Powers Creek appears to be north of the mill, and the truck shop does not appear to have been constructed yet. Hatchery Road is visible to the east, and a vacant field is situated further east. In the northwestern mill area, the log pond may be present. The milling operations appear to be southeast of the subject parcels. The North Fork of the Mad River is further south and the Mad River is visible further southwest. The levee south of the subject parcels is not visible.

4.3.1.4 1950 Shuster Aerial Photograph

Photographs from the 1950 Shuster collection shows the McIntosh Lumber Mill is in full operation. The log pond is clearly visible in the northwestern area of the mill site, and there is a smaller pond connecting into it, allowing the logs to be floated to the sawmill, which is situated in southeastern portion of the mill site. The truck shop is clearly visible in these photographs, as is the teepee burner. The teepee burner is adjacent to the sawmill situated in the southeastern portion of the site. This photo shows that the levee may be present on the southern edge of the mill. Also, the Mad River is visible further south, and based upon the photo it appears that the Mad has overflowed its banks and emptied northward into its North Fork. The Mad River appears to have somewhat changed its course (south versus southwest).

4.3.1.5 1954 Aerial Photograph

The 1954 aerial photograph is of good quality and shows Powers Creek north of the subject parcels. The mill occupies the entire business park area, and is in full operation. South of the subject parcels the North Fork of the Mad River is visible, and Mad River appears further south. It appears that the levee is present along the southern edge of the mill site. The former mill truck shop, now situated in the corporation yard shop, is visible. The log pond on the northwestern side of the mill has logs. There is also a teepee burner in the southeastern portion of the mill facility.

4.3.1.6 1958 Aerial Photograph

The 1958 aerial photograph is of medium quality and shows Powers Creek north of the subject parcels. The mill occupies the entire business park area, and is in full operation. South of the subject parcels, the river is visible, and it appears that the levee is present. The former mill truck shop, now situated in the corporation yard, is visible, as is the log pond. It appears that a rail line from Railroad Avenue traverses into the mill from the northeast.

4.3.1.7 1966 Aerial Photograph

The 1966 aerial photograph is of medium quality and shows Powers Creek north of the subject parcels. The mill occupies the entire business park area, and appears to be operating. South of the subject parcels, Taylor Way is not visible; however, the levee and the river are visible. The former mill truck shop is visible.

In the 1966 Shuster aerial photo, the log pond area is clearly visible. The western portion of the pond has been filled in, and there is only a small portion left, which contains water and it is situated in then north central area of the mill. A new mill appears to have been reconstructed in the northern area, just south of the log pond. The southern mill buildings appear to have been demolished and the operations moved to the northwest. It appears that the teepee burner in the southeastern mill area is no longer operational; however, there appears to be two other teepee burners that have been constructed, immediately west and south of the new mill. The truck shop is visible east of the new mill, and the levee and Mad River are visible further south. It appears that a rail line from Railroad Avenue traverses into the mill from the northeast.

4.3.1.8 1969 Aerial Photograph

The 1969 aerial photograph is of good quality and similar to the 1966 aerial. The photo shows Powers Creek, north of the subject parcels; and the new mill, which was reconstructed in the northwestern area of the site. The mill occupies the entire business park area, and is in full operation.

South of the subject parcels, Taylor Way is not visible; however, the levee and the river are visible. The former mill truck shop is visible. There are log decks situated throughout the yard, and portions of these decks are situated over a portion of the former log pond area. The pond appears to be filled in, except for a portion situated in the north central area of the mill.

4.3.1.9 1974 Aerial Photograph

The 1974 aerial photograph is of medium quality and shows Powers Creek north of the subject parcels. The mill occupies the entire business park area, and appears to be operating. This photo is similar to the 1969 aerial, except that the railroad spur is not visible.

4.3.1.10 1981 Aerial Photograph

The 1981 aerial photograph is of poor quality and shows Powers Creek north of the subject parcels. The mill to the south appears to be shut down, and the subject parcels appear somewhat vacant, except the former truck shop is present. South of the subject parcels, Taylor Way is not visible; however, the levee and the river are visible.

4.3.1.11 1988 Aerial Photograph

The 1988 aerial is a good quality photo and shows the subject parcels. Monda Way is situated between two of the subject parcels, and Taylor Way is situated south of the subject parcels. It does not appear that Taylor Way or Monda Way have been fully developed with curb and gutter; however, the streets have been established. The former truck shop (corporation yard) is visible; however, the parcels to the east have not been developed, except for the structure situated on the northeast corner of the area, east of Hatchery Road and north of Taylor Way. The subject parcels west of Monda Way appear vegetated with short grasses, and there does not appear to be any development that has occurred in the business park west of Monda Way. South across Taylor Way the parcels have been developed and there are businesses that are operating (Almquist Lumber, J&S Stake, and Ultrapower #3).

4.3.1.12 1993 Aerial Photograph

The 1993 aerial photo is of good quality and shows the subject parcels (similar to 1988), except that a one of the business park parcels, west of Monda Way, has been developed. This photo shows that the former truck shop still exists, and the former log pond is vegetated with grass cover. The unimproved fire lane and Powers Creek are visible to the north, and Taylor Way and Monda Way are visible to the south. Taylor Way appears to be an improved street with curb and gutter. North of the corporation yard is a private contractors yard, and it appears that the building has been constructed. Also, it appears that the J&S Stakes facility is operational, south across Taylor Way, as is the former Ultrapower facility. Further south is the levee and the river.

4.3.1.13 1996 Aerial Photograph

The 1996 aerial shows the site and surrounding areas similar to the 1993 aerial photo.

4.3.1.14 2000 Aerial Photograph

The 2000 aerial is of medium quality and shows the subject parcels and surrounding areas, which are similar to the 1996 aerial photo. It is not clear if Monda Way has been fully improved, and there are access roads traversing to the northeast and northwest from Monda Way.

4.3.1.15 2007 Aerial Photograph

The 2007 Google aerial photos show the subject parcels similar to what exists today. North of the subject parcels is the City-owned parcel with the undeveloped fire lane and Powers Creek. East of the corporation yard is the Mad River Brewing Company and the Mad River Wood Works, and west is Monda Way and other business park parcels. South of the subject parcels are Taylor Way and Blue Lake Power, and further south are the levee and the river.

This photo shows that a portion of the former log pond is heavily vegetated, with a few trails leading into the brush. There are three businesses that have been developed in the business park that border Taylor Way. The corporation yard is developed, and the shop is still present. Taylor Way and Monda Way are improved streets with curb and gutter and paved streets.

4.3.2 Sanborn Maps

Sanborn maps are not available for this area; there were no historical industrial facilities that ordered the service.

4.3.3 Topographic Maps

SHN reviewed a USGS topographic map with coverage of the subject property that was published in 1948, 1951, and 1979 (Appendix B). The maps reviewed were USGS 7.5 and 15 Minute Series, Blue Lake, topographic maps.

The 1948 topographic maps show the subject parcels and immediately surrounding areas as being undeveloped. Powers Creek is shown north of the subject parcels and the northern portion of the Mad River is south and adjacent to the business park. The dashed lines are unimproved roads, and Hatchery Road appears to be traversing southward, crossing the river.

The 1951 topographic map shows mill structures, southeast of the subject parcels. Additionally, the mill pond is visible in the northwestern portion of the former mill, and within the western subject parcels. Powers Creek is visible north of the subject parcels, and Hatchery Road is now an improved road as depicted on the topographic map.

The 1979 topographic map shows Powers Creek to the north, Hatchery Road to the east, and the river to the south. There are structures situated in the business park area, and a small pond appears to be situated in the north central area of the park. The levee is depicted in this topographic map.

4.3.4 Business Directories

The Polk City Business Directories were not reviewed for this ESA, because the names of the business and the history of the area were known, and further research was not needed to determine the historic use of the area.

4.3.5 HCDEH Records

A review of HCDEH's files indicates that former underground or aboveground fuel storage tanks have been permitted for this site. There are no current violations have been reported or previous violations that have not been addressed with regard to releases or spills of toxic or hazardous waste. SHN's review of the files for the surrounding sites is discussed is Section 4.4, below.

4.3.6 Building Department and Planning Department Records

A review of the City of Blue Lake's building and planning records was made on May 4, 2011. SHN interviewed the City Engineer, City Manager, and City Planner, and reviewed appurtenant City files. A draft environmental impact report was also reviewed in regard to creating the Blue Lake Business Park.

4.3.7 Zoning

North of Taylor Way the subject parcels are zoned ML (limited industrial). To the west of Monda Way, the corporation yard parcels are zoned PF (public facility). The Blue Lake Power facility, located south of Taylor Way is zoned M (Industrial). Uses in this zone are to be located and designated in such a manner that they do not impact adjacent sites, and are not adversely impacted by adjacent uses. Site uses for the current business park include manufacturing and processing, and commercial services. The Blue Lake Business Park has other regulations and site specific guidelines that are covered in the Blue Lake Zoning Ordnance (Appendix C).

4.3.8 Continuous Site History

In 1941, the subject parcels appear to be farmland, with a farmhouse situated on the eastern side of the business park, and adjacent to Hatchery Road. In the 1948 aerial photograph, the McIntosh Lumber Mill is located in the southeastern area of the business park, and appears to be operational. Sometime between 1959 and 1966, the mill was reconstructed in the north central portion of the business park area.

Around 1979, the mill was shut down and various facilities were removed. Mill facilities included a sawmill, planer mill, truck shop, a log pond, log and lumber storage, and teepee burners. Reportedly, the mill did not use wood treatment chemicals, and there were no dip tanks or spray systems.

Currently, the business park includes, the City corporation yard, a power plant, a carbon generating facility, wood working facilities, a brewing company, and light industry and businesses with rental space available for non-retail use.

Table 2 presents a continuous site history, based upon SHN's limited research and from the ESA Questionnaires.

Table 2 Site History Blue Lake Business Park, Blue Lake, California			
Date	**Business Name**	**Operations**	**Site Owner**
Mid-1949 to 1979	McIntosh Lumber Company	Lumber Milling	McIntosh Lumber Company
Early 1980s to present	City of Blue Lake Business park	Business Park Parcels and Corporation Yard	City of Blue Lake

4.3.9 Data Gaps

The ASTM Standard E 1527-05 guidance document states that one of the objectives of a Phase I ESA is to identify the subject property's usage back to the property's first developed use, or back to 1940, whichever is earlier. The site was farmland prior to development in 1949, so SHN has satisfied this requirement.

Interviews with the current owner's representatives were also satisfied, because the current owner is the City of Blue Lake, which has been the owner of the subject parcels since the early 1980s. No significant data gaps were identified in the preparation of this Phase I ESA.

4.4 Historical Use Information on Properties in Surrounding Area

The target property was listed on one or more of the databases searched by EDR (Appendix D). There were "mapped sites" found in the 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 local, state, and federal databases listed in the EDR report.

Both SHN and EDR identified 12 facilities located within a ½-mile radius of the subject property that are known or suspected to have experienced unauthorized hazardous materials releases, including Leaking Underground Storage Tanks (LUSTs).

Of these 12 facilities, 6 are located within ⅛-mile from the subject property. These six facilities are shown in bold type in Table 3, and are further discussed in this section. The remaining agency-listed facilities are located greater than ¼-mile away from the subject property.

Given their distance, these sites are considered unlikely to be a potential hazardous materials threat to the property, and as such, do not warrant further discussion.

Table 3 Agency-Listed Sites Within a One-Half Mile Radius Blue Lake Business Park, Blue Lake, California			
Site Name	**Address**	**Distance/Direction**	**Listing**
Calgon Carbon Corporation	**501 Hatchery Road**	**0 - 1/8 ESE**	**RCRA[1]**
Mick's Tractor Repair	**170 Hatchery Road**	**1/8 - ¼ ENE**	**RCRA**
Lundblade Property	441 Railroad Avenue	1/8 - ¼ ENE	HIST CORTESE[2], LUST[3], SWEEPS[4]
Jackson's Garage	630 Railroad Avenue	¼- ½ E	HIST CORTESE, LUST
Blue Lake Belting & Leather	411 Railroad Avenue	¼ - ½ NE	HIST CORTESE, LUST
Blue Lake Market	410 Railroad Avenue	¼ - ½ N	HIST CORTESE, LUST
Blue Lake Public Works Yard	**199 Taylor Way**	**0 - 1/8 SSW**	**LUST**
Big Oil & Tire Company	211 Railroad Avenue	¼ - ½ NE	LUST
Chevron #9-5504	698 Fourth Street	¼ - ½ ENE	LUST
Public Works Yard	**400 & 401½ Hatchery Road**	**0 - 1/8 E**	**HIST UST[5], SWEEPS**
Ultrapower #3	**200 Taylor Way**	**0 - 1/8 W**	**AST[6]**
J &S Stake	**150 Taylor Way**	**0 - 1/8 WSW**	**AST**

1. RCRA: Resource, Conservation, and Recovery Act Database
2. HIST CORTESE: Historic Department of Toxic Substances Control 's Hazardous Waste and Substances Site List - Site Cleanup Database
3. LUST: Leaking Underground Storage Tank Database
4. SWEEPS: State Water Resources Control Board, Underground Storage Tank Listing Database
5. HIST UST: Historic Underground Storage Tank Registered Database
6. AST: Aboveground Storage Tank (facilities database)

4.4.1 Agency Listed Site Discussion

The following sites are further discussed because of their proximity to the site (0 to 1/8 mile) and the potential for contaminant migration by surface-water and/or groundwater pathways. Regional groundwater flow in the area of the subject property is south-southwestward, toward the Mad River. Surface water flow presumably follows regional topography, which slopes to the southwest and northwest.

4.4.1.1 Calgon Carbon Corporation (File #452)

The Calgon Carbon Corporation is located at 501 Hatchery Road, and when operating the facility was classified as a large quantity generator, in the RCRA-Large Quantity Generator agency database. This site is also listed in the National Pollutant Discharge Elimination System (NPDES) permit program and Facility and Manifest (HAZNET) agency database. The facility was shut down for several years; however, it is now fully operational. When operating, the process generates gas scrubber waste, which is disposed appropriately at a landfill.

The HCDEH records indicate that approximately 500 gallons of scrubber sludge was released, due to a failure in the float switch in the sump. Sludge and impacted soil was mechanically removed,

placed in a container, and disposed of appropriately. This facility also has an air permit to operate and a hazardous materials business plan; the facility is also required to sample the site monitoring wells.

Because this facility is situated downslope and downgradient from the subject parcels, there appears to be a low risk that this site has impacted the soil or groundwater below the subject parcels.

4.4.1.2 Blue Lake Public Works, 199 Taylor Way (File #699)

The City of Blue Lake Public Works site at 199 Taylor Way appears on the LUST agency database. The file indicated that three Underground Storage Tanks (USTs) were installed at the site (dates unknown); however, the City only installed and used one of these. A gasoline UST leak was confirmed at the 199 Taylor Way location in 1988, and the site user stopped or ceased use of the tank at that time. The HCDEH (Case #12050) and the RWQCB (Case #1THU050), indicate that the groundwater aquifer was affected. The impacted area was excavated and the soil was remediated by spreading or land farming. The site had a reported closure date of May 19, 1993, and a regulatory enforcement letter dated September 12, 1996, was issued, which indicated that no further mitigation work was required.

4.4.1.3 Blue Lake Public Works (401 and 401½ Hatchery Road)

The Blue Lake Public Works site at 401 and 401½ Hatchery Road appears on a couple of different agency databases including the Historic Underground Storage Tank Registered Database (HIST UST) and the State Water Resources Control Board, Underground Storage Tank Listing Database (SWEEPS) database. This facility was situated on the east side of Hatchery Road, and based upon the distance from the site, there appears to be a low risk that this site has impacted the soil and groundwater below the subject parcels.

4.4.1.4 Ultrapower #3, 200 Taylor Way (File #245); Also Blue Lake Power

The Ultrapower #3 (Blue Lake Power) site is located at 200 Taylor Way, and appears on the Aboveground Petroleum Storage Tank Facilities (AST), HAZNET, NPDES, North Coast Unified Air Quality Management District (NCUAQMD) air permit, and California Waste Discharge System (CA WDS) agency databases. This site is situated south of the subject parcels, and contains a 10,000-gallon diesel AST. Additionally the site is listed as a HAZNET facility (waste category: unspecified oil-containing waste, and the disposal method is through a licensed recycler). The former Ultrapower #3 (Blue Lake Power) site is also listed as a CA WDS, which indicates that this facility had storm water runoff requirements, which is a minor threat to water quality. It was considered a Category C facility that had no waste treatment systems.

The Blue Lake Power facility is situated south, across Taylor Way. Based upon the file reviews, the facility has an air permit; a storm water permit; a lease from the City with specific requirements for testing the waste discharge and sampling the on-site monitoring well; a permit and spill prevention, control, and countermeasures plan that allow them to operate a diesel 10,000-gallon AST; and OSHA compliance.

There have been several complaints regarding noise, the potential for an off-site release of ash and woody debris, and releases of dark smoke from their stacks. Also, trucks coming through town to

and from the facility are an issue with some community members. However, there does not appear to be any negative effects from and environmental perspective. The Blue Lake Power facility is downgradient from the subject parcels; therefore, there appears to be a low risk that this site has impacted the soil and groundwater below subject parcels.

4.4.1.5 Micks Tractor PRP, 170 Hatchery Road (File #246)

Micks Tractor facility, located at 170 Hatchery Road (northeast of the site), was classified as a small quantity generator in the RCRA-Small Quantity Generator agency database. This site is situated northeast of the subject site; however, the facility is no longer in operation and the site is now used for storing recreational vehicles. Based upon the location of this former facility and the lack of violations, there appears to be a low risk that this site has impacted the soil and groundwater below subject parcels.

4.4.1.6 J&S Stake, 150 Taylor Way (File #120)

The J&S Stake site was formerly situated to the southwest, and this facility has been shut down. The HCDEH files indicate that this site had three ASTs, and had a few minor violations; however, based upon the location of the facility, and the direction of surface and groundwater flow (not toward the subject parcels), there appears to be a low risk that this site has impacted the soil and groundwater below subject parcels.

5.0 Site Reconnaissance

5.1 Methodology

SHN staff performed a site visit on April 22, 2011. The site visit consisted of visual inspection of the subject property and on-site structures, noting potential sources or evidence of hazardous materials releases, location and alignment of utilities, site drainage patterns, uses of adjacent parcels, potential for migration from off-site sources, and any other pertinent or unusual information that would aide in the development of this ESA. Photographs, site layout drawings, and notes were taken to document SHN's observations (Appendices A and C).

5.2 General Site Setting

During the site walk of the corporation yard parcel (APN 025-201-009), SHN noted several items, including the former USTs and fueling area, and the former mechanics pit. Surface staining was observed on the ground surface near the fuel dispensers, which are situated in the southeast corner of the corporation yard (APN 025-201-009). Three dispensers were noted and only two were in use. Reportedly, one fuel dispenser remained from the previous user. Historically, fueling on this parcel may have occurred since the 1950s.

The corporation yard's northern parcel (APN 025-161-019) is being used to store materials and equipment. The yard is partially gravel, asphalt, and grass. SHN did not observe any significant surface staining, pits, ponds, or protruding pipes on this parcel. This parcel fronts on Monda Way, and there is a paved driveway and locked entrance gate.

A portion of APN 025-201-002 had signs of potential hazardous materials releases, including green wastes, soil and gravel piles, and construction debris; however, heavy vegetation on portions of the subject parcel did not allow for a thorough inspection. Previous reports indicate that this parcel is the site of the former log pond, which has been filled.

An area in the northeast corner of APN 025-201-006 contained construction debris; however, because property lines are not evident in the field, we could not determine how much of this debris is on the northern adjacent parcel. Previous soil reports indicate that the former log pond was located in this area, and that the material used to fill the log pond was not a certified engineered fill (Appendix C).

The western subject parcels (APN 312-161-015 and -018) are vacant and vegetated with grasses and brush. To the north are the fire lane and the creek, and to the south is Taylor Way. A raised and vegetated soil berm is situated on the southern boundary of these parcels. A sewer lift station and storm drain easement is situated adjacent to these two parcels. SHN did not observe any significant surface staining, pits, ponds, or protruding pipes; however, much of the subject parcels have been filled since the area was the former log pond.

5.3 Interior Observations

The only subject parcel that has buildings is the corporation yard, which includes the shop, storage containers, and an office trailer. The office trailer is a double-wide portable structure and can be moved if needed. The shop is an older wood-framed structure with wood siding and a metal roof. The floor is concrete and one bay has a concrete patch over the former mechanics pit. The shop also has a restroom and shower; however, it was reported that the drainage was poor. The structure may have previously been painted with lead based paint, but it has been painted over several times. There were no significant quantities of Asbestos Containing Materials (ACMs) observed that are associated with this building; however, minor ACMs may be present in the mastic on the outside vents, on the inside wall boards, window putty, and possibly on the floor tiles. No friable ACMs were observed.

6.0 Interviews

During the course of this Phase I ESA, the current owner of the subject property (City of Blue Lake) completed a Phase I ESA Site Assessment and User Questionnaire (provided by SHN), and answered follow-up questions regarding current and historic operations on the subject parcels (Appendix E). These questions were developed to address potential areas of concern from a hazardous materials perspective that may be present on the subject property, and/or known RECs as defined in ASTM Standard E 1527.

6.1 Owner

Mr. John Berchtold, Blue Lake City Manager and representative, responded to SHN's Phase I ESA Site Assessment and User Questionnaires. Mr. Berchtold indicated that he was not aware of any environmental cleanup liens or AULs associated with the subject parcels; however, he is aware that the subject parcels were originally part of the McIntosh Lumber Company site.

Additionally, Mr. Berchtold is aware that much of the subject parcels are situated over the former log pond, which has been filled in. He has no knowledge of the presence of any hazardous substances or the likely presence of significant contamination on the subject property.

6.2 Site Manager

The site manager is the City, and as the City's representative, Mr. Berchtold was interviewed (Section 6.1).

6.3 Site Operator

The site operator is the City, and as the City's representative, Mr. Berchtold was interviewed (Section 6.1).

6.4 Local Government Official

6.4.1 HCDEH

HCDEH files indicate that USTs and ASTs have been present on the southern corporation yard parcel. The USTs have been removed from the site, and the impacted soil was removed. Analytical test indicate that this UST site is closed and no further action was required.

6.4.2 City of Blue Lake

SHN interviewed Richard Platz, the City of Blue Lake's former legal representative, and long time Blue Lake residence. Mr. Platz remembers that some of the business park property was given to the City by Best Rock and Redwood Empire Aggregate. The subject parcels have been owned by the City since the early 1980s. Mr. Platz is aware that much of the subject parcels are situated over the former log pond, which has been filled in. He has no knowledge of the presence of any hazardous substances or the likely presence of significant contamination on the subject property. File information and maps were obtained from the City and reviewed for this ESA.

SHN interviewed Mr. Steve Tyler, a special consultant to the City Public Works Department. In addition to discussing utilities, Mr. Tyler stated that the existing well was properly abandoned.

6.5 Others

6.5.1 Adjoining Neighbors

SHN staff did not interview any of the adjoining neighbors. However, the public works department workers are in the general area every day, and would observe any illegal dumping or burning. There has been no report to the City or to Humboldt County regarding illegal dumping or other significant hazardous materials releases on the subject parcels.

Mr. Platz was asked about the Blue Lake Burn Dump, because it was mentioned in the EDR database. He indicated that the burn dump was across the creek, north of the subject parcels, at the end of Ivy Street.

7.0 Findings and Opinions

The purpose of this section is to summarize the findings in this report and to identify RECs. A recognized environmental condition, as defined in ASTM Standard Practice E 1527-05, means:

> …the presence or likely presence of any hazardous substance or petroleum products on a property under conditions that indicate and existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property.

No potential or confirmed state or federal Superfund sites are located on or within 1 mile of the subject property. However, a few agency-listed sites that have experienced unauthorized hazardous materials releases are located within 1/8-mile northeast of the subject property. As previously reported, the likelihood is low that one or more adjacent agency-listed sites have impacted the subject parcels, except for the corporation yard parcels. To date, no agency-listed site is known to have impacted the subject parcels from a hazardous materials perspective, except for the corporation yard parcel, which had a former UST and fueling system.

SHN's research conducted for the subject property, which included reviews of historic aerial photographs, topographic maps, agency records, and questionnaires completed by the current property owner, revealed a few RECs. Research and visual observations have indicated the following:

REC 1: The City corporation yard's southern parcel (APN 025-201-009) included the former mill truck shop, which is now the public works maintenance shop. Inside this shop is a former mechanics pit that has recently been filled with concrete. Generally, these pits had a drain; however, SHN did not verify if one existed, and if so, where did it discharged. Historically, truck shops generally had waste oil tanks (above or below ground); however, SHN did not verify if one existed. This shop also has a restroom; however, SHN was unable to verify if the sewer historically emptied into a septic system, prior to the City constructing the sewer system. Additionally, fueling historically occurred, and still occurs in the southeast portion of the corporation yard. Based upon this information gathered during this ESA, this parcel will require additional soil and groundwater investigation to determine the extent of hydrocarbon contamination, if any.

REC 2: The City corporation yard's northern parcel (APN 025-201-019) is used for storage of equipment and materials. Historically, a truck shop was situated on the southern parcel and SHN was not able verify if the truck shop had any USTs, pit drains, or septic systems on the northern parcel that came from the truck shop operations. Based upon the information gathered during this ESA, this parcel will require additional investigation to determine if the soil or groundwater beneath the parcel has been impacted by current or historical operations.

REC 3: APN 025-201-002 is situated northwest of the corporation yard, and is a large vacant and heavily vegetated parcel. The parcel is the location where the City dumps its green waste, soil and gravel, and construction debris. The debris piles had evidence of painted wood, creosote treated wood, asphalt and concrete pieces, and pieces of scrap metal. SHN was not able to estimate the quantity of this waste, because it was covered with heavy vegetation.

A soils report for the adjoining southern parcel (APN 025-161-006) indicated that the former log pond was situated on both these subject parcels. The log pond was filled with rock, soil, asphalt, woody debris, and ash from the former teepee burner. Based upon the information gathered during this ESA, this parcel will require a soil and groundwater investigation to determine if the fill material has impacted the soil or groundwater below the subject parcel. The previous soil report for the southern adjacent parcel indicated that the fill may settle, depending upon the structure that is to be built over the filled portion of the parcel, and that an engineered foundation may be required.

REC 4: APN 025-201-006 is situated west of the corporation yard and Monda Way. The subject parcel is vacant and vegetated with grass. A small debris pile was observed on the northeast corner of the parcel. A soils report for this parcel indicated that the former log pond was situated below the subject parcel. The log pond was filled with rock, soil, asphalt, woody debris, and ash from the former teepee burner. Based upon the information gathered during this ESA, this parcel may require an additional soils and groundwater investigation to determine if the fill material has impacted the soil or groundwater below. A previous soil report for one of the subject parcels indicated that the fill may settle, depending upon the structure that is to be built over the filled portion of the parcel, and that an engineered foundation may be required.

REC 5: APNs 312-161-015 and -018 are situated south of Powers Creek and north of Taylor Way. SHN did observe some fill material on the surface of parcel (APN 312-161-015), but could not tell where the boundary line is between the parcels due to heavy vegetation. SHN did notice a large concrete structure on the northern portion of the parcel, which was the former log dump. South of the dump was the former log pond, which was filled with rock, soil, asphalt, woody debris, and ash from the former teepee burners. This parcel is vacant with brush and grasses covering much of the surface area. Based upon the information gathered during this ESA, this parcel may require an additional soils and groundwater investigation to determine if the fill material has impacted the soil or groundwater below the subject parcel. A previous soil report for one of the subject parcels indicated that the fill may settle, depending upon the structure that is to be built over the filled portion of the parcel, and that an engineered foundation may be required.

8.0 Conclusion

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Standard Practice E 1527-05 for the Blue Lake Business Park, in Blue Lake, California, (APN 025-201-009, 025-201-019, 025-201-002, 025-201-006, 312-161-015, and 312-161-018). Any exceptions to, or deletions from, this practice are described in Section 1.3 of this report. This assessment has revealed evidence of RECs in connection with the subject parcels.

9.0 Deviations

The preparation of the Phase I ESA did not deviate significantly from the guidelines presented in ASTM E 1527-05. SHN was able to delineate a continuous site history dating back to pre-site development without conducting an in depth title search. The majority of the historical information regarding site usage came from historic photographs and maps, and interviews with the City of Blue Lake.

10.0 References Cited

10.1 Published References

American Society for Testing and Materials--International. (2005). "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," *ASTM Standards on Environmental Site Assessments for Commercial Real Estate, Third Edition: E 1527-05*. Philadelphia: ASTM.

Dengler, L., R. McPherson, and G. Carver. (1992). "Historic Seismicity and Potential Source Areas of Large Earthquakes In North Coast California," *1992 Friends of the Pleistocene Guidebook, Pacific Cell, 1992*. p. 112-118. NR: Friends of the Pleistocene.

Federal Emergency Management Agency. (NR). Letter concerning the development of a new Flood Insurance Rate Map (FIRM) for City of Blue Lake Business Park levee. NR:FEMA.

Kilbourne, R. (1985). "Geology and Geomorphic Features Related to Landsliding, Blue Lake 7.5' Quadrangle, Humboldt County, California." (OFR 85-6 SF). Map scale 1:24,000. NR: CDMG.

Northcoast Geotechnical Services. (1981). *Preliminary Soils Investigation Proposed Business Park City of Blue Lake*. Eureka:NGS.

SHN Consulting Engineers & Geologists, Inc. (2008). "Memorandum #2: Proposed 4,000 Square Foot Building, Monda Way, Blue Lake Business Park." Eureka:SHN.

United States Environmental Protection Agency. (November 1, 2006). *All Appropriate Inquiries Final Rule.* Washington D.C.: EPA.

10.2 Records of Written Communications

Berchtold, John. (May 4, 2011). Current Blue Lake City Manager and Owner's Representative. Provided Site Assessment and User Questionnaires, and follow up interview regarding site ownership and uses.

Platz, Rick. (May 4, 2011). Former City of Blue Lake Legal Counsel. Provided information during the interview regarding site ownership and uses.

Tyler, Steve. (June 17, 2011). Consultant to City of Blue Lake Public Works Department. Provided information regarding utilities and the former well abandonment.

10.3 Aerial Photographs

Date	Source/Identification Numbers[1]	Scale
2000	City of Blue Lake	--[1]
1996	Humboldt County Natural Resources/96138 1-12-5	1″=12,000′
1993	EDR/USGS	1″=666′
1988	EDR/USGS	1″=666′
1981	Humboldt County Natural Resources/CDF-ALL-EU 14-20 (7-8-81)	1″=24,000′
1974	Humboldt County Natural Resources/HC-74 22A-5	--
1974	City of Blue Lake/9-9-1974	--
1969	EDR/CH2M Hill	1″=666′
1966	Humboldt County Natural Resources/HCN-2 19A-32	--
1966	Shuster/6-14-1966	--
1958	Humboldt County Natural Resources/HU 16-30	--
1958	City of Blue Lake/8-15-1958	--
1954	EDR/Clyde Sunderland	1″=555′
1950	City of Blue Lake/12-27-1950	--
1950	City of Blue Lake	--
1948	Humboldt County Natural Resources/CDF 2-15-32	--
1947	Shuster	--
1941	EDR/Aero	1″=555′
2007	Google Maps	--

1. --: Scale of photograph is not specified.

10.4 Topographic Maps

Date	Title, Location, Series	Scale
1948	Target Quad, Blue Lake, 15	1″= 50,000′
1951	Target Quad, Blue Lake, 15	1″=62,500′
1979	Target Quad, Korbel, 7.5	1″= 24,000′

11.0 Signatures of Environmental Professionals

_____ _____

Patrick N. Barsanti, R.E.A. **Date**
Environmental Engineer

_____ _____

Michael K. Foget, P.E., REA **Date**
Environmental Services Director

12.0 Statement of Qualifications of Environmental Professionals

SHN's project team included Patrick Barsanti and Michael Foget. Patrick Barsanti is a Registered Environmental Assessor in the State of California, and has a Bachelors of Science Degree from Humboldt State University (1991). Additionally, Mr. Barsanti has worked for SHN for over 30 years, and has been conducting Phase I ESAs for more than 20 years. Michael Foget, who is a licensed Professional Engineer in the State of California, provided the quality control and quality assurance for this project.

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Appendix A

Color Photographs

Photograph No. 1: Photo taken looking northeast from Taylor Way, at City parcels (APN 312-161-015 and -018).

Photograph No. 2: Photo taken from the City-owned parcel (APN 312-161-018), looking southwest at the City-owned parcel (APN 312-161-015). Taylor Way and Blue Lake Power are on the right.

Photograph No. 3: Photo taken from the fire access road, looking northwest at the fence line separating the adjacent site from the subject parcel.

Photograph No. 4: Photo taken from Taylor Way looking at the west end of the City parcel (APN 312-161-018), and the western adjacent area. Taylor Way ends at the gate, into the former Granite Construction facility.

Photograph No. 5: Photo taken from the fire road looking south at the City parcel (APN 312-161-015), further south is Taylor Way and City property leased to Blue Lake Power.

Photograph No. 6: Photo taken looking south at the City's Parcels (APN 312-161-015 and -018), and the pump station between the two, near Taylor Way.

Photograph No. 7: Photo taken from Taylor Way looking north at the City pump station, which is between the two City parcels (APN 312-161-015 and -018). There is a 4-inch force main along Taylor Way, as well as other underground utilities.

Photograph No. 8: Photo taken from the City-owned parcel (APN 312-161-015), looking southwest. Note the soil berm along the southern border of the parcel.

Photograph No. 9: Photo taken looking north at the storm drain drop inlet on Taylor Way. There is a storm drain that traverses between the two City parcels and discharges north into the creek.

Photograph No. 10: Photo taken looking north at the undeveloped parcel (APN 025-201-015) within the industrial park.

Photograph No. 11: Photo taken looking northwest at Tomasos Specialty Foods (APN 025-201-017).

Photograph No. 12: Photo taken from Monda Way, looking southwest at the developed parcels situated south of subject parcel (APN 025-201-002).

Photograph No. 13: Photo taken of a green pipe over a cleanout plug (APN 025-201-006).

Photograph No. 14: Photo taken looking at the utility easement (APN 025-201-001) and at the adjacent parcel (APN 025-201-018), north of the City corporation yard. The parcel is a contractor's yard, with a building and partially overgrown yard area. Beyond and north of the building is the sewer pump station (APN 025-201-001).

Photograph No. 15: Photo taken from Monda Way looking at the western side of the City corporation yard (APN 025-201-019 and 025-201-009), which has the double wide office trailer. The corporation yard is surrounded by chain link fencing, and on the western side, there is curb and gutter (with a grass buffer strip between).

Photograph No. 16: Photo taken from Monda Way looking at the City corporation yard, inside is the large wood shop building. There is an access gate from Monda Way, and the locked gate is shown in the foreground.

Photograph No. 17: Photo taken looking at the northern side of the City corporation yard (APN 025-201-019), and the outside material storage area.

Photograph No. 18: Photo taken from Taylor Way looking west. Monda Way is on the right, and Blue Lake Power is on the left.

Photograph No. 19: Photo taken from the corner of Monda Way and Taylor Way, looking east along Taylor Way. The City corporation yard is on the left.

Photograph No. 20: Photo taken looking at the City corporation yard's eastern adjacent site, the Mad River Wood Works and the Mad River Brewing Company (APN 025-201-010, -011, -020, and -021).

Photograph No. 21: Photo taken from Taylor Way looking south at the City leased site (Blue Lake Power), formerly the Ultrapower #3 facility.

Photograph No. 22: Photo taken looking southeast across Taylor Way from the City corporation yard. This is a City-owned site, formerly J&S Stakes.

Photograph No. 23: Photo taken looking north at the City corporation yard shop, behind the chain link fence.

Photograph No. 24: Photo taken inside the first bay of the shop. There was once a mechanics pit, which is now filled with concrete.

Photograph No. 25: Photo taken inside the shop, where there is a restroom with a toilet, sink, and shower.

Photograph No. 26: Photo showing the northwestern side of the shop.

Photograph No. 27: Photo showing the northeastern side of the City corporation yard.

Photograph No. 28: Photo taken looking northeast at the City corporation yard and the eastern adjacent site Mad River Wood Works.

Photograph No. 29: Photo taken looking at the gasoline and diesel ASTs inside the concrete block secondary containment. There are three dispensers present, but only two are connected.

Photograph No. 30: Photo taken of the aboveground piping to the dispensers, within a second outer pipe, as it passes through the concrete to the dispenser.

Photograph No. 31: Photo taken inside the City corporation yard. There are ASTs at the site; this photo shows the secondary containment drain valve that is capped.

Photograph No. 32: Photo taken looking south down Monda Way. The City corporation yard is on the left and a City-developed site is on the right (APN 025-201-007).

Photograph No. 33: Photo taken from Monda Way looking northwest at a City-owned parcel (APN 025-201-002). Note that access road on the right, leading back into the City's green waste dumping area.

Photograph No. 34: Photo taken of an access road leading north into the City's dumping area (APN 025-201-002).

Photograph No. 35: Photo taken of fill material on City parcel APN 025-201-002.

Photograph No. 36: Photo taken of fill material on City parcel APN 025-201-002.

Photograph No. 37: Photo taken from the fire access road looking south at Monda Way. This photo shows the utility easement from Monda Way to the pump station.

Photograph No. 38: Photo taken looking north at the creek, and unmarked trail.

Photograph No. 39: Photo taken of the City-owned unimproved fire access road (APN 025-201-001), north of the subject parcels. The brewery is on the right and the creek is on the left.

Photograph No. 40: Photo showing the City pump station on the right, and the contractor's yard on the left (APN 025-201-018).

Photograph No. 41: Photo taken looking west along the fire access road. City parcel APN 025-201-002 is on the left and the creek is on the right.

Photograph No. 42: Photo taken looking south at the City's dumping area within APN 025-201-002. The access road is further south.

Photograph No. 43: Photo taken of some of the debris (wood, soil, asphalt, and green waste) that is located within the City's dumping area.

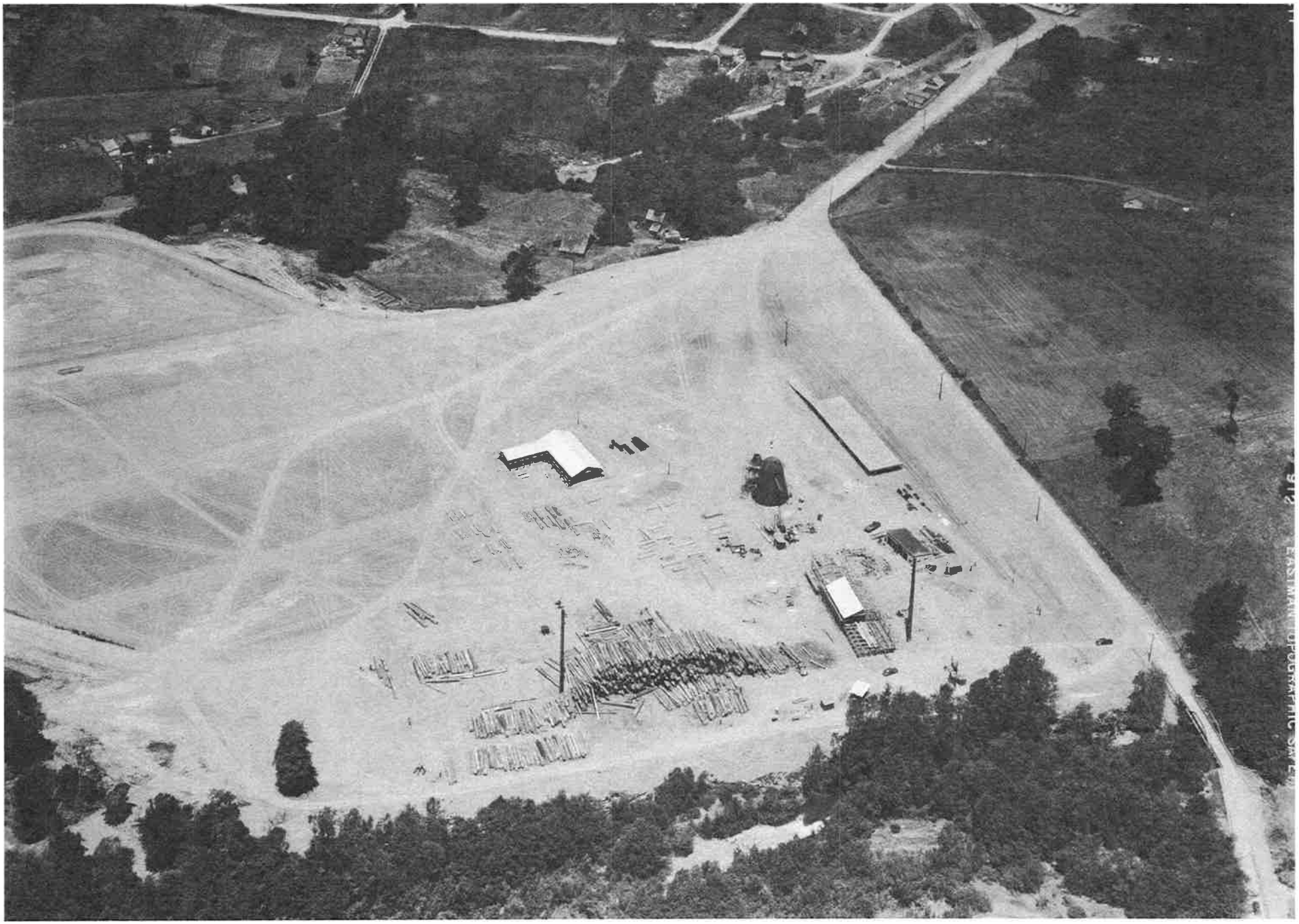
Photograph No. 44: Photo taken of fill material on City parcel APN 025-201-002.

Photograph No. 45: Photo taken from the fire road looking south at the former log dump concrete deck. To the south is the former log pond (APN 312-161-015), which has been filled in.

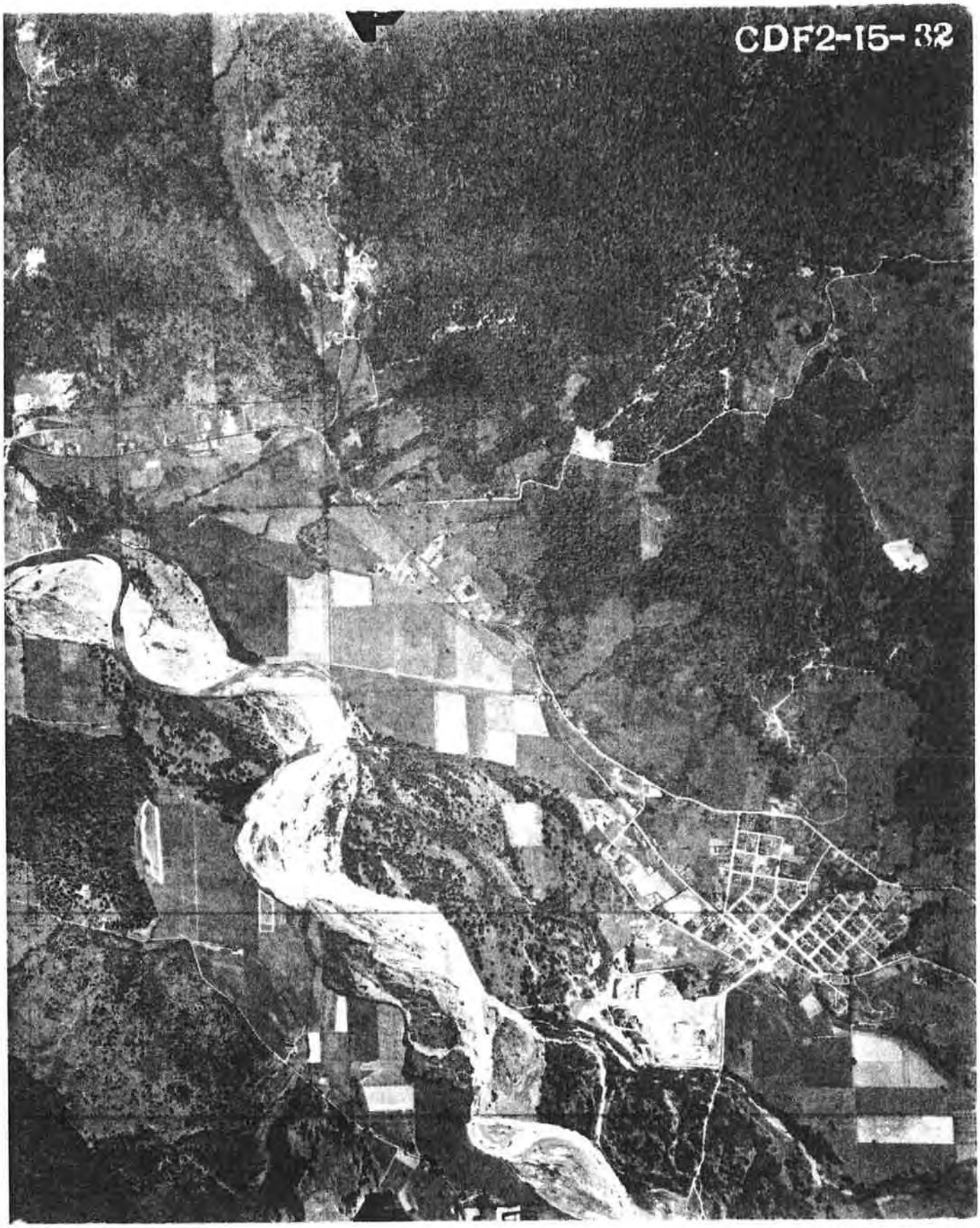
Appendix B

Aerial Photographs and Topographic Maps


INQUIRY #: 2023992.5
YEAR: 1941
= 555'
N

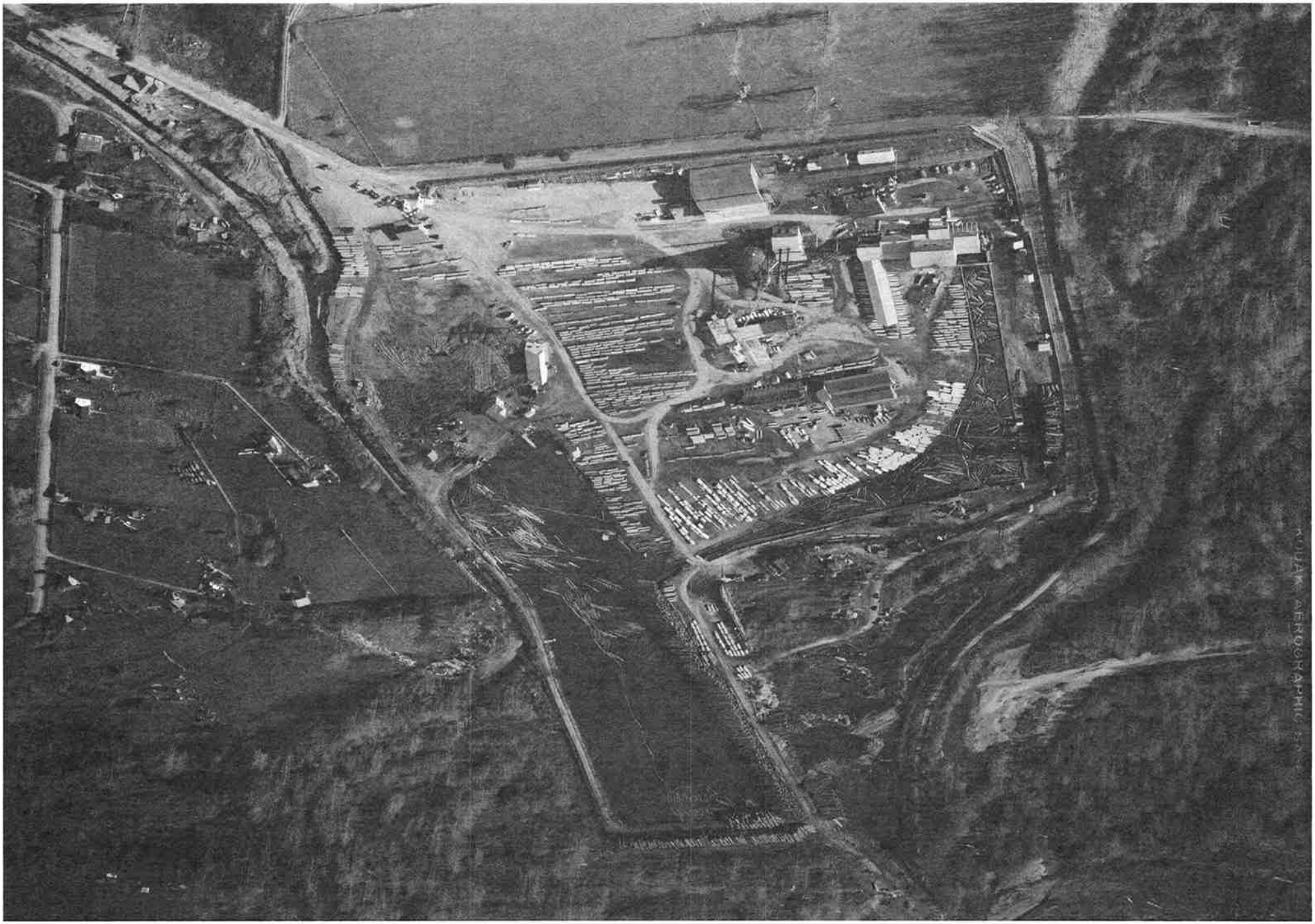


McIntosh Mill (1947)- When mill was being constructed Source: http://library.humboldt.edu/humco/holdings/shuster/Access_Jpg/2001010665.jpg



1948

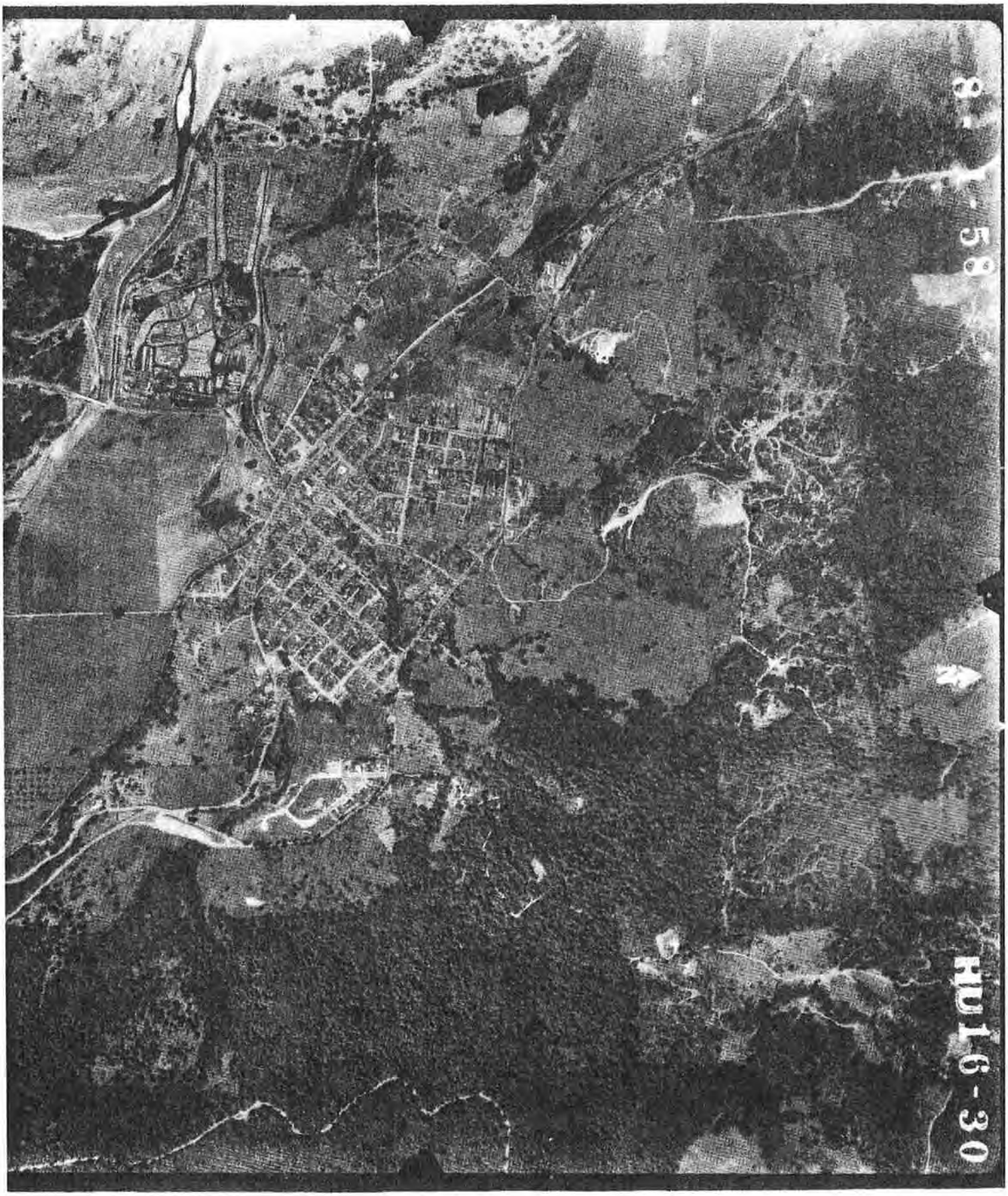
0561



OSb1-LZ-21


INQUIRY #: 2023992.5
YEAR: 1954
= 555'
N

8541-51-8



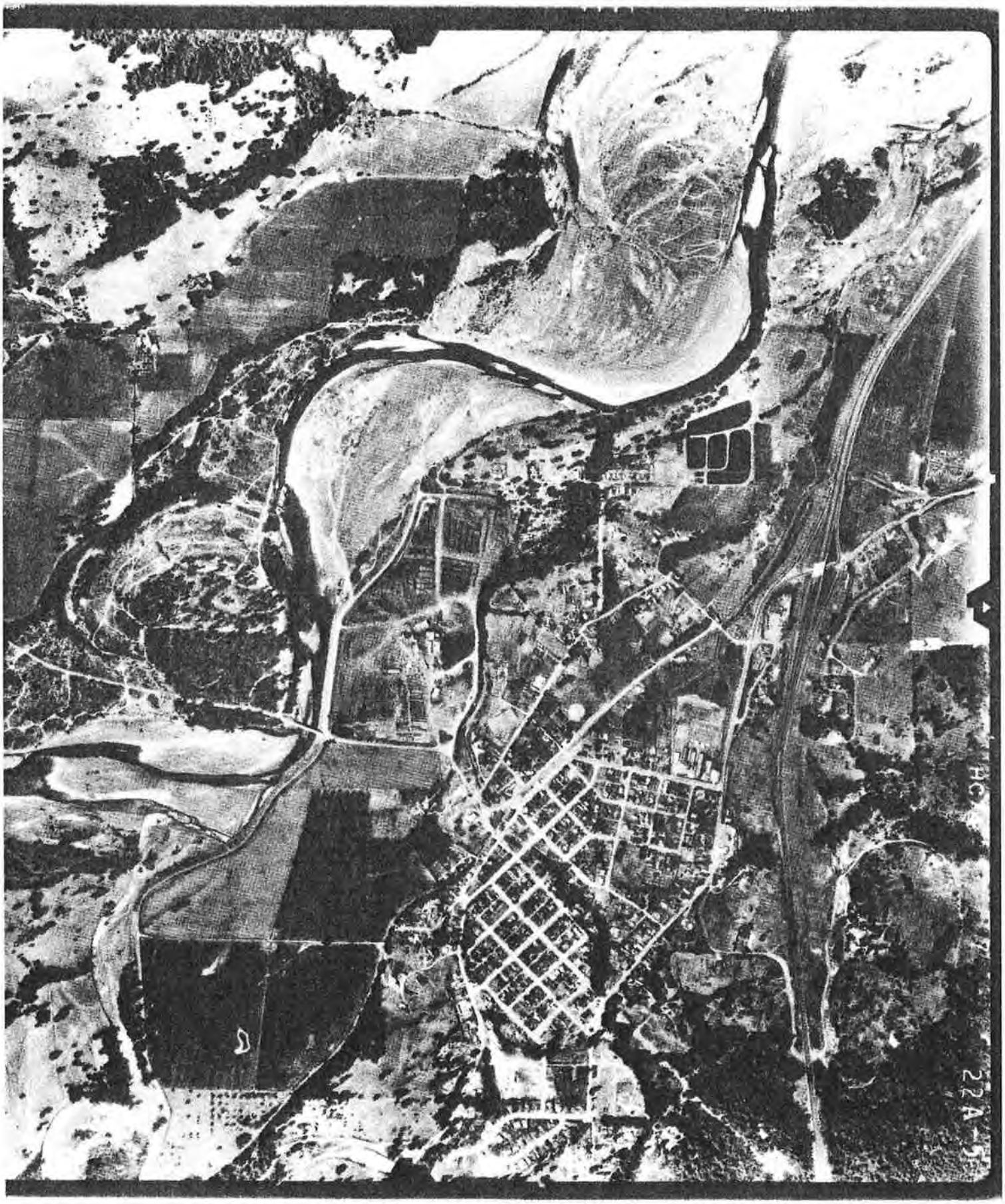
1958

SHUSTER 6-14-1966

1966


INQUIRY #: 2023992.5
YEAR: 1969
= 666'
N

HL61-6-6

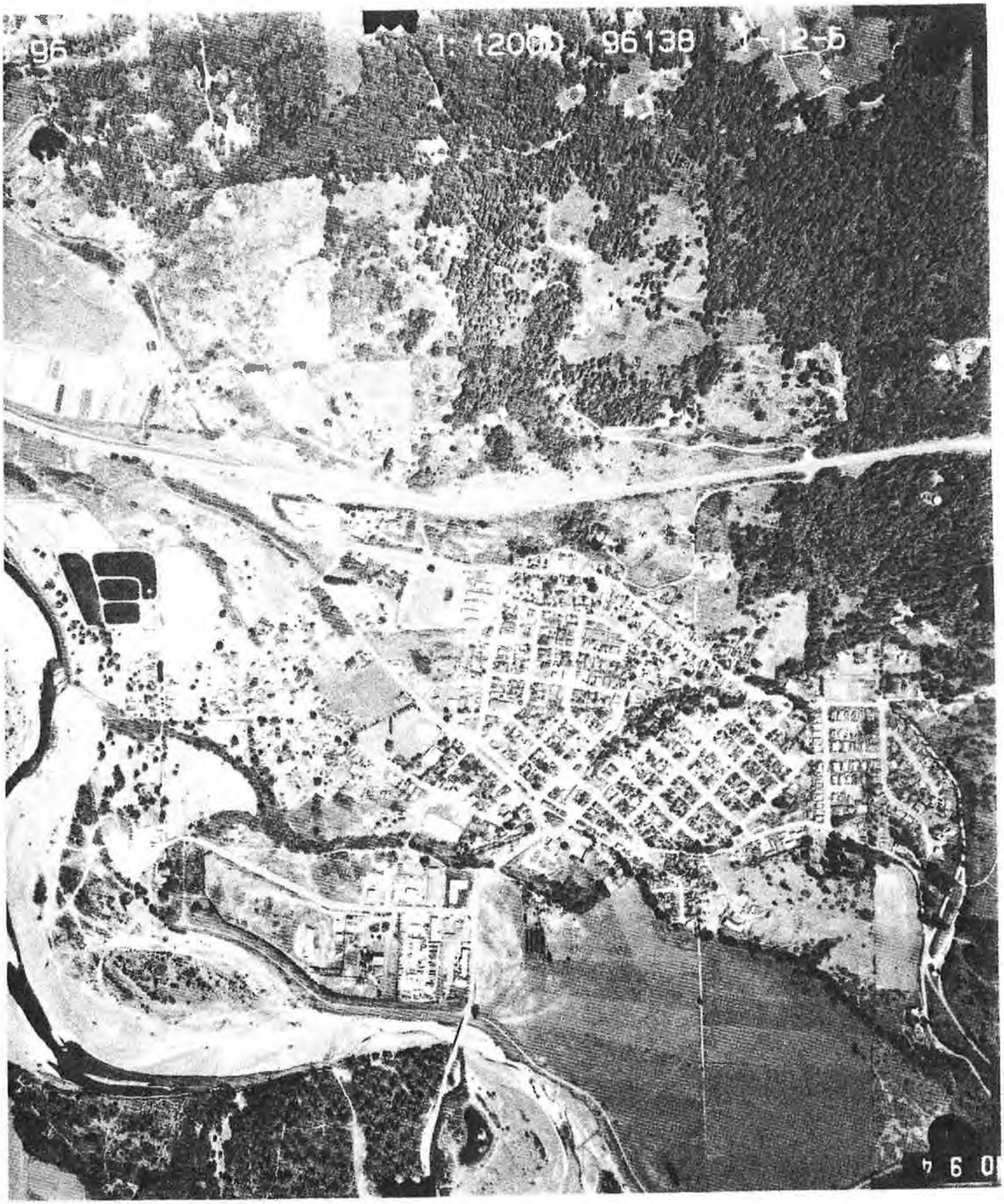


1974

1981


INQUIRY #: 2023992.5
YEAR: 1988
= 666'
N


INQUIRY #: 2023992.5
YEAR: 1993
= 666'
N



1996


Taylor Way
Monda Way
Hatchery Rd
© 2011 Google
Image © 2011 GeoEye
©2009 Google
Imagery Date: Oct 13, 2010
lat 40.878320° lon -123.995467° elev 83 ft
Eye alt 2013 ft

EDR Historical Topographic Map Report

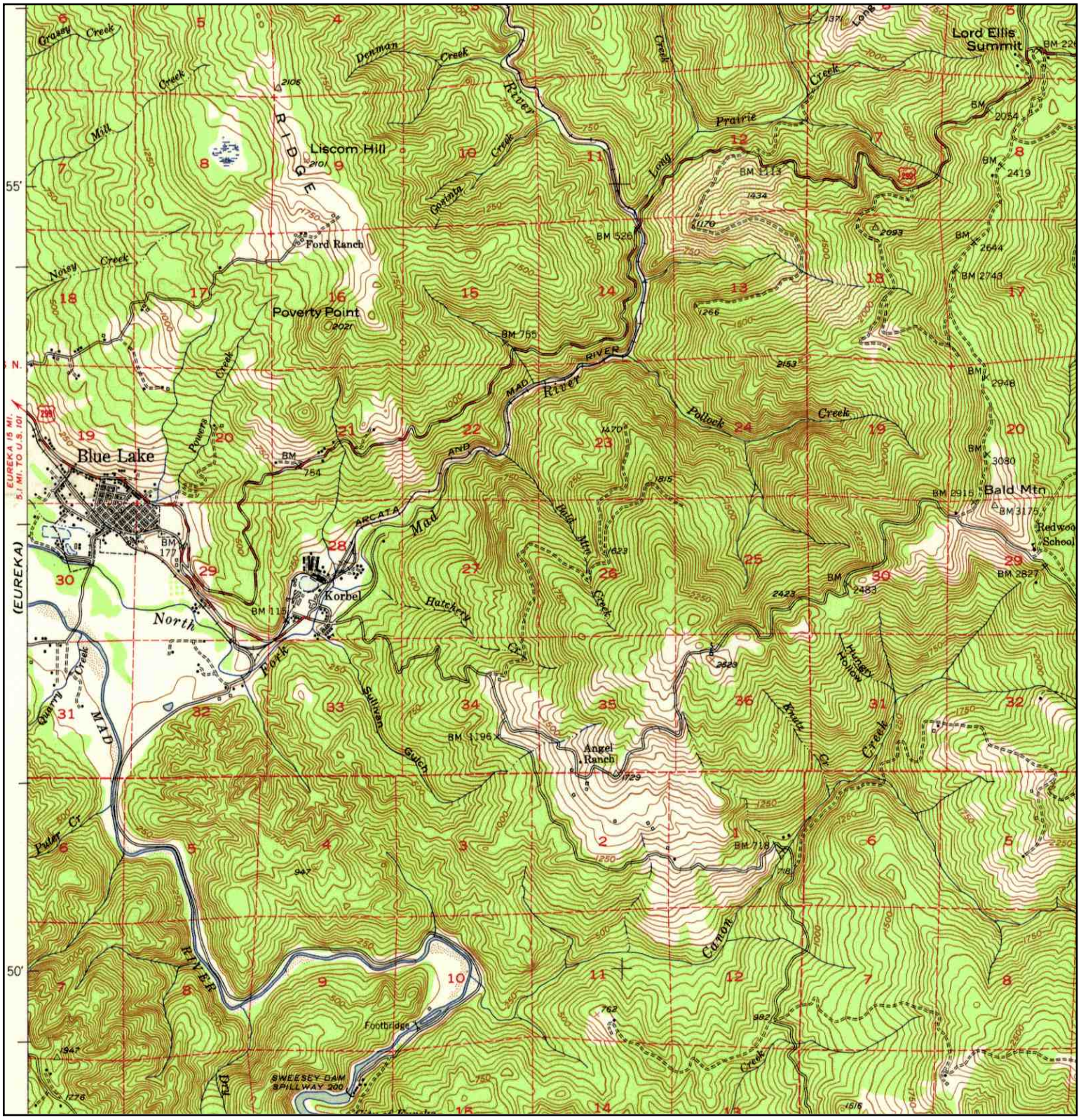
Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical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

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

Historical Topographic Map

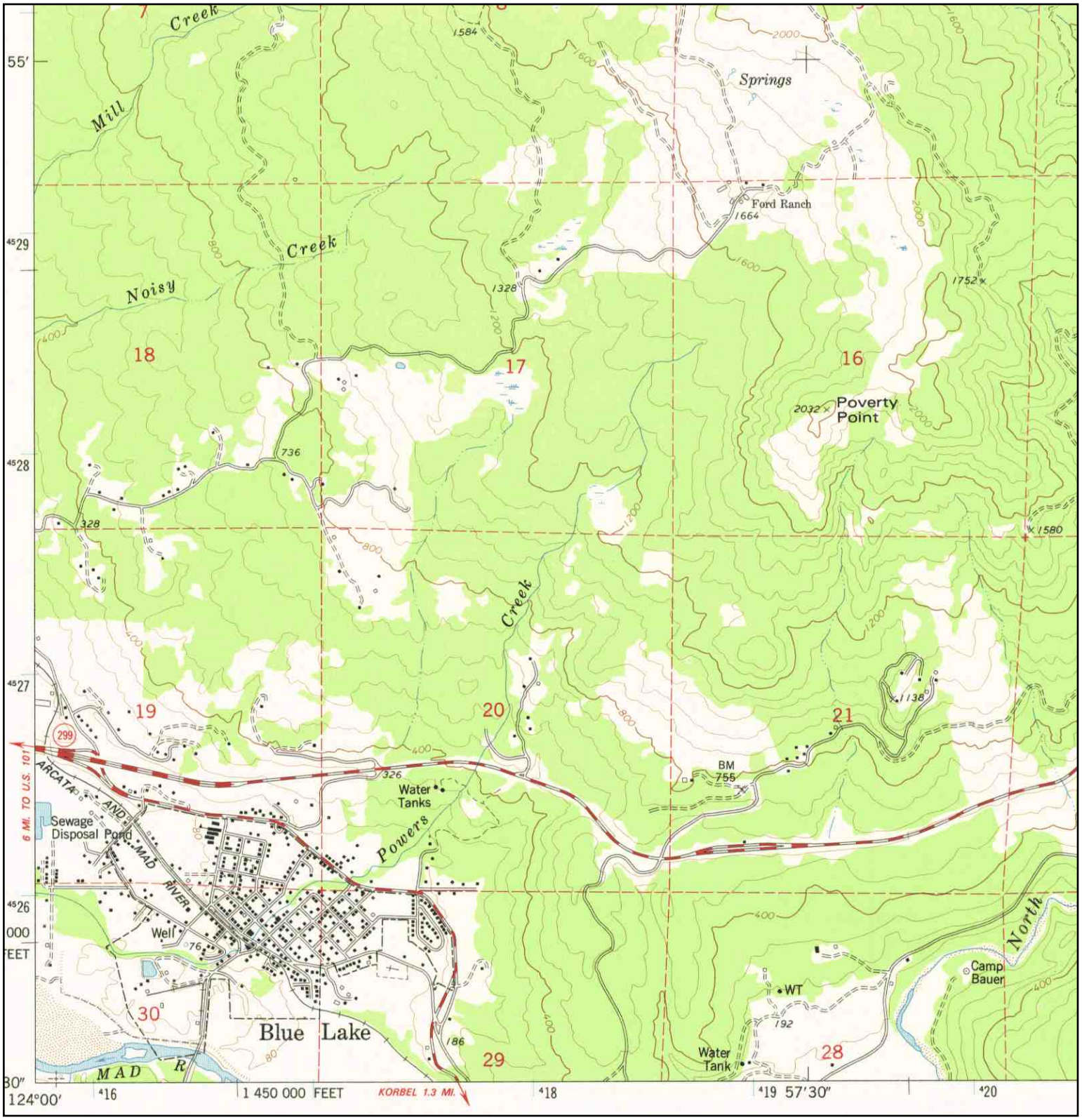
N	TARGET QUAD NAME: BLUE LAKE MAP YEAR: 1948 SERIES: 15 SCALE: 1:50000		CLIENT: SHN Consulting Engineers CONTACT: Diana Monroe INQUIRY#: 2023992.4 RESEARCH DATE: 09/10/2007

Historical Topographic Map



N	TARGET QUAD NAME: BLUE LAKE MAP YEAR: 1951 SERIES: 15 SCALE: 1:62500		CLIENT: SHN Consulting Engineers CONTACT: Diana Monroe INQUIRY#: 2023992.4 RESEARCH DATE: 09/10/2007

Historical Topographic Map



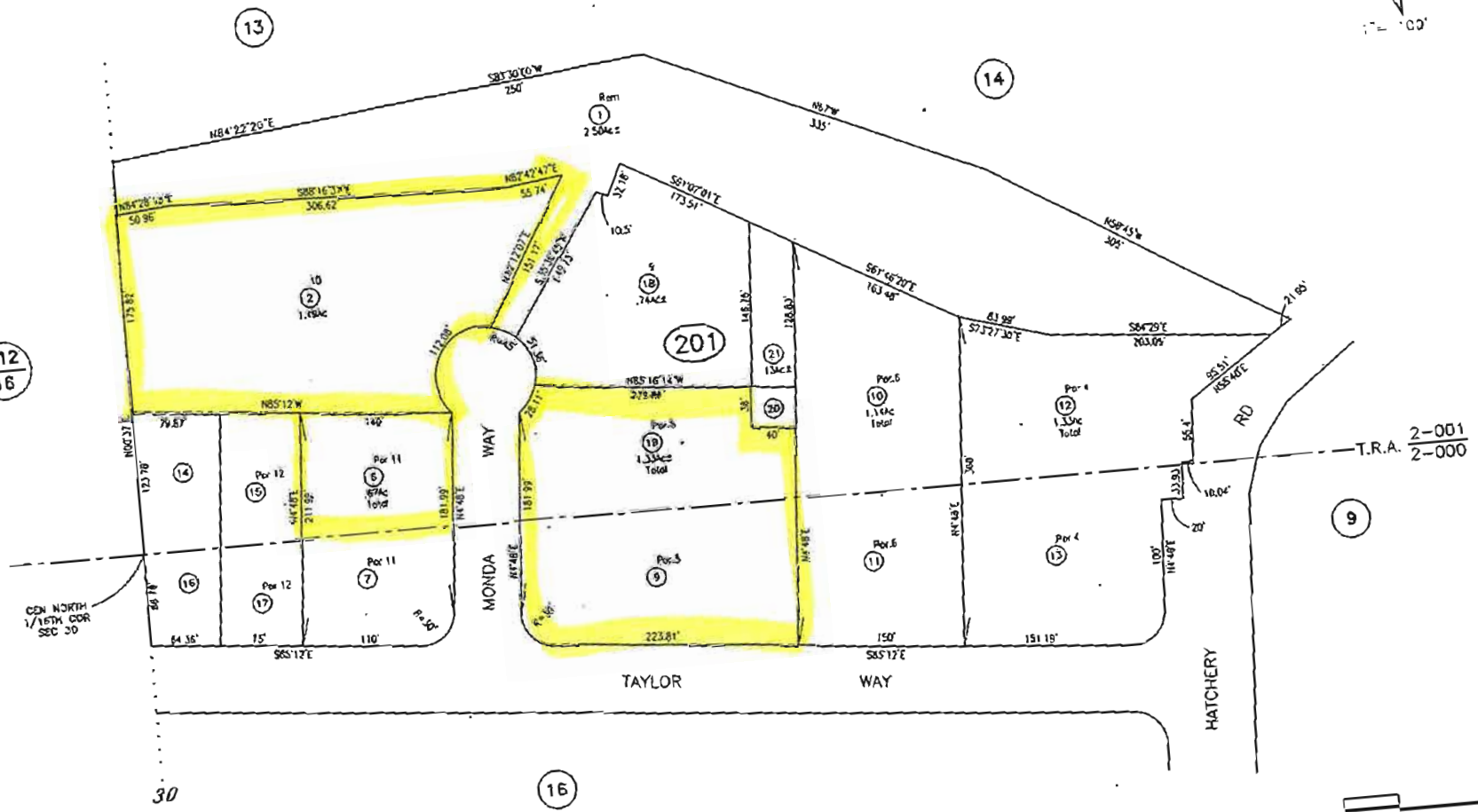
N	TARGET QUAD NAME: BLUE LAKE MAP YEAR: 1979 SERIES: 7.5 SCALE: 1:24000		CLIENT: SHN Consulting Engineers CONTACT: Diana Monroe INQUIRY#: 2023992.4 RESEARCH DATE: 09/10/2007

Appendix C

Assessor's Parcel Map, Other Maps of Interest, and Other Appurtenant Information

25--20

PTN N1/2 OF NE1/4 SEC 30 T6N, R2E H.B. & M.
City of Blue Lake



NOTE – Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Circles

Assessor's Map Bk. 25, Pg 20
County of Humboldt, CA.

25' 50 100'

4 Mar 9, 2011

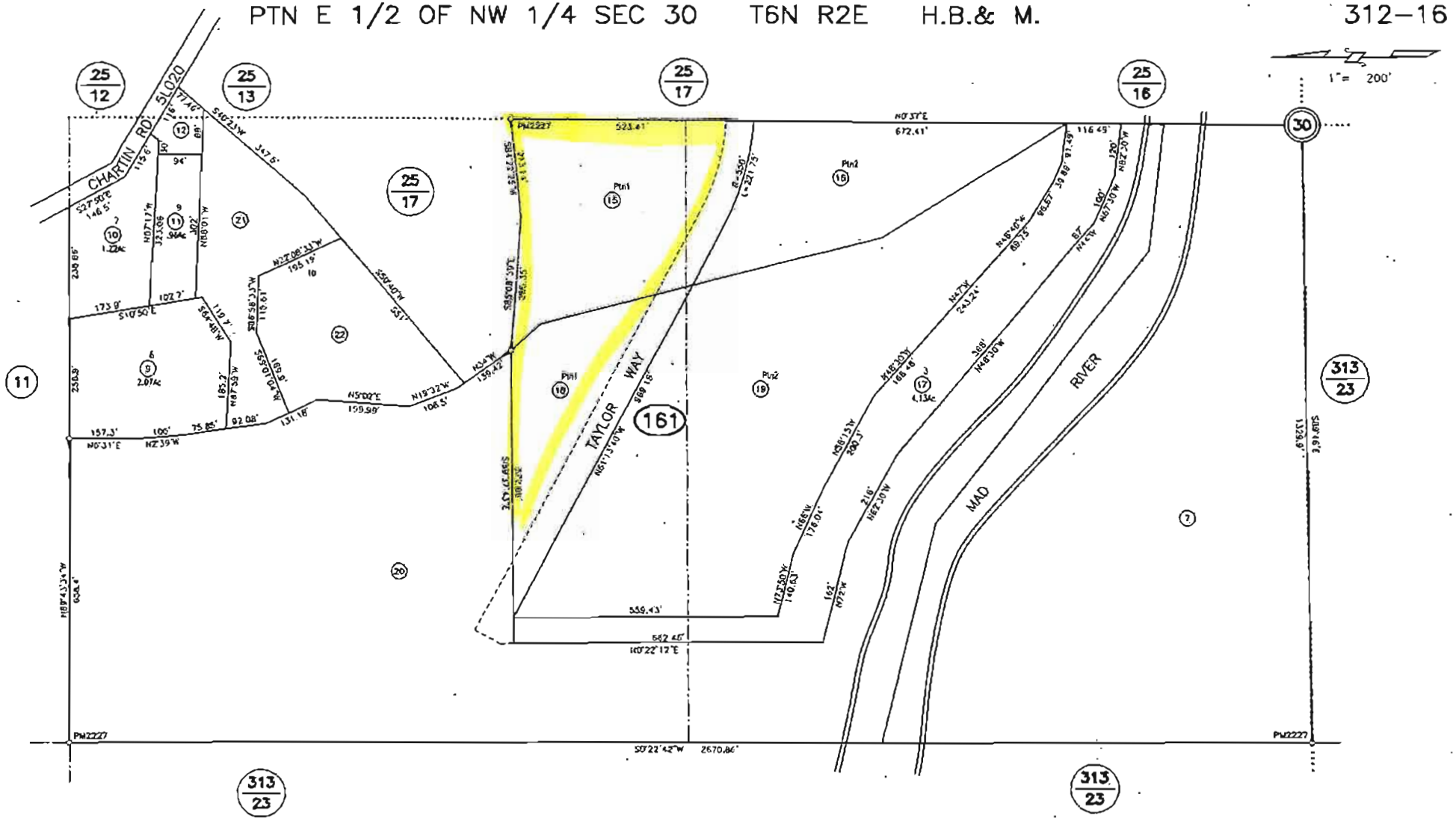
ASSESSOR'S PARCEL MAP

1 THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY
2 NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN
3 ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES

RS, Bk 55 of surveys, Pg 15
RS, Bk 57 of surveys, Pg 21
RS, Bk 59 of surveys, Pg 131
RS, Bk 63 of surveys, Pg 26

PTN E 1/2 OF NW 1/4 SEC 30 T6N R2E H.B.& M.

312–16



ASSESSOR'S PARCEL MAP

1. THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY
2. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN
3. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES

PM2227 of PM Bk 19, Pgs 120–121
RS, Bk 21 of surveys, Pg 80
RS, Bk 53 of surveys, Pg 40
RS, Bk 59 of surveys, Pg 114
RS, Bk 63 of surveys, Pg 4

NOTE – Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Circles

Assessor's Map Bk. 312, Pg.16
County of Humboldt, CA.

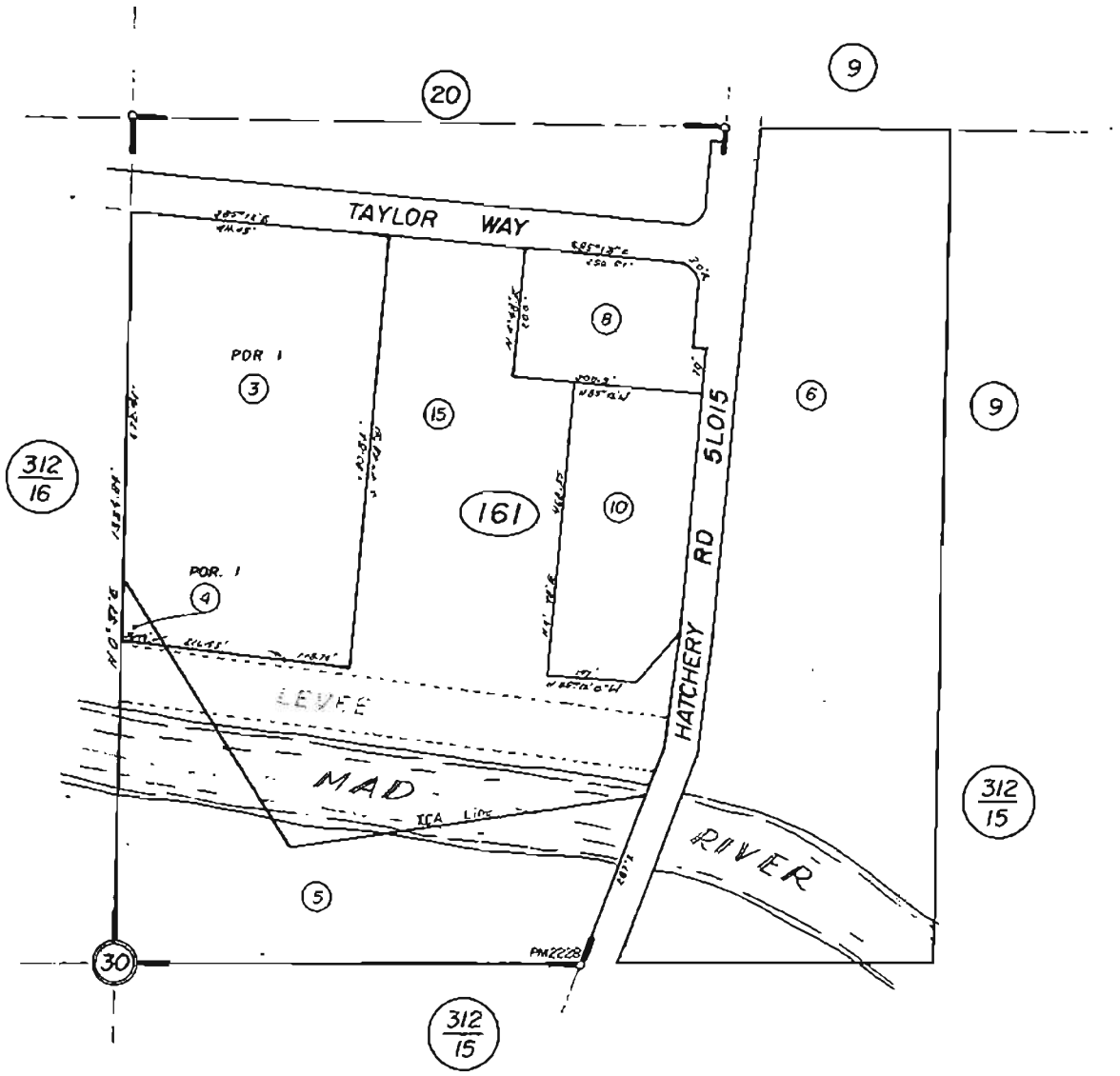
50' 100' 200'

Nov 2, 2010

POR. SEC. 30 T 6N, R 2E HB & M

City of Blue Lake

25-16



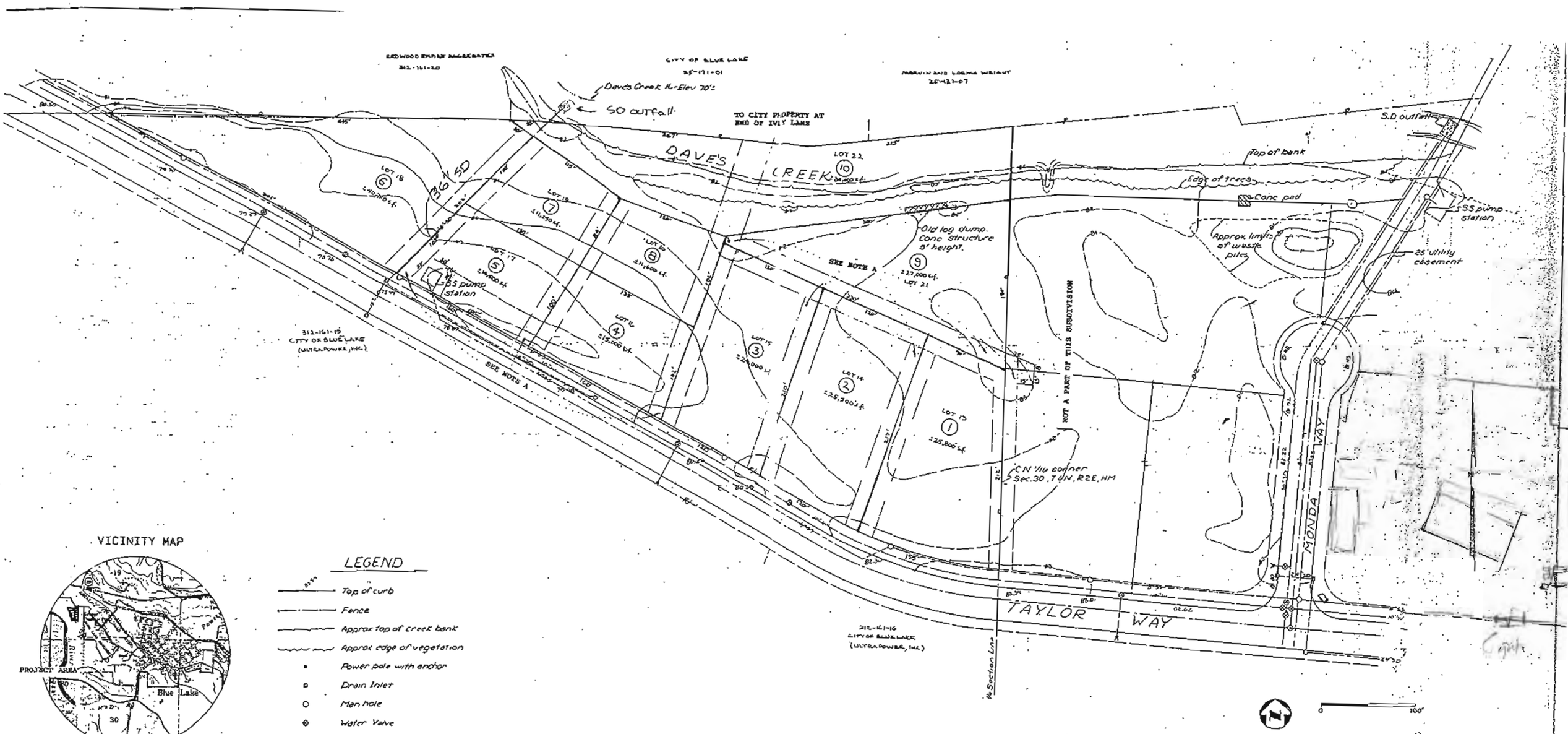
PM 2228 of PM Bk. 19, Pg. 122-3
RS Bk 53, Pg 74

Assessor's Maps Bk. 25 – Pg. 16
County of Humboldt, Calif.

Blue Lake Business Park Phase II

APNs 312-161-15 & 18

Streamline Planning Consultants, 1062 G St. Suite I, Arcata, CA 95521, Tel: (707) 822-8765, Fax: (707) 822-8768	DRAWN BY Justin Sousa DATE 8/24/10	TENTATIVE SUBDIVISION MAP for CITY of BLUE LAKE in NW 1/4 SECTION 30, T.6N., R.2E., H.M.	SCALE 1"=100'
	CHECKED BY Bob Brown DATE		JOB NO. BLBP
	APPROVED BY DATE		SHEET



VICINITY MAP

1" = 2000'

LEGEND

- Top of curb
- Fence
- Approx top of creek bank
- Approx edge of vegetation
- Power pole with anchor
- Drain Inlet
- Man hole
- Water Valve
- R. creek
- Fire hydrant
- Property line
- Right of Way
- Water
- Sanitary Sewer
- Storm Drain

Notes

(A)- Proposed 30' wide non-exclusive service road easement for purpose of ingress, egress, drainage and utilities

(B)- This map based on previously prepared maps including the Record of Survey, Book 55 of Surveys, page 15, and the Oscar Larson and Associates "Topographic Map of a Portion of the Blue Lake Industrial Park (1988)"

Tentative Map for the City of Blue Lake

Western Portion of the City of Blue Lake Industrial Park
APN 312-161-15, 18

PROPERTY OWNER/SUBDIVIDER:

CITY OF BLUE LAKE
P.O. BOX 458
BLUE LAKE, CA 95525
(707) 668-5655

General Plan/Zoning: ML (Light-Industrial)
Present Use: Vacant

The purpose of this subdivision is to create individual lots for lease and/or sale for future industrial development.

JANUARY 2, 1996 Robert Brown


Taylor Way
Monda Way
Taylor Way
Potters Lane
Blue Lake Avenue
Gay Street
Blue Lake Avenue
Hatchery Road
107
106
105
104
103
102
101
100
16A
16B
16
20
21
CITY SEWERMA
TAYLOR WAY

CITY WATER MAP
TAYLOR WAY

9. No use shall be permitted which does not comply with State and Federal laws. (Amended by Ord. 490)

Section 407.1. LIGHT INDUSTRY ZONE OR ML ZONE. The purpose of the Light Industry Zone or ML Zone is to provide an environment where manufacturing businesses of a light industrial or commercial character; which may be incompatible with other uses, can operate and cooperate with each other with minimum restrictions while having minimum adverse effects on adjacent land uses. This zone encourages craft-type manufacturing businesses to include a retail component of goods produced onsite, enhancing a community "Made in Blue Lake" sense of pride.

A. Principal Permitted Uses.

1. Light Manufacturing and Processing. This use type includes craft and art manufacturing businesses which manufacture items from wood, ceramics, fabric, metals or glass; food and beverage processing and bottling; manufacture of boats and marine equipment; and light to moderate manufacturing of products such as household goods, clothing, recreational goods, electrical products, furniture, architectural products, and automotive goods. This use also includes retail sales of food, drinks and advertising merchandise primarily of goods manufactured within the business park.

2. Distribution and Associated Warehousing. This use type includes nurseries and greenhouses, distribution warehouses for consumer products, and indoor and outdoor storage facilities.

3. Commercial Services (Limited). This use type includes equipment rental, repair of small engines or appliances, furniture repair shops, contractor shops and yards (including carpentry, electrical, plumbing, painting, small printing, publishing, lithograph shops and other artistic endeavors), and retail shops that are accessory to an industrial use and conform to the general character of the district. It does not include major repair of vehicles, industrial parts or heavy equipment.

4. Professional Offices and Services. This use type includes administrative and research activities; radio and television broadcasting stations and offices; medical, dental and related services; and professional consulting, real estate and financial services. This use type includes research and development laboratories and other professional or personal services not listed which, in the opinion of the Planning Commission, are of the same general character and will not be obnoxious or detrimental to the district. It also includes personal service shops, such as banks, grooming services, visitor service facilities or businesses of a similar nature.

5. Recreation and Education. This use type includes trails and outdoor recreational uses, commercial recreational facilities and schools and training programs in the areas of arts, crafts and light manufacturing. It can include performance or art studios, theaters, or other small venues for public assembly when found to be consistent with the purpose and intent of this section.

6. Public Works Facilities. This use includes a City corporation yard and includes but is not limited to public works improvements, storage of materials, temporary holding of animals, and maintenance and repair of City equipment and vehicles.

B. Uses Permitted with a Use Permit.

1. Commercial Services (Enclosed). This use type includes major and minor repair of automobiles, trucks, watercraft and heavy equipment; machine and metal working shops; equipment rental; and printing, publishing and lithograph shops when enclosed in a building or buildings.

2. Other Uses. Listed uses that do not meet all the requirements stated in this section but due to specific project design and amenities conform to the purpose and intent of this section. This includes any other use which, in the opinion of the Planning Commission, is compatible with the zone or a service to those employed within the zone, and will not constitute a nuisance or be detrimental to the district or surrounding land uses.

C. Other Regulations.

Specific site development guidelines have been prepared based on the design intent for the Industrial Park and the Blue Lake zoning ordinance. The objective of the guidelines is to help integrate buildings and other improvements with the topography and landscape to create a unified environment which is harmonious with the adjacent visual panorama.

1. Building coverage shall not exceed 70% of lot area.

2. Building height limit: three stories but not exceeding 60 vertical feet.

3. Setbacks and easements:

   a. No building (front) shall be constructed within 25 feet horizontal of any public right-of-way. No building (side) shall be within 15 feet horizontal of any public right-of-way.

b. No building or parking or storage area shall be constructed within 50 feet horizontal of the centerline of the main branch of Dave's Creek. The zone thus created, 50 feet horizontal from the centerline of Dave's Creek outward, shall be preserved as an area of riparian vegetation. Trails and habitat enhancement projects are allowable within this zone.

c. No building or parking or storage area shall be constructed within 50 feet horizontal of the boundary of the Blue Lake Rancheria. The zone thus created, 50 feet horizontal from the boundary of the Blue Lake Rancheria, shall be preserved as an undeveloped space area of riparian vegetation.

4. Parking and loading areas:

Sufficient onsite parking, as per Section 611 of the general plan, shall be provided for employees, visitors and company vehicles. The minimum number of spaces shall be one for every 800 square feet of gross floor area or 1 parking spot per 1.35 shift employees whichever is more applicable

5. Utilities:

a. All site improvements shall be designed to accommodate underground utilities and shall be required to convert to such as they become available. Utilities shall include, but are not limited to, drainage systems, sanitary sewers, gas, water, power, cable and telephone.

b. Within each site, utility lines may be located above ground if they are incorporated and concealed within buildings, trellises, or special architectural features.

c. Temporary overhead power and telephone lines will be permitted during construction, but are to be removed upon completion of construction.

6. Landscaping: a landscaping plan will be required for each site showing the locations, names, and initial sizes of plant materials, irrigation plan and groundcover materials. Ongoing maintenance and replacement (when needed) is a requirement of all uses within the ML zone. The City Planner will review each landscaping plan for approval. Landscape requirements are defined in Section 624.

7. Guidelines for architectural and site plan review are required as prescribed in Section 625; according to the City's current master fee schedule. The Planning Commission may develop additional guidelines in written form that provides direction for meeting criteria listed in Section 625.

D. Performance Standards.

1. Toxic Substances. Any use which involves processes that will result in toxic substances or pollutants escaping (by air or water) from the site shall comply with all applicable Local, State and Federal regulations and shall require a use permit from the Planning Commission. Medical wastes are to be disposed of according to all applicable regulations. All processes shall comply with the applicable Local, State and Federal laws regarding airborne and waterborne emissions.

2. Signs. Any signs that will be used on-site, as well as signs on buildings, must be approved by the City Planner before they are posted. Free-standing signs shall be limited to 50 square feet in size and the top thereof shall not be higher than 10 feet above the ground. Signs shall be consistent with the general sign motif established for the Industrial Park, example of which is the Park entrance sign.

3. Lighting/Glare. The type and usage of all exterior lighting shall be the minimum lumens required, shall be kept low in height, shall be shielded so as not to shine on adjacent properties, shall not shine on nearby properties or natural areas in an adverse manner and must be approved by the City Planner prior to installation. Building materials or other site improvements that cause glare to nearby properties are prohibited.

4. Noise. Any use that produces a sound level of 55 dBA-Ldn or more at the property line of any residential dwelling is required to mitigate the sound to a level of less than 55 dBA-Ldn at the property line of that residential dwelling. No sound level greater than 70 dBA is allowed beyond the property boundary of a business, except that no noise over 55 dbA is allowed between the hours of 10pm and 7am.

5. Dust. Any use that results in dust escaping from the site is required to mitigate to reduce the dust. Refer to North Coast Unified Air Quality Management District regulations for current limitations and requirements.

6. Sewage. Sewage disposal shall require on-site improvements (interceptor tanks, grease traps, etc.) for those uses that are determined by the Public Works Director to generate wastes that may cause a difficulty to the treatment system.

7. Odors. No use shall be permitted which creates annoying odor in such quantities as to be readily detectable beyond the boundaries of the Business Park.

8. Storage, Service and Loading Areas.

    a. Storage, service and loading areas shall be recessed or screened with fences, walls, berms, or plantings to reduce their visibility from adjacent streets or

properties.

b. Materials, equipment, supplies, trash containers, inoperable vehicles, etc. shall be stored within an enclosed building or behind visual barriers such as fences, walls, berms, or plantings.

9. No use shall be permitted which does not comply with State and Federal laws. (Amended by Ord. 490)

408. PLANNED DEVELOPMENT RESIDENTIAL OR PD-R ZONE. The PD-R or Planning Development Residential Zone is intended to permit a more creative approach in the residential development of land resulting in a more efficient, attractive, desirable use of open area; to permit flexibility in design, including pedestrian and vehicular pathways, and placement of off-street parking areas. The PD-R Zone is further intended to realize best the potential of the sites characterized by special features of shape, topography, or size.

A. PRINCIPAL PERMITTED USES

1. Single-family dwellings and servant quarters and guest houses, subject to the regulations contained in subparagraph C of Section 403, RESIDENTIAL ONE-FAMILY OR R-1 ZONE, and the development standards specified in Section 626. (Amended by Ord. 399)

2. Home Occupations, subject to Section 606 of this ordinance. (Amended by Ord. 399)

B. Uses Permitted With a Use Permit, Subject to Subparagraphs C, D and E of this Section

1. Two-family and three-family dwellings.

2. Hotels, motels, multi-family dwellings, rooming and boarding houses.

3. Recreation parks.

4. Religious institutions.

5. Churches, schools, rest homes and clinics and libraries.

6. Private and non-commercial clubs and lodges.

7. Social halls, fraternal and social organizations.

8. Mobile home parks (subject to regulations contained in Section 609).

This page was left blank to help facilitate two-sided printing.

Federal Emergency Management Agency

Washington, D.C. 20472

April 26, 2011

Mr. Mark Lovelace, Chairman
Humboldt County Board of Supervisors
825 Fifth Street, Room 111
Eureka, California 95501

Dear Chairman Lovelace:

This letter concerns the development of a new Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) for Humboldt County and incorporated areas by the U.S. Department of Homeland Security's Federal Emergency Management Agency (FEMA). On August 7, 2009, FEMA mailed a preliminary version of the new FIRM to your county and the cities in Humboldt County. On September 24, 2009, a mapping coordination meeting was held in Eureka with representatives from Humboldt County.

Ongoing discussion among staff from Humboldt County and FEMA has focused on identifying 1% annual chance (base) flood elevations to be mapped due to the de-accreditation of the levees along Redwood Creek. In addition to Redwood Creek, levee accreditation affects the Mad River levee situated within the city of Blue Lake and the adjacent unincorporated area as well as the Humboldt Bay levee along Jacobs Avenue in the city of Eureka.

FEMA is currently updating its guidelines for mapping flood hazards behind levee systems that cannot be recognized as providing protection from the base flood. The new set of guidelines for mapping flood hazards behind non-accredited levees are planned to be developed by the end of this year. As a result, FEMA will not issue a determination letter finalizing the flood elevations in Orick, or the new FIRM and FIS for Humboldt County and incorporated areas, until updated analyses of Redwood Creek that meet FEMA guidelines are available.

FEMA is not seeking changes to Title 44, Chapter 1, Section 65.10, of the Code of Federal Regulations, which describes the types of information needed to recognize a levee system as providing protection from the base flood. Communities and levee owners continue to be required to provide structural certification of a levee system recognized on a FIRM. If Humboldt County is preparing levee certification documentation, please continue your progress on these activities and inform FEMA of any schedule updates and milestones reached.

FEMA floodplain management and engineering staff will continue to coordinate with County staff to discuss the mapping project, and ensure local officials understand the project tasks and timeline. Although mapping current flood hazards is an ongoing challenge, we continue to

look forward to working closely with the communities in Humboldt County to develop accurate flood hazard information, make residents aware of the risks they face, the availability of flood insurance and steps to lower their flood risk.

We are committed to working jointly with Humboldt County staff throughout the future remapping process. If you or your staff has questions regarding the new FIRM for Humboldt County or flood hazard mapping in general, please contact Mr. Eric Simmons, of FEMA Region IX, at (510) 627-7029, or by email at eric.simmons@dhs.gov.

Sincerely,

Luis Rodriguez, P.E., Chief
Engineering Management Branch
Federal Insurance and Mitigation Administration

cc: Mr. Thomas Mattson, Humboldt County Public Works Director
Mr. Todd Sobolik, Chief Building Official, Community Development Services
Mr. Randy Mendosa, City Manager of Arcata
Mr. John Berchtold , City Manager of Blue Lake
Mr. David W. Tyson, City Manager of Eureka
Mr. Jay Parish, City Manager of Ferndale
Mr. Duane V. Rigge, City Manager of Fortuna
Mr. Ron Hendrickson, City Manager of Rio Dell
Ms. Karen Suiker, Manager for the Town of Trinidad
Mr. Ricardo Pineda, California Department of Water Resources
Ms. Janice Lera-Chan, USACE San Francisco District
Representative Mike Thompson District Office

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Memorandum

Reference: 010003.401
Date: June 16, 2011
To: Mike Foget
From: Brian Freeman BF
Subject: Blue Lake Industrial Park Utility Evaluation

We have completed our review of the existing utilities at the Blue Lake Industrial Park.

The list below describes the minimum improvements to complete the existing industrial park utilities:
Storm Water: The entire development is served from drop inlets along Taylor Way.
Sanitary Sewer: Phase II of the Industrial Park improvement plans included sanitary sewer main completion along the City Right-of-way (to the end of Taylor Way). The improvements also included a duplex pump station, this station was later utilized for parts by the City. To complete the park, this pump station would need to be repaired with a duplex 5 hp pump station and controls.
Water: As with sewer, the entire water system was completed to the end of Taylor Way with a 10" Ductile Iron Pipe.
Electrical: We assume extending the PUE joint trench from the east of Tomaso's to the end of Taylor Way.

In addition we have included in the engineer's opinion of construction costs, the cost to loop the water main from Taylor Way to Rancheria Road (items #4-8) and the easement cost. This is not necessary for the existing industrial park, but it would provide a looping of the water system.

Please review the costs and we will discuss.

City of Blue Lake
Industrial Park Water Improvments & Sewer Repair

Job No.: 010003.401
Date: 16-Jun-11

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Item	Description	Quantity	Unit	Unit Cost	Amount
1	Mobilization/Demobilization (5%)	1	LS	$ 9,400	$ 9,400
2	Traffic Control	1	LS	$ 2,500	$ 2,500
3	SWPPP Develop & Implement	1	LS	$ 6,000	$ 6,000
4	10" Ductile Iron Water Pipe Complete	1,230	LF	$ 80	$ 98,400
5	Air/Vac Valves	4	EA	$ 5,000	$ 20,000
6	Gate Valves	4	EA	$ 3,000	$ 12,000
7	Fittings & Appurtenances	1	LS	$ 10,000	$ 10,000
8	Services (4" Assumed)	2	EA	$ 3,000	$ 6,000
9	Gorman Rupp Submersible Pumps (5hp e	1	LS	$ 10,000	$ 10,000
10	Electrical Improvements @ Pumps	1	LS	$ 3,000	$ 3,000
11	Miscellaneous Electrical	1	LS	$ 20,000	$ 20,000
Subtotal					$ 197,300
Construction Contingency		15%	%	$ 29,600	$ 29,600
Easement Purchase (30' width)		36,000	SF	$0.50	$ 18,000
Survey and Easement Description		1	LS	$ 15,000	$ 15,000
Design Engineering		1	LS	$ 10,000	$ 10,000
Planning and Permitting		3%	%	$ 5,900	$ 5,900
Construction Management		5%	%	$ 9,900	$ 9,900
TOTAL					**$ 285,700**

CITY OF BLUE LAKE

Consumer Confidence Report for 2009

Water Quality Report

Introduction and Background

For a number of years, California State Law has required that water systems prepare an Annual Water Quality Report for its customers providing information regarding the quality of water delivered to them. This report represents the City of Blue Lake's 2009 Consumer Confidence Report. California regulations prescribe what information must be presented by public water systems in their Consumer Confidence Report. It is a snapshot of the quality of the water that we provided last year. Included are details about where your water comes from, what it contains, and how it compares to State standards.

If you have any questions about this report or the quality of your drinking water, please call Bob Giroux at 668-5655.

Water Source

Drinking water delivered by the City of Blue Lake is purchased from Humboldt Bay Municipal Water District (HBMWD). The water is drawn from wells located in the bed of the Mad River northeast of Arcata. These wells, called Ranney Wells, draw water from the sands and gravel of the riverbed at depths of 60 to 90 feet, thereby providing a natural filtration process. In summer this naturally filtered water is then disinfected via chlorination and delivered to the District's wholesale municipal and retail customers in the Humboldt Bay area. In winter it is further treated at a regional Turbidity Reduction Facility (TRF) which reduces the occasional turbidity (cloudiness) in the District's source water. While turbidity itself is not a health concern, the State Department of Public Health (DPH) became concerned that at elevated levels, turbidity could potentially interfere with the disinfection process.

The District's source water has been classified by the Department of Public Health as groundwater. The classification is important with respect to the regulations that a water system must follow to ensure water quality.

Water Quality in General

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (1-800-426-4791) or visiting their website (www.epa.gov/safewater).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, USEPA and the DPH prescribe regulations that limit the amount of certain contaminants in water provided by public water systems.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines o to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791) and website (www.epa.gov/safewater).

The City Of Blue Lake's Water Quality Results

In order to ensure that tap water is safe to drink, the California Department of Public Health prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Humboldt Bay Municipal Water District treats its water and performs annual monitoring and testing, in accordance with DPH regulations and requirements, to ensure its water is safe to drink. In 2009 the District conducted more than 550 water quality tests for over 90 contaminants. The City of Blue Lake additionally performed over 80 water quality tests within the City's water distribution system. The results from the 2009 monitoring and testing program indicate that our water quality is very high, as has consistently been the case in past years.

The attached table lists all the drinking water contaminants that were detected during 2009. It also lists the microbiological contaminants even though there were no positive tests. Additionally, the State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Therefore, results from prior years are included if such a contaminant was detected when it was last tested for. As you can see, there are very few entries in the table below because very few contaminants were actually detected in 2009 and prior years. It is once again important to note that the presence of these contaminants does not necessarily indicate that the water poses a health risk.

Coliform bacteria are naturally present in the environment and are used as an indicator that other bacteria may be present Coliform testing is part of the water quality testing program to help signal if there is a problem with the treatment or distribution system which warrants further investigation.

Turbidity is a measure of the cloudiness of the water. HBMWD monitors it because it is a good indicator of water quality. Since the Turbidity Reduction Facility (TRF) became operational in late 2002, HBMWD has met the State's secondary maximum contaminant level standard for turbidity.

You will find many terms and abbreviations in the attached table. To help you understand these terms, the following definitions are provided:

- **Public Health Goal (PHG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.
- **Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.
- **Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs cover the aesthetic quality of the water such as odor, taste, and appearance.
- **Primary Drinking Water Standard or PDWS:** MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.
- **Regulatory Action level (AL):** The concentration of a contaminant which, when exceeded, triggers treatment or other requirements that a water system must follow.
- **n/a**: not applicable
- **ND**: not detectable at testing limit
- **ppb**: parts per billion or micrograms per liter (µg/L)
- **ppm**: parts per million or milligrams per liter (mg/L)
- **pCi/l**: picocuries per liter (a measure of radiation)
- **mgCaCO3/L:** milligrams of calcium carbonate per liter (a measure of hardness)
- **microhmos:** a measure of specific conductance
- **NTU:** Nephelometric Turbidity Units

Additional Water Characteristics

Sodium and Hardness

Although sodium and hardness do not have MCLs, they are of interest to many consumers who are concerned about sodium intake.

Hardness is the sum of polyvalent cations present in the water, generally magnesium and calcium. The cations are usually naturally-occurring.

Sodium refers to the salt present in the water and is generally naturally occurring.

Sodium (ppm)	3.6
Hardness (mgCaCO3/L)	Range = ND – 36 Average = 27

Contaminant and Units	Level Detected	MCL	PHG (or MCLG)	Likely Source and Potential Effects (if above MCL)
Microbiological Contaminants				
Total Coliform Bacteria	Zero positive	More than one positive sample monthly	Zero positive	Coliform bacteria are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present.
Fecal Coliform and E. coli.	Zero positive	A routine sample and a repeat sample are total coliform positive, and one is also fecal coliform positive	Zero positive	Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes.
Disinfection Byproducts and Disinfection Residuals				
TTHMs – Total Trihalomethanes Chlorine HAA5 (Halocetic Acids)	Average = 5.3ug/L Average = .45mg/L ND	80ug/L 4mg/L 60ug/L	n/a 4 n/a	By-product of drinking water chlorination Drinking water disinfectant added for treatment By-product of drinking water chlorination (samples taken in 2008)
Inorganic Contaminants				
Copper (ppm) ten sites tested (copper and lead samples taken in 2008)	None above the AL. 90th percentile = 0.6	AL = 1.3mg/L	0.17	Internal corrosion of household plumbing; erosion of natural deposits; leaching from wood preservatives
Lead (ppb) Ten sites tested	None above the AL 90th percentile=1.7	AL = 15ug/L	2	Internal corrosion of household plumbing, erosion of natural deposits, discharges from industrial manufacturers
Regulated Contaminants with Secondary MCLs (as defined above, secondary MCLs address aesthetic quality of the water such as odor, taste, and appearance)				
Chloride (mg/L)	Range = 2.8 – 2.8 Average = 2.8	500	n/a	Runoff/leaching from natural deposits, or seawater influence
Sulfate (mg/L)	Range = 9.5 – 9.5 Average = 9.5	500	n/a	Runoff/leaching from natural deposits; industrial wastes
Specific Conductance (micromhos)	Range = 120 – 120 Average = 120	1,600	n/a	Substances that form ions when in water
Total Dissolved Solids (mg/L)	Range = 93 – 93 Average = 93	1,000	n/a	Runoff/leaching from natural deposits
Turbidity (NTU)	Range=0.03-0.79 Average = .13	5	n/a	Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms.

This page was left blank to help facilitate two-sided printing.

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Need B-2, 3, 4 LOGS

Memorandum #2

Reference:	008064
Date:	June 27, 2008
To:	Allison Kelly
Copy to:	
From:	David Bradley, Geotechnical Engineer
Subject:	**Proposed 4,000 Square Foot Building, Monda Way, Blue Lake Industrial Park**

We under stand the 50- by 80-foot building will be a metal-frame commercial building with a slab-on-grade floor. It will be primarily one story, although a portion of the building will have a second story storage mezzanine. Its planned location is as indicated on Figure 1, which also shows locations of borings made for the project. Boring logs are included in Attachment 1.

The site is a geologically recent (late Holocene) flood plain of the Mad River, which has been protected from active flooding by a levee. Formerly, the site supported a lumber mill with a now-backfilled log pond, as indicated on a map attached to the report "Preliminary Soils Investigation, Proposed Industrial Park, City of Blue Lake," by NGS (Northcoast Geotechnical Services) dated June 25, 1981. The approximate log pond location on this map was based on 1954 and 1958 aerial photographs. This map also includes some City of Blue Lake street locations. By using the streets as reference locations, this map was adjusted to the same scale as street maps from the software program Terrain Navigator Pro and from Google earth, and the Site Plan was also adjusted to the same scale. From these overlays, the log pond location, which also is apparent on the Terrain Navigator Pro map, was plotted with respect to the proposed building location, as shown on Figure 2, Approximate Pond Location. As may be seen from this informal sketch, the proposed building appears to lie within the former backfilled pond area.

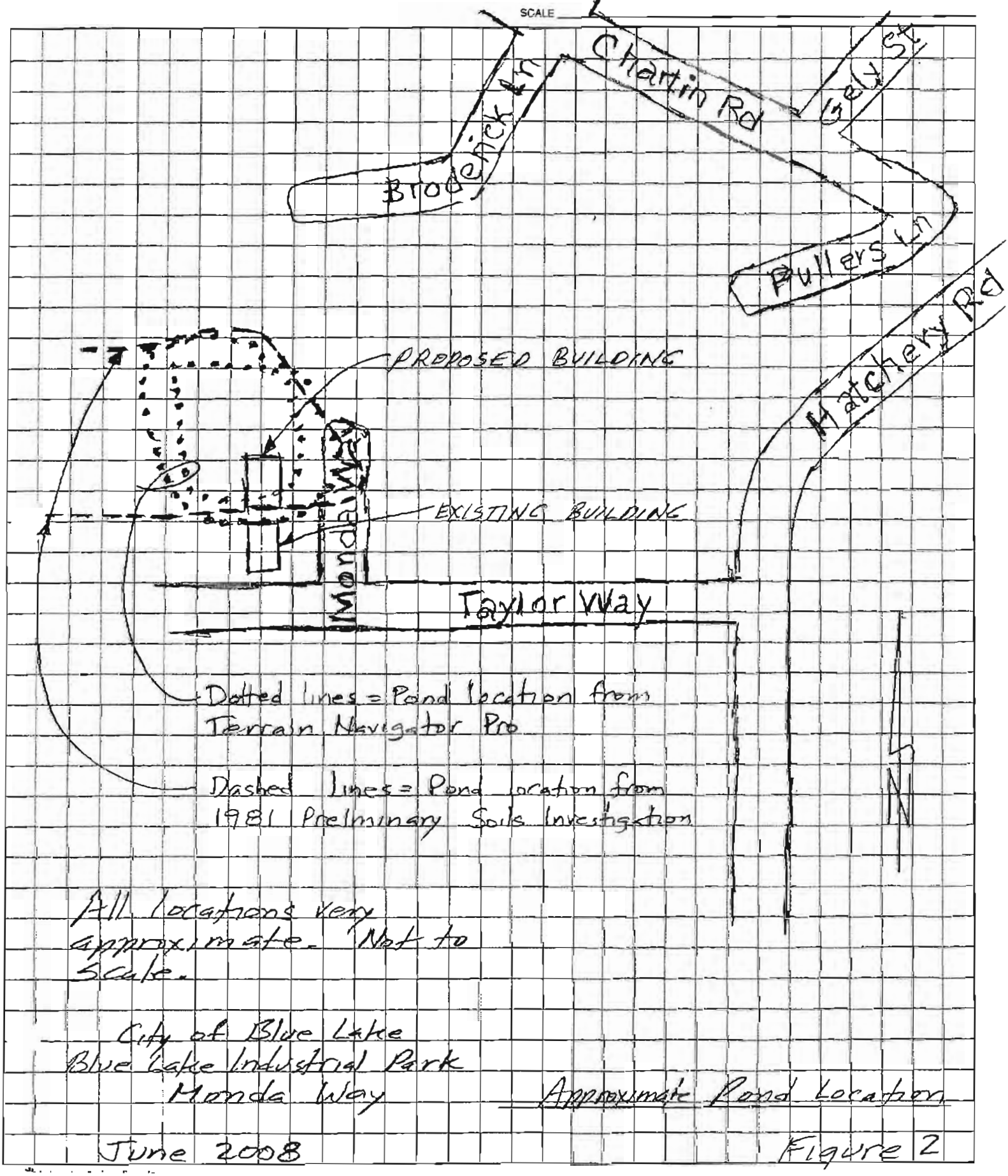
Borings B-2 through B-4 encountered approximately 13 feet of variable fill soils, including woody debris and some clayey, relatively soft soils, which are considered compressible. Boring B-1 was logged with fill in the upper 5 or 6 feet, and probable fill to a depth of about 11 feet. The logged fill soils are consistent with the presence of the former log pond.

The preliminary soils investigation for the industrial park, cited above, provides additional descriptions of soils, geologic, historic, and groundwater conditions, and is included herein by reference.

Boring 1 was drilled to the 36.5-foot depth, to investigate deeper soil conditions and liquefaction potential. An initial (unstabilized) groundwater level was encountered during drilling at approximately 19 feet. Beneath the fill, sandy, gravelly soils, consistent with typical alluvial flood plain deposits, were encountered. The percentage of fines (silts and clay) was laboratory tested in

SHN
ENGINEERS & GEOLOGISTS
812 W. Wabash Ave.
Eureka, CA 95501-2138
Tel. 707 / 441-8855
Fax: 707 / 441-8877

JOB
SHEET NO. OF
CALCULATED BY DATE
CHECKED BY DATE
SCALE



All locations very approximate. Not to Scale.

City of Blue Lake
Blue Lake Industrial Park
Monda Way

Approximate Pond Location

June 2008

Figure 2

these soils. A liquefaction analysis was conducted, based on the sampler penetration resistance blow counts, and the percent fines. Both higher and more moderate blow counts were recorded, which are indicators of the relative density of the sandy, gravelly, underlying deposits. The analysis indicated there are layers that could be subject to liquefaction, during a relatively rare, very strong and/or prolonged earthquake. It should be noted that cobbles in the underlying deposits can result in high blow counts that are not necessarily representative of the finer sandy matrix, so there may or may not be greater potential for liquefaction than indicated by the analysis. A potential for liquefaction is also consistent with late Holocene flood plain deposits beneath the water table.

Consequently, there are two primary geotechnical considerations at the site: a potential for liquefaction below the groundwater table, and potential settlement of the unconsolidated log pond backfill soils.

Liquefaction Considerations

It is relatively common that flood plain deposits along river banks show evidence of liquefaction during strong seismic events, typically resulting in cracking parallel to and near the river as the river bank soils move toward the channel as underlying soils liquefy and loose strength. This risk is likely to be higher in soils closer to the river bank, but it is conceivable that lateral spreading cracks and movement could occur further back from the river, possibly at the subject site. At the subject site, liquefaction, which in our opinion is likely to be associated only with a relatively rare, very strong or prolonged earthquake, presents the following estimated risks:

- a low to moderate risk of sand boils at the ground surface;
- a moderate to high risk of a few inches of co-seismic subsidence, which may not be uniform across the site; and
- a low to moderate risk of differential ground movement beneath the building site from lateral spreading.

To mitigate these risks, we recommend a well-reinforced floor slab that is resistant to bending, shear, or tensile deformations. With a floor slab resistant to pulling apart, and with a steel frame building, a low risk of building collapse in a major seismic event is concluded, and the building should meet the criteria in the following paragraph, which includes risk of some damage to the building.

Recent building codes have been based on the following criteria: structures should

> *be able to 1) resist a minor level of earthquake motion without damage; 2) resist a moderate level of earthquake ground motions without structural damage, but possibly experience some nonstructural damage; 3) resist a major level of earthquake ground motion having an intensity equal to the strongest either experienced or forecast for the building site, without collapse, but possibly with some structural as well as nonstructural damage* (Kramer, 1996).

Risk of liquefaction and related effects at the subject site should be commensurate with risks to other existing buildings in the near vicinity, because underlying geologic conditions are likely to be similar. It would be instructive to review geotechnical reports made for other structures in the Blue Lake Industrial Park concerning liquefaction potential and related effects.

Settlement Due to Log Pond Backfill

The underlying log pond backfill, which extends to about 13 feet in depth at the locations of borings B-1, B-2, and B-3, is primarily sandy and clayey, with the sandy and clayey layers containing variable amounts of silt, gravel, and woody debris. Specific descriptions are presented on the boring logs (Attachment 1). Sampler penetration blows counts in the sandy portions of the log pond backfill indicated Standard Penetration Test values of less than 10 (loose), and the clayey layers were logged as soft to medium stiff. If a high water table were to inundate these soils, they would be highly susceptible to liquefaction in strong seismic events. However, high groundwater conditions are not indicated.

We estimate that if the slab-on–grade structure is founded on a typical shallow foundation system, and is supported by existing fill materials as encountered by borings B-2, B-3, and B-4, it would be subject to total and differential settlement over time.

Except for decay of organics in the pond backfill, the log pond backfill should have completed most of its potential for settlement under its static self-weight. However, the addition of a building floor slab over this surface, along with assumed warehouse floor loadings, could result in significant settlement of loaded portions of the slab. Without warehouse loadings, under the weight of the slab itself, settlements should be relatively low, with total and differential settlement estimated from zero to an inch or two. With warehouse loadings, estimated total and differential settlements up to 4 inches or possibly more are estimated. Additionally, a few inches of co-seismic settlement could occur beneath the slab as a result of a relatively rare, very strong seismic event. This discussion would also apply to proposed parking areas overlying the former log pond, except the parking areas would not have long-term warehouse loadings.

We estimate that without mitigation, total and differential post-construction settlements of the building superstructure foundation loads (those that support the portion of the building above the floor slab level), could range from one-half to 6 inches, with additional risk of a few inches of co-seismic total and differential settlement. Co-seismic settlement results from consolidation of loose granular soils (sands and gravels) when subjected to strong seismic ground motion.

Mitigation alternatives for the project include:

- Construct the building with continuous foundations and thickened slab edges reinforced to act as grade beams, structurally integrated with a floor slab that is relatively strong in resistance to bending, shear, and tensile forces, and with column (point load) foundations also structurally integrated with the floor slab and grade beams. In this way, no part of the building is able to settle independently of adjacent areas, and settlement potential should be distributed over larger areas, and reduced. This decreases risk of localized structural distress, such as pronounced cracking, offsets, or pull-aparts in the structure, but won't

necessarily prevent differential settlement of larger building areas (for example one corner or end of the building may settle more than the rest. Some additional differential settlement might occur as a result of co-seismic settlement resulting from a strong seismic event. If this mitigation alternative is used, we estimate distributed total and differential settlements of the building and the floor slab that could vary up to 4 inches.

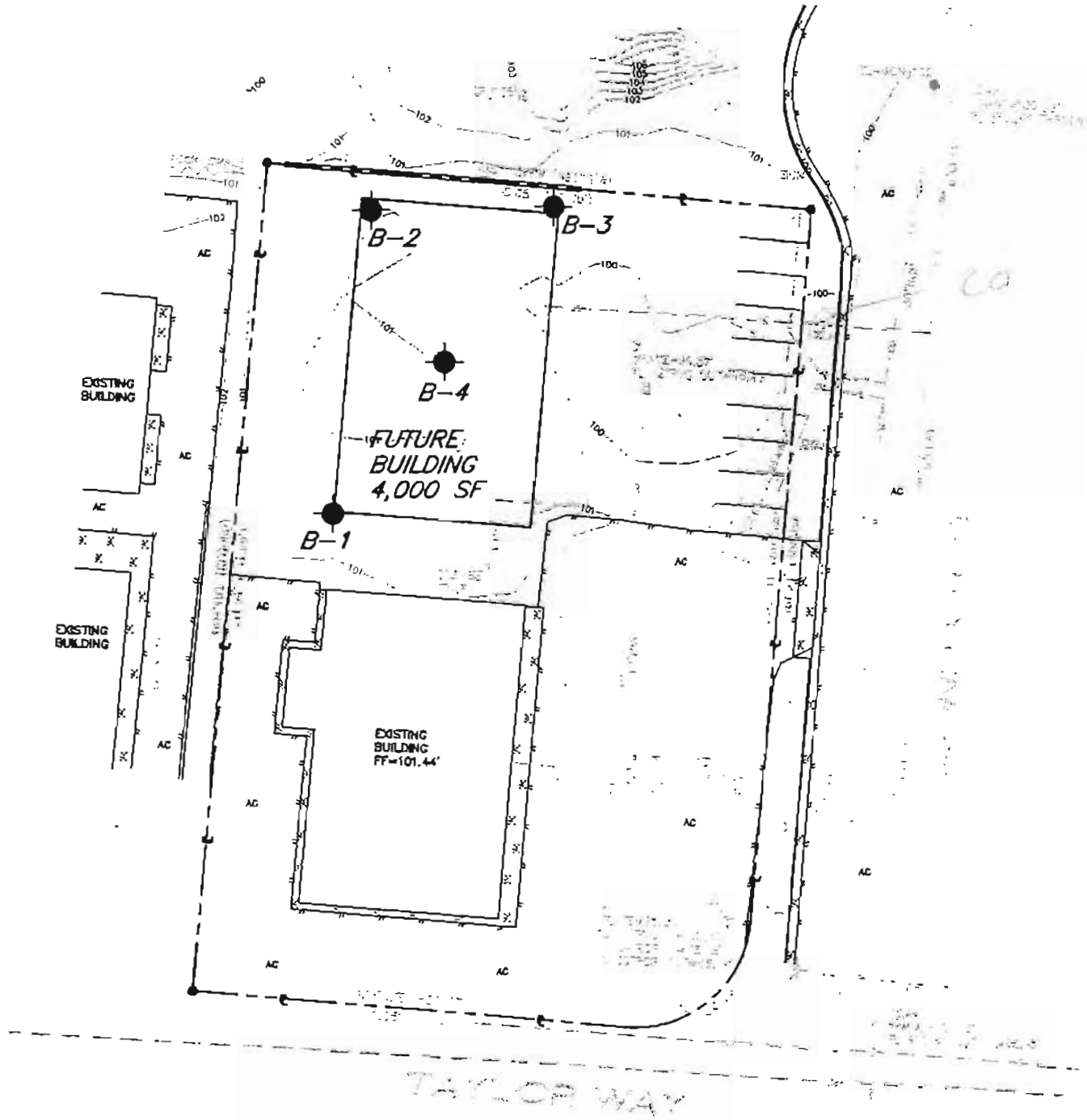
- Support the building superstructure using deep foundations (such as, piling or metal auger foundations) and using the existing ground to support the floor slab of the building. This alternative should prevent total or differential settlement of the building superstructure, but would not prevent total of differential settlement of the building floor slab. We estimate the building superstucture would experience total and differential post-construction settlements not exceeding one-half inch. We estimate that total and differential settlements of the floor slab may vary up to an inch without warehouse floor loadings, and up to 4 inches with them.
- A third alternative is to excavate the log pond backfill from beneath the building footprint and for a distance outside it, and replacing the removed material with compacted structural fill. This alternative may be more expensive than the previous alternatives, but would reduce estimated post-construction, total and differential, consolidation settlement potential to less than an estimated one-half inch under static conditions. Risks of co-seismic settlement and liquefaction would remain as discussed above. Material excavated from the log pond could be sorted to remove clayey and woodwaste-containing soils, with the remaining excavated material reused for compacted fill. This should reduce the amount of material that would need to be off-hauled, and the amount of material that would need to be imported. From the boring information obtained, the log pond backfill depth is about 13 feet, and about a quarter or third of the existing material may have to be off-hauled and replaced. Because log pond backfill soil conditions are likely to be variable, this should be considered a potentially inaccurate estimate based on the boring logs.

These alternatives address mitigation of risk from consolidation settlement under static project loads applied to the relatively loose, soft, and woody-debris-containing log pond backfill soils. The structure would still be subject to potential liquefaction risks, as discussed above.

Recommendations

Assuming the liquefaction and co-seismic settlement risks are acceptable to the owner, we provide below recommendations for the three log pond settlement mitigation alternatives described above.

For all alternatives, due to potential effects from liquefaction, we recommend that continuous and point load (isolated or column) foundations be structurally integrated with the floor slab, and the floor slab should be relatively strong in bending, shear, and tensile strength. We recommend a minimum slab thickness of 5 inches, with minimum reinforcing of No. 5 reinforcing bars at 16 inches on centers, both ways. Where bearing walls are to be supported by strip (continuous) footings, and along slab perimeters, design strip (continuous) foundations, or thickened slab edges,



EXPLANATION

B-1 SOIL BORING LOCATION AND DESIGNATION

N

0 40

1"=40'

ALL LOCATIONS ARE APPROXIMATE

SHN Consulting Engineers & Geologists, Inc.	City of Blue Lake Blue Lake Industrial Park Monda Way	Site Plan SHN 008064	
	June 2008	008064-Geo.dwg	Figure 1

that are capable of spanning a minimum of 6 feet without soil support beneath them, assuming a linear foundation alignment, with soil support on either side of the 6-foot "gap" in soil support. At corners, use the same structural section calculated for a straight foundation run.

For the first log pond settlement mitigation alternative, we recommend increasing the floor slab thickness to a minimum of 6 inches, and reinforcing it as described in the proceeding paragraph. We also recommend designing the continuous foundations to span a minimum of 10 feet without soils support beneath, as described in the proceeding paragraph, and removing and recompacting the upper foot of existing site soils beneath the floor slab to a minimum of 90% compaction as referenced to the American Society for Testing and Materials-International (ASTM) D 1557 test method, as recommended in the general grading recommendations presented below. Settlement estimates are provided above.

For the second log pond settlement mitigation alternative, auger foundations are recommended to be installed to support the foundations that support building superstructure loads. Auger foundation support capacity is determined by installation torque. Strong, galvanized, foundation augers specifically designed for the purpose, should be used (such as, Chance brand augers or equivalent). The augers should penetrate to a minimum depth of 15 feet, and additionally to the torque and depth required to achieve their design capacities. Settlement estimates are provided above.

For the third alternative, remove and replace the log pond backfill soils beneath the building footprint and for a distance of 7 feet outside of it, following the grading recommendations presented below. As the materials are excavated, any clayey strata, or strata containing woodwaste, should be removed and not re-used for compacted fill. The remaining material removed can be blended and re-used as compacted fill. The foundations and floor slab should then be supported on the compacted fill. Settlement estimates are presented above.

This third alternative is considered preferable, as it essentially eliminates significant total and differential settlement potential.

General Recommendations

Site Preparation and Grading

We recommend the following:

1. As appropriate, notify Underground Service Alert (1-800-642-2444) prior to commencing site work, and use this location service and other methods to avoid injury or risk to life from underground and overhead utilities, and to avoid damaging them.
2. To prepare subgrade surfaces to support improvements or structural fill, strip and remove all existing improvements, surface debris, vegetation, and major root systems. Also strip existing uncontrolled fill, except where existing fill is to be left in place, and any

disturbed/soft/loose soils. Stripping should extend out three feet beyond the perimeter of the improvement, except it should extend out 7 feet for the third alternative discussed above.

3. With the exception of vertical sides or steps, subgrade surfaces to receive structural fill should be cut-graded to slope no steeper than 15%.
4. Conduct a geotechnical engineering review of exposed subgrade surfaces that will support structures, or that will receive structural fill to support structures. The geotechnical engineer will recommend that remaining unsuitable soils (such as, overly weak, compressible, or disturbed soils,) be additionally stripped. This evaluation may include in-place soil density testing, as well as proofrolling as described in the following paragraph.
5. Scarify and compact (90% minimum ASTM 1557) the upper 6 inches of exposed subgrade soils that are to receive structural fills, or improvements such as floor slabs-on-grade. Alternatively, the subgrade surface may be proofrolled using a loaded 10-wheel, 10-cubic yard dump truck, or equivalent. The proofrolling should be accomplished under the observation of the geotechnical engineer with the soil damp or moist (not wet or dry), and a firm, non-yielding surface should be evident during the proofrolling. If a yielding surface is observed (pumping, weaving under wheel loads), additionally excavate the yielding area, and replace the overexcavated material with Caltrans specification Class 2 baserock, in a manner that will result in a stable subgrade surface under the proofrolling, following the overexcavation and replacement.
6. Structural fill material should consist of relatively non-plastic (Liquid Limit less than 40, Plasticity Index less than 14) material containing no organic material or debris, and no individual particles over 6 inches across. If gravel is used, it should be well graded, to include a variety of particle sizes to minimize relatively large void spaces, into which fine-grained soils can migrate. We suggest the use of well-graded granular soils (sand, gravel) for fill, because these soils are relatively easy to moisture condition and compact.
7. Structural fill should be placed to design grades and compacted to a minimum of 90% of the maximum relative dry density as determined by the current ASTM D1557 test method.

Seismic Design

We recommend that proposed structures be designed and built to withstand strong seismic shaking. The minimum standard for construction of the structure should be in accordance with the latest edition of the applicable building code for the most seismically active areas.

The 2007 California Building Code requires the following information for seismic design. Based on our knowledge of subsurface and geologic conditions, we estimate a Site Class D for the project. Based on the Site Class and the latitude and longitude, we calculated the design spectral response acceleration parameters S_S, S_1, F_a, F_v, S_{MS}, S_{M1}, S_{DS}, and S_{D1} using the United States Geological Survey (USGS) seismic calculator program, "Seismic Hazard Curves, Response Parameters, Design Parameters: Seismic Hazard Curves, and Uniform Hazard Response Spectra," v. 5.0.8, dated November 20, 2007. Calculated values are presented in the following Table 1, Seismic Design Criteria.

For Occupancy I, II, and III structures, where S_1 is greater or equal to 0.75, the Seismic Design Category is E. (Occupancy I structures are minor or temporary structures, with low hazard to human life in case of a failure. Occupancy II structures are buildings, such as residences, that are not listed in Categories I, III, and IV. Occupancy III structures are those that represent a substantial hazard to human life in the event of a failure, such as places of public assembly. Occupancy IV structures are essential facilities, such as hospitals, and fire and police stations.)

Table 1
Seismic Design Criteria

Latitude	40.8795
Longitude	-123.9936
Site Class	D
S_S	2.669
S_1	1.046
F_a	1.0
F_v	1.50
S_{MS}	2.669
S_{M1}	1.570
S_{DS}	1.779
S_{D1}	1.046
Occupancy Category	II
Seismic Design Category	E

Foundations

Additional foundation recommendations are provided with the recommendations for the three alternatives presented above.

Following site preparation as recommended, foundations may be constructed. Foundations should be sized, embedded, and reinforced to at least the minimums presented in the current edition of the California Building Code. Such foundations may be designed so they do not exceed an allowable bearing capacity of 1,000 pounds per square foot (psf) for dead plus live loads, except for the third alternative, where they may be designed not to exceed an allowable bearing capacity of 2,000 psf. These values may be increased by one-third to account for the short-term effects of wind and/or seismic loading.

A horizontal friction coefficient of 0.35 may be used for the footing/soil contact. Frictional resistance may be calculated in conjunction with an allowable lateral passive pressure represented by an equivalent fluid weighing 200 pounds per cubic foot (pcf) for short-term loadings, such as lateral foundation resistance in response to wind or earthquake loadings. Lateral passive pressure can be calculated where footings bear laterally against competent undisturbed native subsoils, or structural fill.

The ground surface around the structure perimeter should be sloped away, or other design measures implemented to provide positive surface water drainage away from perimeter foundation areas.

Slabs-on-Grade

Following site preparation and grading as recommended, which should result in a compacted structural fill surface, or a compacted existing fill surface, slabs-on-grade may be constructed.

Concrete slabs can become damp from capillary water migration. As a precaution to minimize transmission of soil moisture up through floor slabs in habitable areas, or other areas where damp slabs should be avoided, we recommend that the slabs be underlain by a moisture/vapor barrier manufactured for the purpose (such as, Moiststop 737, TU-TUFF 4 by Sto-Cote Products, or Griffolyn T-65 by Griffolyn Company, or a polyethylene vapor reduction membrane at least 10 mils in thickness). The membrane should be overlapped at least 2 feet and taped at joints. This membrane should overlie a capillary break consisting of a 4-inch layer of No. 4 U.S. Sieve (0.187 inch) minimum, up to 1-inch maximum, gravel. (The capillary break provides a layer with relatively large, intergranular, void spaces, which inhibits the capillary rise of ground moisture.)

It has been common practice to cover the membrane with a few inches of sand, to protect the membrane during construction, and to aid in concrete curing. However, some designers consider the sand layer to be a potential source of moisture that can adversely affect the slab, either from the water present in the sand during construction, or from surface water or groundwater gaining access to the sand layer above the membrane, while some designers consider the sand layer important in concrete curing. We understand the American Concrete Institute has produced recommendations or guidelines with respect to this issue. Whether or not a sand layer is placed above the membrane, the membrane should be protected against tearing or puncture during construction.

Construction Phase Monitoring

In order to assess construction conformance with the intent of our recommendations, it is important that a representative of our firm:

- monitor adequate site stripping, including removal of vegetation, root-filled soils, and uncontrolled existing fill soils;
- determine methods for and monitor adequate subgrade preparation;
- monitor placement of structural fill; and
- monitor foundation excavations.

The construction phase monitoring is important because it provides the owner and SHN the opportunity to verify anticipated site conditions, and recommend appropriate changes in design or construction procedures if site conditions encountered during construction vary from those described in this report.

Plan and Specification Review

We suggest communications be maintained during the design phase, between the design team and SHN, to optimize compatibility between the design and soil and groundwater conditions.

We also suggest that we be retained to review those portions of the plans and specifications that pertain to earthwork and foundations. The purpose of this review is to confirm that our earthwork and foundation recommendations have been properly interpreted and implemented during design. If we are not provided this opportunity for review of the plans and specifications, our recommendations could be misinterpreted.

Reference

Kramer, S. L. (1996). *Geotechnical Earthquake Engineering*. Upper Saddle River:Prentice-Hall, Inc.

Attachment 1. Boring Logs

This page was left blank to help facilitate two-sided printing.

Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA 95501 ph. (707) 441-8855 fax. (707) 441-8877

PROJECT: Blue Lake Industrial
JOB NUMBER: 008064
LOCATION: Blue Lake, CA
DATE DRILLED: 5/21/08
GROUND SURFACE ELEVATION: –
TOTAL DEPTH OF BORING: 36.5 feet
EXCAVATION METHOD: Truck mounted, Flight/hollow stem auger
SAMPLER TYPE: SPT, no liners
hand hammer drive
LOGGED BY: MAR

BORING NUMBER B-1

DEPTH (FT)	BULK SAMPLES	SS SAMPLES	BLOWS PER 0.5'	USCS	PROFILE	DESCRIPTION	% Moisture	Dry Density (pcf)	Unc. Com. (psf)	U.C. (psf) by P.P.	% Passing 200	REMARKS
0.0						FILL: Gravel, sand, silt, clay, asphalt pieces, pipe pieces, junk.						
-1.0												
-2.0												
-3.0			4	SW		FILL: SAND, fine to coarse, with gravel (rounded, up to 1"), clay, silt, loose, moist, dark gray to dark grayish brown.						
			4									
-4.0			5									
-5.0												
-6.0			8	CL/GC		FILL: SAND, fine to coarse, clayey, with fine to coarse gravel, medium dense, moist, grayish brown.					13.5	
			9									
-7.0			8	SM		FILL?: SAND, fine, silty, slightly clayey, medium dense, damp, gray.					36.9	Fill or native?
-8.0												
-9.0			27	SM/GW		FILL?: SAND, fine to coarse, gravelly (fine to coarse, subangular to subrounded), dense, dry, gray.						Fill or native?
			24									
-10.0			17									
-11.0											13.6	
-12.0			6	SW		SAND, fine to coarse, with silt, fine gravel (subangular to subrounded), loose to medium dense, damp, dark gray.						
			5									
-13.0												

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

FIELD LOG

Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA 95501 ph. (707) 441-8855 fax. (707) 441-8877

PROJECT: Blue Lake Industrial
JOB NUMBER: 008064
LOCATION: Blue Lake, CA
DATE DRILLED: 5/21/08
GROUND SURFACE ELEVATION: --
TOTAL DEPTH OF BORING: 36.5 feet
EXCAVATION METHOD: Truck mounted, Flight/hollow stem auger SAMPLER TYPE: SPT, no liners
LOGGED BY: MAR
hand hammer drive

BORING NUMBER B-1

DEPTH (FT)	BULK SAMPLES	SS SAMPLES	BLOWS PER 0.5'	USCS	PROFILE	DESCRIPTION	% Moisture	Dry Density (pcf)	Unc. Com. (psf)	U.C. (psf) by P.P.	% Passing 200	REMARKS
			5	SM		SAND, silty, loose, damp, dark gray.						Native based on depth to native in other borings
-14.0												
-15.0			8	SW GW		SAND (fine to coarse) and GRAVEL (fine to coarse, subangular to subrounded), with silt, very slightly clayey, medium dense, moist, gray to grayish brown.					10.0	
			9									
-16.0			11									
-17.0												Coarse gravel per driller. Switching to hollow stem auger.
-18.0												
-19.0	▽											
-20.0			11	GW		GRAVEL, fine to coarse, subangular to subrounded, fine to coarse sandy, with silt, dense, saturated, gray.						Sampler came out wet
			17								27.7	
-21.0			17									
-22.0												
-23.0												
-24.0												
-25.0			6	GW		GRAVEL, fine to coarse, subangular to subrounded, fine to coarse sandy, with silt, loose, saturated, gray.						
			6									
-26.0			3								4.5	

FIELD LOG

Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA 95501 ph. (707) 441-8855 fax. (707) 441-8877

PROJECT: Blue Lake Industrial
JOB NUMBER: 008064
LOCATION: Blue Lake, CA
DATE DRILLED: 5/21/08
GROUND SURFACE ELEVATION: –
TOTAL DEPTH OF BORING: 36.5 feet
EXCAVATION METHOD: Truck mounted, Flight/hollow stem auger
SAMPLER TYPE: SPT, no liners
LOGGED BY: MAR
hand hammer drive

BORING NUMBER B-1

DEPTH (FT)	BULK SAMPLES	SS SAMPLES	BLOWS PER 0.5'	USCS	PROFILE	DESCRIPTION	% Moisture	Dry Density (pcf)	Unc. Com. (psf)	U.C. (psf) by P.P.	% Passing 200	REMARKS
-27.0												
-28.0												
-29.0												
-30.0			4	SW		SAND, fine to coarse, loose, saturated, gray.					5.9	Heaving sands
			20									
-31.0			26	GW		GRAVEL, fine to coarse, sandy, fine to coarse, with silt, medium dense, saturated, gray.						
-32.0												
-33.0												
-34.0												
-35.0			29	GW		GRAVEL, fine to coarse, sandy, fine to coarse, with silt, dense, saturated, gray.					8.9	
			35									
-36.0			50/4"									
						Bottom of hole at 36.5 feet.						
-37.0												
-38.0												
-39.0												

Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA 95501 ph. (707) 441-8855 fax. (707) 441-8877

PROJECT: Blue Lake Industrial
JOB NUMBER: 008064
LOCATION: Blue Lake, CA
DATE DRILLED: 5/21/08
GROUND SURFACE ELEVATION: --
TOTAL DEPTH OF BORING: 18.0 feet
EXCAVATION METHOD: Truck mounted, Flight/hollow stem auger
SAMPLER TYPE: SPT, no liners
LOGGED BY: MAR
Autohammer

BORING NUMBER B-2

DEPTH (FT)	BULK SAMPLES	SS SAMPLES	BLOWS PER 0.5'	USCS	PROFILE	DESCRIPTION	% Moisture	Dry Density (pcf)	Unc. Com. (psf)	U.C. (psf) by P.P.	% Passing 200	REMARKS
0.0						FILL: Gravel, sand, silt, clay, asphalt pieces, pipe pieces, junk.						
-1.0												
-2.0												
-3.0			5	CL/GC		FILL: CLAY, fine sandy, with gravel (fine to coarse, subangular), medium stiff, damp to moist, very dark gray.					22.5	
			7									
-4.0			3									
-5.0												
-6.0			3	CL/GC		FILL: SAND, fine to coarse, clayey, gravelly to with gravel (fine to coarse, subangular to subrounded), loose, moist, dark gray.					21.8	
			2									
-7.0			3									
-8.0												
-9.0			2	SC/CL/GC		FILL: CLAY, sandy (fine to coarse), silty, gravelly, to SAND, fine to coarse, clayey, gravelly, silty, loose/medium stiff, moist, dark gray.					28.8	
			3									
-10.0			4									
-11.0												
-12.0			13	SC/SW		FILL: SAND, fine to coarse, clayey, silty, with gravel (fine to medium, subangular to subrounded), medium dense, moist, dark gray,					16.5	
			7								12.8	
-13.0												

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

FIELD LOG

Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA 95501 ph. (707) 441-8855 fax. (707) 441-8877

PROJECT: Blue Lake Industrial
JOB NUMBER: 008064
LOCATION: Blue Lake, CA
DATE DRILLED: 5/21/08
GROUND SURFACE ELEVATION: ~
TOTAL DEPTH OF BORING: 18.0 feet
EXCAVATION METHOD: Truck mounted, Flight/hollow stem auger **SAMPLER TYPE:** SPT, no liners
LOGGED BY: MAR
Autohammer

BORING NUMBER B-2

DEPTH (FT)	BULK SAMPLES	SS SAMPLES	BLOWS PER 0.5'	USCS	PROFILE	DESCRIPTION	% Moisture	Dry Density (pcf)	Unc. Com. (psf)	U.C. (psf) by P.P.	% Passing 200	REMARKS
			7			woody debris.						Woody debris
-14.0						FILL: SAND, fine to coarse, with silt, gravel (fine to medium, subangular to subrounded), medium dense, moist, dark gray.						
-15.0			14	SM		SAND, fine, silty, with clay, medium dense, moist, dark gray.						Native soils. Sample not retained, trying again with catcher
			9								6.0	
-16.0			15									
			30/18"	SW GW		SAND, fine, with gravel to gravelly (fine to coarse, subangular to subrounded), medium dense, moist to wet, dark gray to grayish brown.					17.2	
-17.0											7.0	
-18.0						Bottom of hole at 18.0 feet. No static groundwater observed.						
-19.0												
-20.0												
-21.0												
-22.0												
-23.0												
-24.0												
-25.0												
-26.0												

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

FIELD LOG

Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA 95501 ph. (707) 441-8855 fax. (707) 441-8877

PROJECT: Blue Lake Industrial
JOB NUMBER: 008064
LOCATION: Blue Lake, CA
DATE DRILLED: 5/21/08
GROUND SURFACE ELEVATION: –
TOTAL DEPTH OF BORING: 16.5 feet
EXCAVATION METHOD: Truck mounted, Flight/hollow stem auger
SAMPLER TYPE: SPT, no liners
Autohammer
LOGGED BY: MAR

BORING NUMBER B-3

DEPTH (FT)	BULK SAMPLES	SS SAMPLES	BLOWS PER 0.5'	USCS	PROFILE	DESCRIPTION	% Moisture	Dry Density (pcf)	Unc. Com. (psf)	U.C. (psf) by P.P.	% Passing 200	REMARKS
0.0						FILL: Gravel, sand, silt, clay, asphalt pieces, pipe pieces, junk.						
-1.0												
-2.0												
-3.0			5			FILL:SAND, fine to medium, clayey, with fine to medium gravel, medium dense, moist, gray, some woody debris.					22.5	
			5									
-4.0			3			FILL: SAND, fine to coarse, clayey, gravelly (fine to coarse, subrounded), loose, moist, gray, some woody debris.						
-5.0												
-6.0			2			FILL: SAND, fine to coarse, silty, clayey, with gravel (fine to coarse), asphalt chunks, loose, moist, very dark gray to black, charcoal pieces.						
			3									
-7.0			3									
-8.0												
-9.0			1			FILL: CLAY, fine sandy, silty, with gravel (fine to medium, subangular), to SAND, fine, clayey, silty, with gravel, soft/loose, moist, black, woody debris.					30.8	
			3									
-10.0			5									
-11.0												
-12.0			4			FILL?: SAND, fine to coarse, with silt, slightly clayey, loose, damp, very dark gray, small wood fragments.					12.8	
			4									
-13.0												

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

FIELD LOG

Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA 95501 ph. (707) 441-8855 fax. (707) 441-8877

PROJECT: Blue Lake Industrial
JOB NUMBER: 008064
LOCATION: Blue Lake, CA
DATE DRILLED: 5/21/08
GROUND SURFACE ELEVATION: –
TOTAL DEPTH OF BORING: 16.5 feet
EXCAVATION METHOD: Truck mounted, Flight/hollow stem auger
SAMPLER TYPE: SPT, no liners
LOGGED BY: MAR
Autohammer

BORING NUMBER B-3

DEPTH (FT)	BULK SAMPLES	SS SAMPLES	BLOWS PER 0.5'	USCS	PROFILE	DESCRIPTION	% Moisture	Dry Density (pcf)	Unc. Com. (psf)	U.C. (psf) by P.P.	% Passing 200	REMARKS
-14.0			5			SAND, fine to coarse, with silt, loose to medium dense, damp to moist, very dark gray.						Native? Small wood pieces may have fallen in
-15.0			6			SAND, fine to coarse, slightly silty, with few rounded gravels (fine to coarse), medium dense, damp, gray.					6.0	
-16.0			8									
-17.0			8			Bottom of hole at 16.5 feet. No free groundwater observed.						
-18.0												
-19.0												
-20.0												
-21.0												
-22.0												
-23.0												
-24.0												
-25.0												
-26.0												

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time

FIELD LOG

Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA 95501 ph. (707) 441-8855 fax. (707) 441-8877

PROJECT: Blue Lake Industrial
JOB NUMBER: 008064
LOCATION: Blue Lake, CA
DATE DRILLED: 5/21/08
GROUND SURFACE ELEVATION: --
TOTAL DEPTH OF BORING: 16.5 feet
EXCAVATION METHOD: Truck mounted, Flight/hollow stem auger
SAMPLER TYPE: SPT, no liners
Autohammer
LOGGED BY: MAR

BORING NUMBER B-4

DEPTH (FT)	BULK SAMPLES	SS SAMPLES	BLOWS PER 0.5'	USCS	PROFILE	DESCRIPTION	% Moisture	Dry Density (pcf)	Unc. Com. (psf)	U.C. (psf) by P.P.	% Passing 200	REMARKS
0.0						FILL: Gravel, sand, clay, asphalt pieces, pipe pieces, junk.						
-1.0												
-2.0												
-3.0			2			FILL: SAND, fine to coarse, with silt and clay, fine gravel, loose, moist, dark gray, woody debris.						
			2									
-4.0			3								11.4	
-5.0												
-6.0			1			FILL: CLAY, silty, with fine to coarse sand, occasional fine gravel, soft, moist, very dark grayish brown, woody debris.						
			3									
-7.0			4									
-8.0												
-9.0			<1			FILL: SAND, fine to coarse, silty, clayey, with gravel (fine to medium), loose, moist, very dark grayish brown, woody debris.						
			2/1'								28.7	14% Organics
-10.0												
-11.0												
-12.0			8			SAND, fine, silty, loose to medium dense, damp, dark gray, woody debris to 13 feet.						
			4								24.9	
-13.0												

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time.

FIELD LOG

Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA 95501 ph. (707) 441-8855 fax. (707) 441-8877

PROJECT: Blue Lake Industrial
LOCATION: Blue Lake, CA
GROUND SURFACE ELEVATION: –
EXCAVATION METHOD: Truck mounted, Flight/hollow stem auger
LOGGED BY: MAR

JOB NUMBER: 008064
DATE DRILLED: 5/21/08
TOTAL DEPTH OF BORING: 16.5 feet
SAMPLER TYPE: SPT, no liners
Autohammer

BORING NUMBER B-4

DEPTH (FT)	BULK SAMPLES	SS SAMPLES	BLOWS PER 0.5'	USCS	PROFILE	DESCRIPTION	% Moisture	Dry Density (pcf)	Unc. Com. (psf)	U.C. (psf) by P.P.	% Passing 200	REMARKS
			9									Native
-14.0						No wood by 13.5.						
-15.0			4			SAND, fine to coarse, with silt to slightly silty, few fine gravels, loose to medium dense, moist to wet, dark gray.					9.7	CLOSE TO GW
-16.0			4									
			5									
-17.0						Bottom of hole at 16.5 feet. No free groundwater observed.						
-18.0												
-19.0												
-20.0												
-21.0												
-22.0												
-23.0												
-24.0												
-25.0												
-26.0												

This page was left blank to help facilitate two-sided printing.

011003.401

NORTHCOAST GEOTECHNICAL SERVICES

P.O. Box H, Eureka, Calif. 95501 • (707) 442-1162

June 25, 1981

Mr. Jack Selvage
Selvage and Heber, Incorporated
2389 Myrtle Ave.
Eureka, CA 95501

JN: 20,034
Preliminary Soils Investigation
Proposed
Industrial Park
City of Blue Lake

Dear Mr. Selvage:

This report presents the results of the captioned investigation. The boundry of the industrial park, as indicated to us, encompasses approximately 63 acres. The project area is located on the southern edge of the City of Blue Lake, and is shown on the Plot Plan, Figure 1. The City of Blue Lake is the owner of the project, which is in its preliminary stages. The industrial park would consist of a system of streets and separate parcels.

SCOPE OF SERVICES

Our proposed scope of services was as follows:

1) Investigate the site by logging backhoe pits to explore the upper soils, by visual reconnaissance, and by reviewing any available maps, data, and subsurface information of the site area. Deep boring(s) would not be made due to limitations in available funding. Fine grained soils (silts, fine sands, or clays) would be sampled and laboratory tested for in-place moisture content and density.

   From one and one-half to two days of backhoe excavation/logging/sampling would be performed. Five to twelve backhoe pits are anticipated.

2) Present the results of our preliminary investigation in a report of four copies containing a Plot Plan; soil logs; a description of site soils; groundwater as encountered, and foundation conditions, comments, and conclusions.

   Our report would also include comments on surficial evidence for earthquake fault features present locally. This evaluation would be based on available information and recent research evidence.

SITE INVESTIGATION

A subsurface investigation of the site was made on June 3 and 4, 1981 by Mr. Bradley, R.C.E. No. 20,541 of this office. Eighteen test pits varying from five to eleven feet in depth were excavated by backhoe. The approximate locations of each pit is presented on the Plot Plan.

Soils encountered were logged in accordance with the Unified Soil Classification System, see Figure 2, and the logs are presented on Figures 3A through 3R. The logs present information at the dates and locations indicated, and it is not warranted that they are representative of subsurface conditions at other locations or times.

Soil samples were taken in sand/silt/clay (fine grained) deposits encountered. These were tested for in-place moisture content, dry density, and unconfined compressive strength. The sampling method and results of these tests are presented on the logs, Figure 3.

Previous land use was investigated by examining aerial photographs dated 1941, 1954, 1958, 1970, and 1974. Site topography bases on maps produced in 1973 or 1974 is presented on the Plot Plan, and appears generally representative of existing site topography.

Relatively deep subsurface information from the log of a well located on the site was also obtained. The approximate location of this well is presented on the Plot Plan.

Geologic information was obtained from published and open file maps, reports, and research papers.

SITE DESCRIPTION

The site comprises a portion of the relatively level flood plain of the Mad River. The river and the Army Corps of Engineer's Flood Control Levee form the southern boundry of the project area. Approximately three-fourths of the area has been used as a lumber mill site, and the remaining area appears native, or undisturbed. The mill site has been graded. The native area exhibits minor relief, and we presume the major site area, prior to development, also exhibited moderately undulating topography.

History of Development, Grading, and Facilities.

Examination of aerial photographs indicates that the first lumber mill was constructed between 1941 and 1954. This installation

included buildings in the southeast corner of the site and a large log pond. The approximate locations of these features are indicated on the Plot Plan. Excavation for the log pond and inferred filling was performed. Our backhoe pit information did not clearly define the depths of the log pond, although the subsurface information obtained, the well log, and the depth of the existing pond indicate that the bottom of the log pond could have been over 10 feet beneath the general surrounding ground surface elevation.

Between 1958 and 1974 the mill was reconstructed, with the buildings located in the central portion of the site, as indicated on the Plot Plan. A major portion of the log pond was filled, leaving, approximately, the remainder which now exists. The subsurface information obtained indicates the ponds were primarily backfilled with native sand, gravel, and silt mixed with varying proportions of wood, bark, and chips. Fills were placed in the site area southwest of the former log pond, and in an area just north of the log pond (vicinity of Hole EH-6). These fills also contain organic materials.

The photos indicate that the project area east of the former log ponds has remained ungraded, with a possible exception of initial land leveling operations. This portion of the site has been used for lumber storage and access. Similarly, the northwest corner of the site (north of Hole EH-7) appears to be undisturbed.

An existing fill slope adjacent to the levee suggests that a filled area exists in the vicinity of Holes EH-3 and EH-15. Subsurface observations support this conclusion. Fill materials were also encountered in Hole EH-4 which was excavated in an area where the present ground surface is relatively low.

Between 1974 and 1981 the mill was abandoned, and various facilities were removed. Two buildings and an open shed are the major structures remaining on-site. Wood, metal, abandoned floor slabs, and a variety of debris exist on-site at various locations. Portions of the site are paved. It should be noted that underground facilities (pipe or septic tanks, for example) may exist in former mill-building areas. One functioning water line exists on-site at the very approximate location indicated on the Plot Plan. Other active underground facilities may also exist.

Subsurface Profiles and Water Levels

The subsurface explorations generally encountered rounded sandy gravels with varying proportions of silt. This material is commonly called river-run gravel. Subordinate layers of silty and sandy soils

were also encountered. Specific descriptions of the materials encountered are presented on the drill hole logs. Except for one low density silt layer encountered in EH-15, density tests indicate competent fine-grained soils. The gravel and sand deposits were logged as medium dense, although loose fill deposits and dense to very dense near-surface zones were also encountered.

River-run gravel fill containing organic material (wood, bark, and chips) was encountered in the former log pond area, and in the area southwest of the former log pond. The organic content varied up to 100 percent (see EH-18). This fill contained large pieces of wood at some locations (logs or large lumber inferred). Such organic material is visible in fill mounds and in fill slopes along the south side of the site. Fills of this type were encountered in Holes EH-2 through EH-6, EH-10, EH-15, and EH-18. One hole excavated in the former pond area, EH-8, did not encounter organic material.

Deposits of cinder material from burner waste were observed in a fill slope adjacent to the levee in the vicinity of Holes EH-3 and EH-15, and were encountered beneath the surface in EH-18.

Groundwater was observed in Holes EH-2 and EH-15 (which are adjacent), Holes EH-8 and EH-18 (which are also adjacent), and EH-4. Other holes advanced to lower elevations encountered no free groundwater. Consequently, no uniform groundwater table can be delineated in the project area within the surficial deposits explored (5 to 11 feet beneath the ground surface). The existing portion of the log pond is wet at its bottom, which is approximately 10 feet beneath the average adjacent ground surface.

The well, logged by a well driller, indicated fill to a depth of 14 feet, overlying gravel and clay soils to a depth of 50 feet. A small water flow (10 gallons a minute) was produced from the 14 to 24 foot depth, and 250 gallons per minute were produced from the 36 to 40 foot depth.

FAULT AND SEISMIC HAZARDS

The project area is located within the Lake Mountain/Mad River Fault Zone (previously designated the Falor-Korbel Fault Zone). The fault zone is comprised of as many as five mapped fault traces that generally trend to the northwest. The faults are considered to be steeply dipping normal faults. The fault zone is approximately

2½ miles wide in the Blue Lake vicinity. The project area is located in the central part of the zone. No fault traces are known to occur within, nor have been projected toward, the project area.

Research by others indicates that some fault traces within the fault zone have experienced activity within recent geologic time (during the past 10,000 years). Seismologists have concluded that the 1954 Eureka earthquake (Magnitude 6.5) was generated by one of the faults within the zone.

DISCUSSION, CONCLUSIONS, FUTURE STUDIES

Project Feasibility

The following geotechnical factors were considered: foundation bearing capacity; foundation settlement, including both consolidation and organic decomposition settlement; liquefaction potential; earthquake faulting; ground water levels; site preparation; and underground obstructions. Flood hazard evaluation is outside our scope of services and slope stability was not considered a problem.

From the preliminary, mostly shallow data obtained, we conclude that isolated zones of saturated, low density fine sand fill soils possibly could liquefy during earthquakes. (These soils are generally unsuitable for structure support for other reasons also, e.g. organic content and potential compressibility, and consequently will not be used for structure support.)

This conclusion is based on comparing soil and groundwater conditions encountered with soil characteristics associated with liquefaction. The deep hole log also did not indicate soil and groundwater conditions associated with liquefaction potential. We recommend an additional study be made to conclusively address liquefaction potential.

Geologic knowledge of the project area is limited. Consequently, it is not possible to ascertain whether fault traces may underlie the project area. As discussed earlier, no evidence of faulting was observed on the site. The risk of fault rupture is considered to be remote and not beyond that which might generally be encountered in a seismically active area. Nevertheless, it should be recognized as an unavoidable low-level hazard.

In the areas containing fill soils which include wood, bark, and chips, foundation settlement problems, foundation bearing capacity

problems, and construction problems associated with large pieces of wood underground will be encountered. Remedial work will be needed for construction in these areas. Based on the information we obtained, the areas containing these soils are the former log pond area, the fill area in the vicinity of Hole EH-6 just north of the former log pond, and the southwest corner of the site bounded by the log pond and flood control levee. To provide stable foundation support, these materials should be removed and replaced with competent materials. Alternatively, deep foundations could be used to support structures. Logs or stumps within the fill may inhibit deep foundation installation. From the information obtained, the depth of these materials may vary up to 10 or more feet beneath the existing ground surface.

Some fill zones (as evidenced by Hole EH-8) may contain no organics, and this material may be utilized as replacement fill, or if evaluated and found adequately competent, it may be left in place. The composition and characteristics of burner cinders should be evaluated for suitability if these materials are considered for use in structural support.

Groundwater will inhibit excavation and construction activities below the groundwater table.

With unsuitable fill soils removed and replaced, the isolated zones of fill soils considered potentially subject to liquefaction would no longer exist. However, as mentioned above, additional liquefaction investigations should be made.

In the site areas east of the former log pond, and at the north west corner of the site, no unsuitable fill deposits were encountered. The area in the northwest corner of the site appears to be native ground, therefore suitable for construction of typical industrial/commercial structures without extensive site preparation. Similarly, the site area east of the former log pond appears to be suitable for development. However, the existence of unsuitable fill zones or underground facilities (septic tanks) cannot be entirely discounted.

In addition to earthwork, site preparation would include removal of existing facilities, floor slabs, and debris (wood, unsuitable fill, metal scrap, etc.).

Future Studies

A more comprehensive geotechnical investigation could be performed which would:

Delineate the depth and extent of unsuitable fill soils on site, and provide recommendations for remedial work in these areas.

Provide a detailed analysis of liquefaction potential. Deep borings would be required, in which water level and soil density determinations would be made.

Additionally explore the two apparently competent site areas.

Provide specific design criteria for typical commercial/industrial construction, and general site grading recommendations. Unusually heavy or critical structures would have to be evaluated individually, and some lot by lot investigation would probably be required where variable soil conditions exist or abandoned undergound facilities are suspected.

CLOSURE

We trust this provides the preliminary information you require at this time. If we can be of further service, please let us know.

The following Figures are attached and complete this report:

Figure 1:	Plot Plan
Figure 2:	Unified Soil Classification System
Figures 3A through 3R:	Subsurface Exploration Logs

Very truly yours,

NORTHCOAST GEOTECHNICAL SERVICES

David R. Bradley

David R. Bradley
R.C.E. N. 20,541

Roland Johnson
Geological Engineer

(4 copies submitted)

DRB:wo

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EB-1

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/3/81 | LOGGED BY: DRB

HOLE ELEV: 80 | DATUM Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						0	GRAVEL, rounded, sandy, slightly silty, very dense, damp, dark brown to 4", then gray below (GW) (river-run, compacted surface)
						1	
						2	SILT, fine sandy, stiff, damp, gray (ML)
	3390	19.5	101	13/6"	II		GRAVEL, rounded, sandy, slightly silty, medium dense, moist, gray (GW) (river-run)
						3	
						4	
						5	
						6	
						7	
						8	Bottom at 8 feet. No free groundwater encountered. Backfilled following excavation.
						9	
						10	

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED | LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH-2

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 81 DATUM: Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 lb. ~~Hand Forced Hammer~~

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	GRAVEL, BARK AND CHIPS. The gravel is rounded, sandy, slightly silty, loose, moist, gray (river-run); the bark and chips are brown. 50% gravel, 50% bark and chips (GW and PT) (fill)
						2	
							NOTE BREAK IN SCALE
						4	
						5	with inclusions of fine sandy silt
						6	Hit log or stump, made adjacent excavation.
						7	SILT, clayey, fine sandy, with 30% bark, medium stiff, wet, gray (SC with PT) (old pond bottom?) (fill?)
						8	
		26.4	103	?	II	9	
						10	
							GRAVEL, sandy, medium dense, wet, gray, (GW) (river-run)
						11	Bottom at 11 feet. Backfilled following excavation.

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/61

FIGURE 3B

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 3

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 82 | DATUM Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	GRAVEL and BARK. Gravel is rounded, sandy, silty, loose, dry, gray (GM) and bark is brown. 50% gravel, 50% bark (fill
						2	Including metal scrap.
						3	
						4	Hit large piece of wood.
						5	
						6	
						7	
						8	
		LOST		10/12"		9	SAND, fine, silty, with rounded gravels loose, wet, gray (SM)
						10	Bottom at 9½ feet. No free water encountered. Backfilled following excavation.

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED | LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 4

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 75 | DATUM: Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	GRAVEL with cobbles to 8" across, rounded, silty, sandy, very dense, moist, gray (GM) (river-run) (upper 18 inches compacted) (fill)
							medium dense
						2	Wet, free water at this elevation, isolated water layer
						3	
						4	
						5	With 20% wood
						6	Without wood; bottom of fill?
						7	
						8	
						9	
						10	Bottom at 10 feet. Backfilled following excavation.

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED | LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NCGS NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3D

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 5

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 78 | DATUM: Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	80% BARK, soft, moist, brown (PT) and 20% GRAVEL, sandy, silty, loose, moist, gray (GM) (fill)
						2	50% BARK and 50% GRAVEL
						3	
						4	
						5	
		24.3	103	8/6"	II	6	SILT, clayey, stiff, wet, yellowish-brown and gray, (ML) (fill)
						7	SAND, fine, silty, medium dense, wet, gray (SM) (fill)
						8	
	620	15.9	108	9/6"	II	9	
						10	Bottom at 10 feet. Backfilled following excavation.

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED | LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NCG NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3E

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 6

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 82 | DATUM Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	BARK and GRAVEL. 50% each approximately. Gravel is rounded, sandy, silty, loose, moist, brownish-gray (GM). Bark is moist, soft; brown. (PT) (fill)
						2	
						3	
						4	
						5	Bottom at 5 feet. Practical backhoe refusal on large pieces of wood. No free water encountered.
						6	
						7	
						8	
						9	
						10	

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NCG NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3F

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 7

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 74 | DATUM Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA				BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)				UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	GRAVEL, rounded, sandy, silty, to 4 inch diameter, medium dense, damp, gray (GM) (river-run).
						2	
						3	
						4	
						5	
						6	
						7	Moist Caving slightly
						8	Bottom at 8 feet. No free water encountered. Backfilled following excavation.
						9	
						10	

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | ☒ DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NCG NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 8

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 80 | DATUM Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	GRAVEL, rounded, silty, sandy, medium dense, moist, gray (GM) (river-run) 50% bark in upper six inches (probably fill; hole is located in former pond area)
						2	
						3	
						4	
						5	
						6	Wet ▽
						7	Caving
						8	Bottom. Backfilled following excavation.
						9	
						10	

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NCGS NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 9

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 74 | DATUM: Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	GRAVEL, rounded, sandy, slightly silty (near gravelly coarse sand), loose, moist, gray (GW) (river-run)
						2	
						3	
						4	
						5	
						6	Bottom at 6'. No free groundwater encountered. Backfilled following excavation.
						7	
						8	
						9	
						10	

KEY

▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NCGS NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 31

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 10

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 80 | DATUM: Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM — SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	GRAVEL, sandy, silty, rounded, medium dense, damp, gray (GM) river-run with 10% bark and wood (fill)
						2	50% bark; 50% gravel.
						3	SILT, fine sandy, medium stiff, moist, gray (ML)
		15.8	105	8/6"	II	4	
						5	GRAVEL, rounded, sandy, medium dense, damp, gray (GW) (river-run)
						6	
						7	
						8	
						9	Bottom at 9 feet. No free groundwater encountered.
						10	

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NGS NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3 J

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 11

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 82 | DATUM: Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA						DEPTH (FEET)	SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)		UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						0	
						1	SILT, gravelly, sandy, stiff, moist, brown (ML) (near gravel)
						2	Medium stiff
	1060	12.7	107	12/6"		3	
						4	GRAVEL, rounded, sandy, silty, medium dense, moist, brownish-gray (GM) (river-run)
						5	SAND, with rounded gravel, silty, medium dense, brownish-gray (SM)
						6	With pieces of wood from 5 to 6 feet
						7	Caving slightly.
						8	Bottom at 8 feet. No free groundwater encountered. Backfilled following excavation.
						9	
						10	

KEY: ⏚ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | ☒ DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NGS NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3 K

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 12

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 82 | DATUM Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						0	GRAVEL, rounded, sandy, silty, with some "red-rock" angular shale gravel, very dense, damp, gray and reddish-brown mixed (GW) (No "red-rock" below the 1/2 foot depth) (fill to 1/2 foot)
						1	
						2	Medium dense
	1450	18.0	104	6/6"	II	3	SAND, fine, silty, medium dense, moist, gray, (SM)
						4	SAND, fine, gravelly, medium dense, moist, brownish-gray (SW)
						5	
						6	Near gravel
						7	
						8	Bottom at 8 feet. No free groundwater encountered. Backfilled following excavation.
						9	
						10	

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NGS NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 13

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 81 | DATUM Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						0	1½" A.C. PAVING
						1	GRAVEL, rounded, sandy, silty, dense, moist (GM) (river-run) (fill)
	360	17.4	99	6/6"	II	2	SAND, fine, silty, dense, damp, light brown (SM)
						3	GRAVEL, rounded, sandy, silty, medium dense, moist, brown, (GM) (river-run)
						4	
						5	
						6	
						7	
						8	
						9	Bottom at 9 feet. No free groundwater encountered. Backfilled following excavation.
						10	

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NCG NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH-14

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 81 | DATUM: Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	GRAVEL, rounded, sandy, silty, dense in upper 2' medium dense below, damp, grayish-brown (GM) (river-run)
						2	SAND, fine, silty, dense, moist, brown (SM)
						3	GRAVEL, rounded, sandy, silty, medium dense, damp, grayish-brown (GM) (river-run)
						4	
						5	
						6	Bottom at 6 feet. No free groundwater encountered. Backfilled following excavation.
						7	
						8	
						9	
						10	

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

AGS NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 15

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 80 | DATUM: Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
		-	-			1	GRAVEL, rounded, sandy, silty, medium dense, moist, grayish-brown (GM) (river-run) (layer of wood and bark at the surface) (fill)
						2	
						3	SILT, fine sandy, soft, moist, brownish-gray (ML) (fill?)
	840	25.9	85	2/6"		4	
						5	Gray With 30% wood
		25.4	87	3/6"		6	
						7	GRAVEL, rounded, sandy, silty, medium dense, wet, grayish-brown (GM)
						8	No free water, however, soil particles are glistening
						9	Probable H_2O level about 9 feet Bottom at 9 feet. Backfilled following excavation.
						10	

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED | LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NCGS NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 16

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 82 | DATUM Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DAY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	GRAVEL, rounded, sandy, silty, dense, moist, gray (GM) (river-run) (fill)
						2	piece of wood (cut lumber)
	2700	17.6	108	18/6"	II	3	SAND, fine, silty (near sandy silt) dense, moist, gray (fill?)
						4	GRAVEL, rounded, sandy, silty, medium dense, moist, gray (GM), (river-run) (fill to 6'?)
						5	
						6	Grayish-brown
						7	
						8	
						9	Bottom at 9 feet. No free groundwater encountered. Backfilled following excavation.
						10	

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NGS NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3 P

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH- 17

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 81 | DATUM: Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						0	
						1	GRAVEL, with 30% cobbles rounded, sandy, silty, very dense, damp, grayish-brown (GM) (fill?)
						2	
	6270	13.3	115	25/6"		3	SILT, fine sandy, very stiff, damp, gray, (ML) (fill?)
	230	9.7	91	3/6"		4	SAND, fine, silty, with 30% rounded gravels, medium dense, moist, brown (fill?)
						5	
		LOST		12/6"		6	
						7	
						8	
						9	Bottom at 9 feet. No free groundwater encountered. Backfilled following excavation.
						10	

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED

LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

NCGS NORTHCOAST GEOTECHNICAL SERVICES

FE-2 2/81

FIGURE 3

SUBSURFACE EXPLORATION LOG

PROJECT NAME: Blue Lake Industrial Park | PROJECT NUMBER: 20,034 | HOLE NUMBER: EH-18

HOLE SIZE: 1½ x 7 feet | EXCAVATION METHOD: Backhoe | DRILLING DATE(S): 6/4/81 | LOGGED BY: DRB

HOLE ELEV: 84 | DATUM: Plot Plan | SAMPLER & DRIVE: 2" O.D. Shelby Tube; 18 pound hand forced Hammer.

LABORATORY DATA							SOIL CLASSIFICATION
OTHER TESTS (Key below)	UNCONFINED COMPRESSION (PSF)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	BLOWS PER FOOT	SAMPLES (Key below)	DEPTH (FEET)	UNIFIED SOIL CLASSIFICATION SYSTEM—SEE FIGURE 2 FIELD CLASSIFICATION AS MODIFIED BY TEST RESULTS TEXTURE, CONSISTENCY, MOISTURE, COLOR, SYMBOL, REMARKS
						1	GRAVEL, rounded, with cobbles to 10", sandy, silty, medium dense (GM) (river-run) (fill)
						2	BARK, soft, moist, brown (PT) (fill)
						3	SAND, gravelly, silty, medium dense, damp, black (SM) (fill) (light in weight, mixture of burner cinders and river-run gravel)
	—	24.2	79	22/6"		4	wet
						5	
						6	
						7	
						8	BARK, soft, wet, dark brown (PT) (fill)
						9	SAND, gravelly, silty, medium dense, damp, black, (SM) (fill) (burner cinders and river-run gravel)
						10	Bottom at 9½ feet. Backfilled following excavation.

KEY: ▽ WATER LEVEL | I SPLIT SPOON | II SHELBY TUBE | X DISTURBED

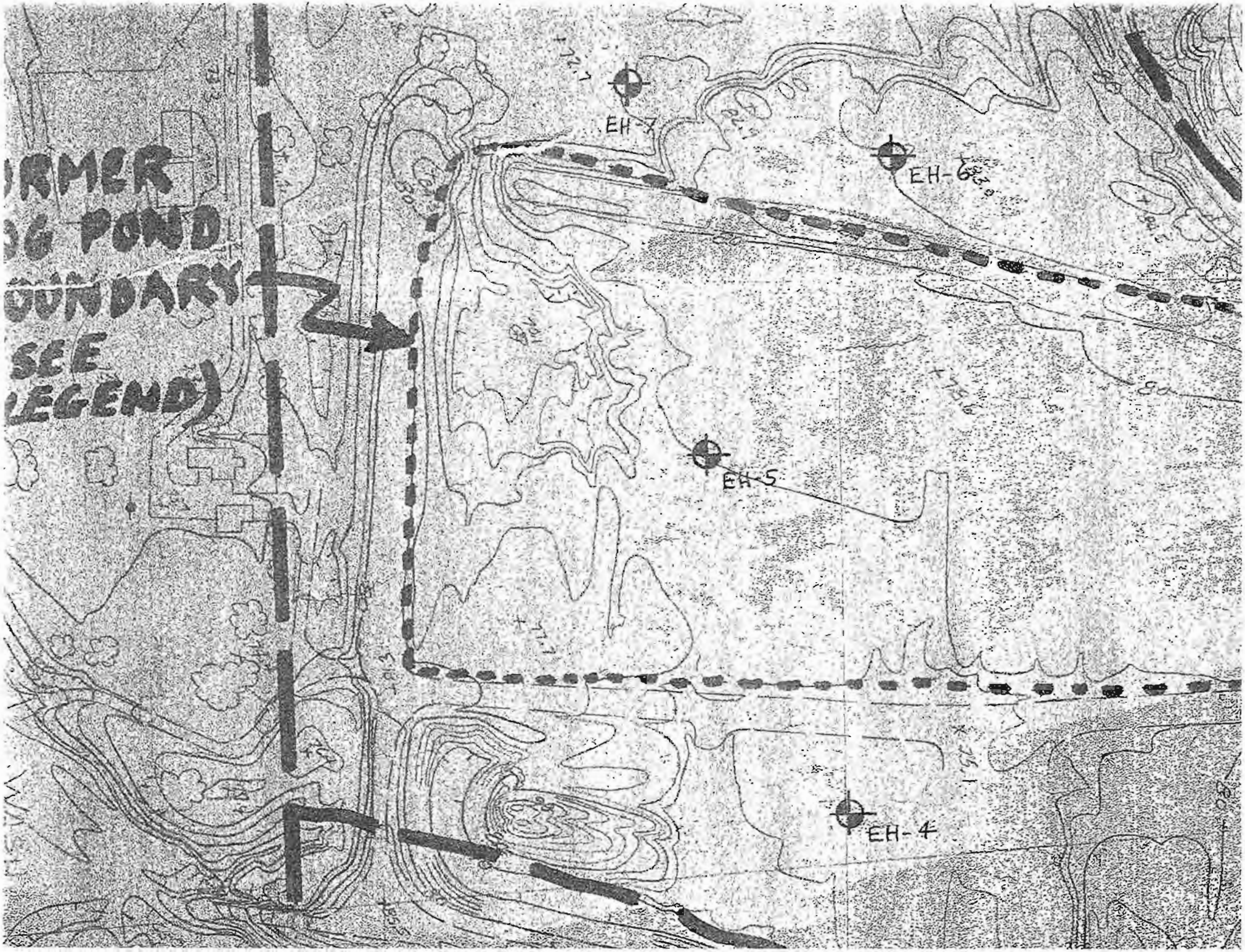
LL LIQUID LIMIT | PI PLASTICITY INDEX | %F PERCENT FINES PASSING U.S. NO. 200 SIEVE

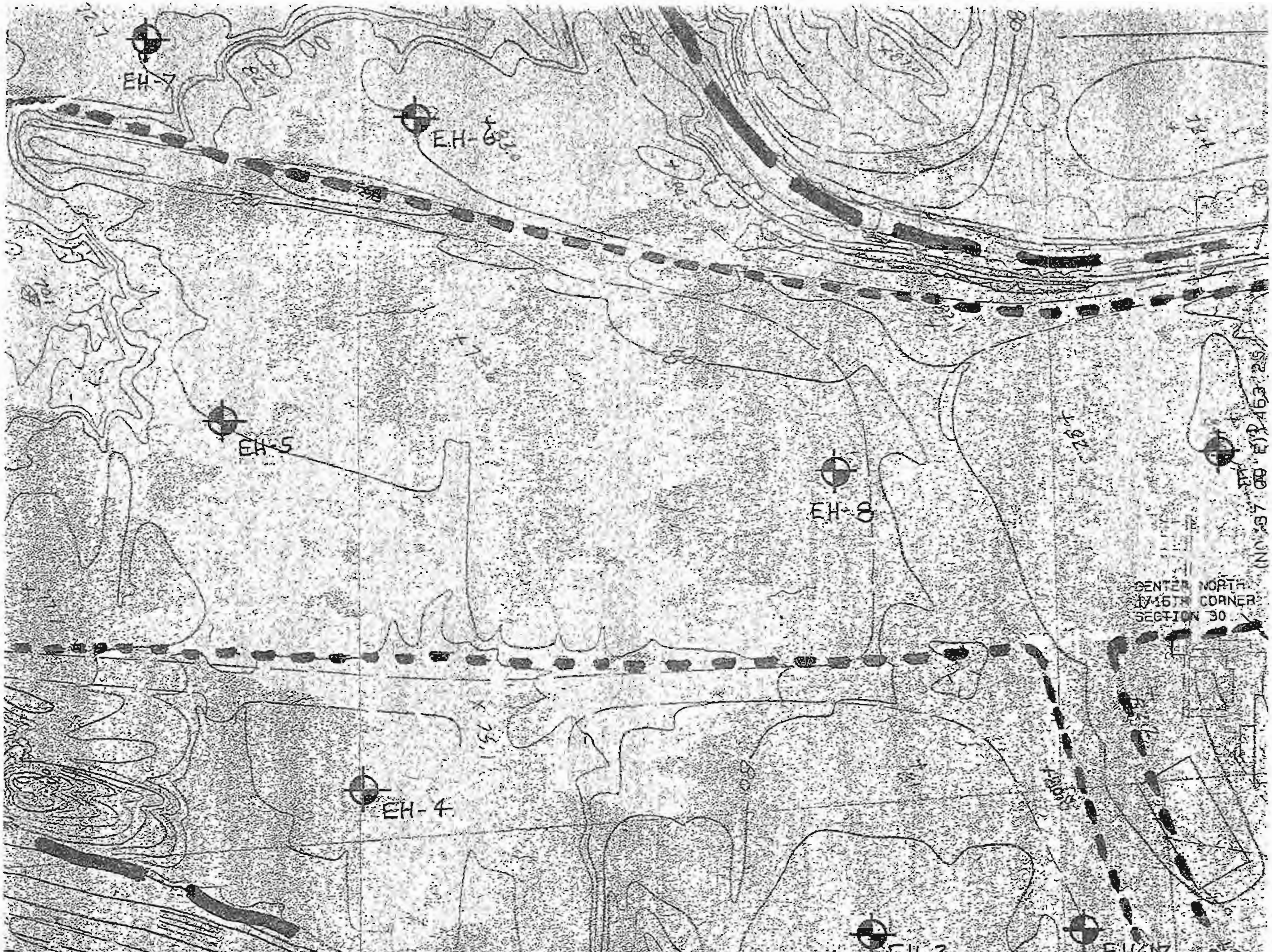
NCGS NORTHCOAST GEOTECHNICAL SERVICES

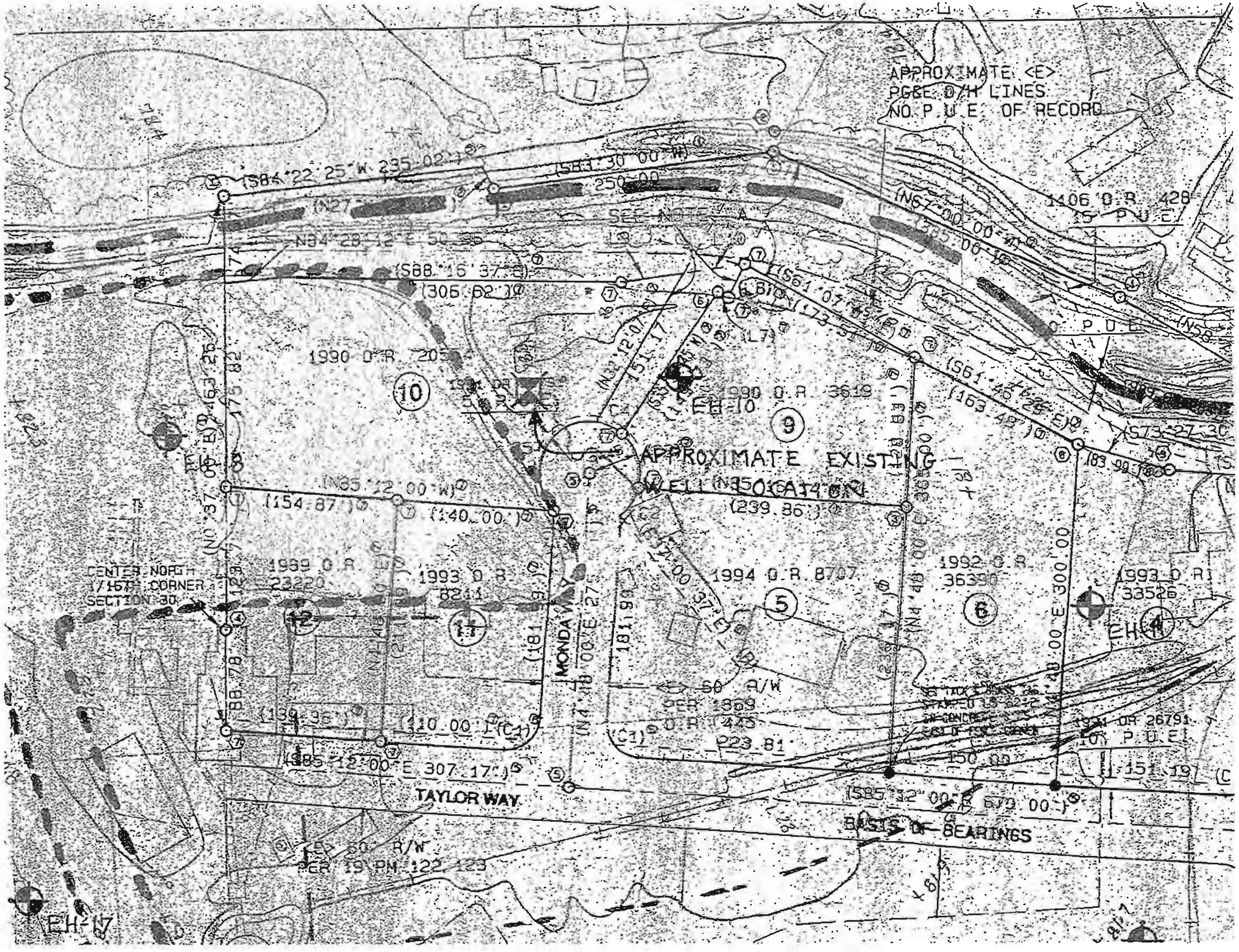
FE-2 2/81

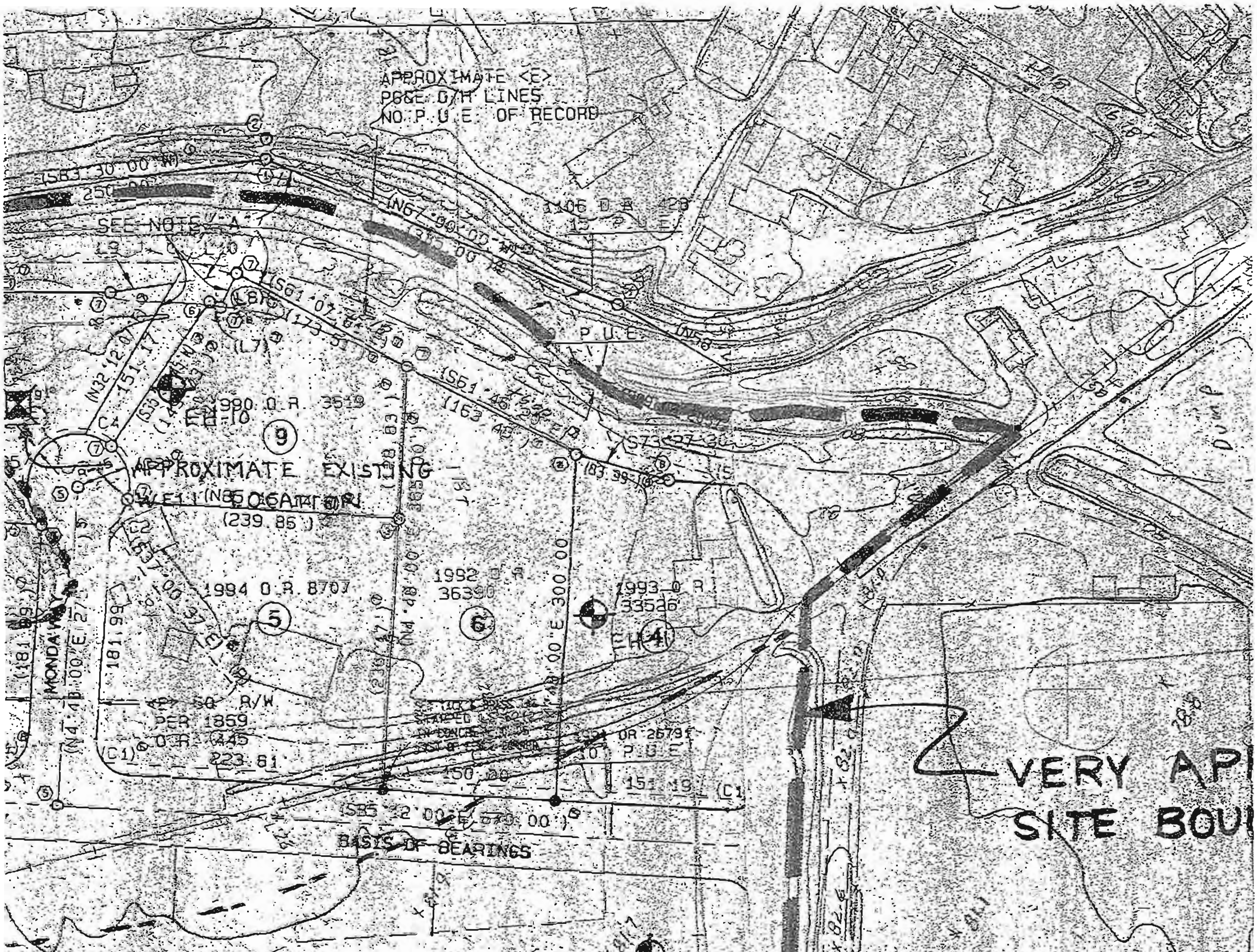
FIGURE 3

This page was left blank to help facilitate two-sided printing.


EH-7
EH-6
EH-5
EH-4


EH-7
EH-6
EH-5
EH-8
EH-4
EH-3
EH-17
CENTER NORTH
1/16TH CORNER
SECTION 30


APPROXIMATE <E>
PG&E O/H LINES
NO P.U.E. OF RECORD
(S84 22 25 W 235.02)
(S83 30 00 W)
250.00
1406 O.R. 428
15' P.U.E.
SEE NOTE A
N34 28 12 E 50.35
(S88 15 37 E)
(305.62)
(S61 07 45 E)
(173.31)
(S61 46 25 E)
(163.48)
(S73 27 30
1990 O.R. 20574
10
1990 O.R. 3619
EH-10
9
APPROXIMATE EXISTING
WELL LOCATION
(N85 12 00 W)
(154.87)
(140.00)
(239.86)
183.99
CENTER NORTH
1/16TH CORNER
SECTION 30
1989 O.R.
23220
1993 O.R.
8211
12
11
1994 O.R. 8707
5
1992 O.R.
36390
6
1993 O.R.
33526
EH-4
MONDA WAY
181.99
50' R/W
PER 1869
O.R. 445
223.81
1991 OR 26791
10' P.U.E.
150.00
(139.35)
(110.00)
(C1)
(S85 12 00 E 307.17)
TAYLOR WAY
(S85 12 00 E 670.00)
151.19
BASIS OF BEARINGS
<E> 50' R/W
PER 19 PM 122-123
EH-17
EH-8


APPROXIMATE <E>
PG&E O/H LINES
NO P.U.E. OF RECORD
SEE NOTE A
APPROXIMATE EXISTING
WELL LOCATION
1980 O.R. 3519
1994 O.R. 8707
1992 O.R.
36390
1993 O.R.
33526
MONDA WAY
BASIS OF BEARINGS
P.U.E.
VERY AP
SITE BOU

BLUE LAKE RANCHERIA

CHARTIN RD.

WEST END RD.

EB-10

APPROXIMATE EXISTIN
WELL LOCATION

VERY APPROXIMATE
SITE BOUNDARY

THIS PORTION (RIVER BED)
NOT A PART

N

NGS

City of Blue Lake
Industrial Park

PLOT PLAN FIGURE 1

APPROXIMATE PARCELS FOR PHASE I


INQUIRY #: 2023992.5
YEAR: 1954
= 555'
N

Appendix D

Environmental Data Resources, Inc. Report

Blue Lake Business Park
Taylor Way
Arcata, CA 95521

Inquiry Number: 3040347.1s
April 13, 2011

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

TAYLOR WAY
ARCATA, CA 95521

COORDINATES

Latitude (North):	40.878800 - 40° 52' 43.7''
Longitude (West):	123.994300 - 123° 59' 39.5''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	416222.0
UTM Y (Meters):	4525567.0
Elevation:	83 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40123-H8 BLUE LAKE, CA
Most Recent Revision:	1979
South Map:	40123-G8 KORBEL, CA
Most Recent Revision:	1979
Southwest Map:	40124-G1 ARCATA SOUTH, CA
Most Recent Revision:	1972
West Map:	40124-H1 ARCATA NORTH, CA
Most Recent Revision:	1972

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State- and tribal - equivalent CERCLIS

ENVIROSTOR ---------- EnviroStor Database

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

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST ---------- Active UST Facilities

INDIAN UST ---- Underground Storage Tanks on Indian Land
FEMA UST ---- Underground Storage Tank Listing

State and tribal voluntary cleanup sites

VCP ---- Voluntary Cleanup Program Properties
INDIAN VCP ---- Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---- Open Dump Inventory
WMUDS/SWAT ---- Waste Management Unit Database
SWRCY ---- Recycler Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---- Clandestine Drug Labs
HIST Cal-Sites ---- Historical Calsites Database
SCH ---- School Property Evaluation Program
Toxic Pits ---- Toxic Pits Cleanup Act Sites
CDL ---- Clandestine Drug Labs
US HIST CDL ---- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CA FID UST ---- Facility Inventory Database

Local Land Records

LIENS 2 ---- CERCLA Lien Information
LUCIS ---- Land Use Control Information System
LIENS ---- Environmental Liens Listing
DEED ---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CHMIRS ---- California Hazardous Material Incident Report System
LDS ---- Land Disposal Sites Listing
MCS ---- Military Cleanup Sites Listing

Other Ascertainable Records

RCRA-NonGen ---- RCRA - Non Generators
DOT OPS ---- Incident and Accident Data

EXECUTIVE SUMMARY

DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
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
CA BOND EXP. PLAN	Bond Expenditure Plan
WDS	Waste Discharge System
NPDES	NPDES Permits Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
Notify 65	Proposition 65 Records
DRYCLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
FINANCIAL ASSURANCE	Financial Assurance Information Listing
PCB TRANSFORMER	PCB Transformer Registration Database
PROC	Certified Processors Database
MWMP	Medical Waste Management Program Listing
COAL ASH DOE	Sleam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

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.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: 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.

A review of the RCRA-LQG list, as provided by EDR, and dated 02/17/2010 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALGON CARBON CORPORATION	***501 HATCHERY ROAD***	***ESE 1/8 - 1/4 (0.127 mi.)***	***A6***	***14***

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/17/2010 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MICKS TRACTOR RPR	***170 HATCHERY RD***	***ENE 1/8 - 1/4 (0.250 mi.)***	***B8***	***20***

State and tribal leaking storage tank lists

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 02/03/2011 has revealed that there are 7 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BLUE LAKE PUBLIC WORKS YARD Status: Completed - Case Closed	199 TAYLOR WAY	SSW 0 - 1/8 (0.005 mi.)	1	7
LUNDBLADE PROPERTY Status: Completed - Case Closed	***441 RAILROAD AVENUE***	***ENE 1/8 - 1/4 (0.240 mi.)***	***B7***	***18***
JACKSONS GARAGE Status: Open - Verification Monitoring	***630 RAILROAD AVENUE***	***E 1/4 - 1/2 (0.262 mi.)***	***9***	***21***
BIG OIL & TIRE COMPANY OFFICE Status: Open - Site Assessment	211 RAILROAD AVENUE	NE 1/4 - 1/2 (0.263 mi.)	10	22
BLUE LAKE BELTING AND LEATHER Status: Open - Verification Monitoring	***411 RAILROAD AVENUE***	***ENE 1/4 - 1/2 (0.312 mi.)***	***12***	***23***

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEVRON #9-5504	FOURTH STREET 698	ENE 1/4 - 1/2 (0.404 mi.)	15	25

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLUE LAKE MARKET Status: Open - Site Assessment	410 RAILROAD AVENUE	N 1/4 - 1/2 (0.354 mi.)	C14	24

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 02/03/2011 has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARSH COMMONS Facility Status: Completed - Case Closed	101 G STREET, SOUTH	NE 1/4 - 1/2 (0.273 mi.)	11	22

State and tribal registered storage tank lists

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ULTRAPOWER 3	***200 TAYLOR WAY***	***W 0 - 1/8 (0.120 mi.)***	***2***	***7***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PUBLIC WORKS YARD	401 1/2 HATCHERY RD.	E 1/8 - 1/4 (0.127 mi.)	A5	14

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PUBLIC WORKS YARD	401 HATCHERY RD	E 1/8 - 1/4 (0.127 mi.)	A4	13
LUNDBLADE PROPERTY	***441 RAILROAD AVENUE***	***ENE 1/8 - 1/4 (0.240 mi.)***	***B7***	***18***

Other Ascertainable Records

HIST 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 [CALSITES].

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

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LUNDBLADE PROPERTY	***441 RAILROAD AVENUE***	***ENE 1/8 - 1/4 (0.240 mi.)***	***B7***	***18***
JACKSONS GARAGE	***630 RAILROAD AVENUE***	***E 1/4 - 1/2 (0.262 mi.)***	***9***	***21***
BLUE LAKE BELTING AND LEATHER	***411 RAILROAD AVENUE***	***ENE 1/4 - 1/2 (0.312 mi.)***	***12***	***23***

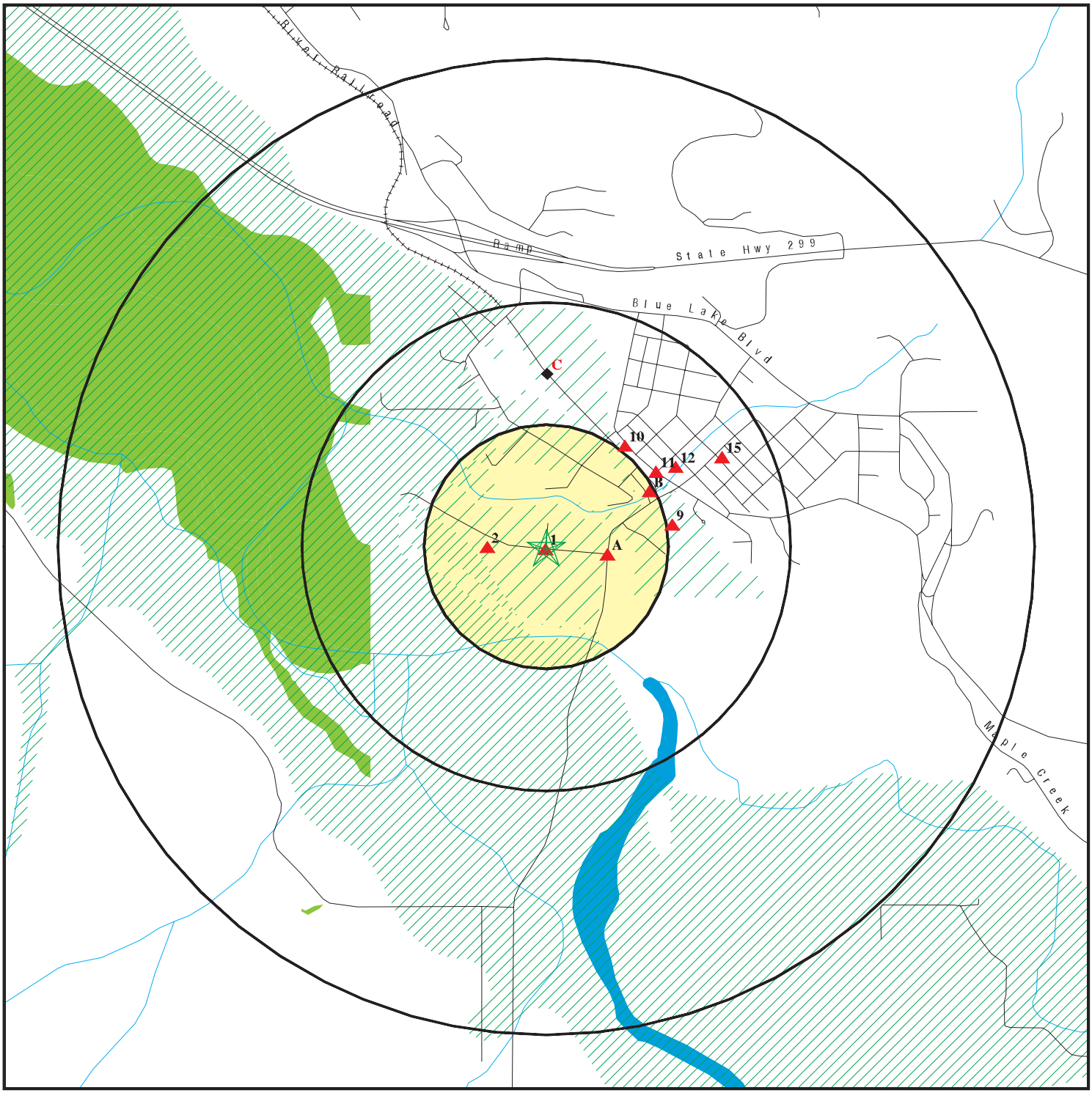
Lower Elevation	Address	Direction / Distance	Map ID	Page
BLUE LAKE MARKET	***410 RAILROAD AVE***	***N 1/4 - 1/2 (0.354 mi.)***	***C13***	***23***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 35 records.

Site Name	Database(s)
REDWOOD EMPIRE AGGREGATES	HIST CORTESE
BRACUT LUMBER COMPANY	FID,SWEEPS UST
BRACUT INTERNATIONAL CORP	CUPA FRESNO
AT & T - TE004 BLUE LAKE	CUPA FRESNO
INDEPENDENT VOLVO SERVICE	CUPA FRESNO
BO & T - BLUE LAKE 76	CUPA FRESNO
CITY OF BLUE LAKE - WASTEWATER PLA	CUPA FRESNO
GRANITE CONSTRUCTION CO - BLUE LAK	CUPA FRESNO
MAD RIVER BREWING CO INC	CUPA FRESNO
MCINTOSH LUMBER CO INC	CERCLIS-NFRAP
HUMBOLDT CIVIC CENTER	CERCLIS-NFRAP
REDWOOD EMPIRE AGGREGATES	LUST SAN MATEO
HUMBOLDT STATE UNIV-GIST HALL	LUST SAN MATEO
JOE COSTA TRUCKING	HIST UST
MOBIL MINI MART	HIST UST
DON L. ADDISON TRUCKING	HIST UST
GLENDALE MOBIL	HIST UST
ZANONE RANCH	HIST UST
MAPLE CREEK SCHOOL	HIST UST
DBA THE MILL YARD	AST
CALIFORNIA REDWOOD ACQUISITION CO	RCRA-SQG
BLUE LAKE RANCHERIA 5X27-2	FINDS
BLUE LAKE RANCHERIA 5W32-8	FINDS
BLUE LAKE RANCHERIA 5W32-9	FINDS
BLUE LAKE RANCHERIA 5W32-10	FINDS
BLUE LAKE RANCHERIA 5W32-7	FINDS
BLUE LAKE RANCHERIA 5D2-2	FINDS
BLUE LAKE RANCHERIA 5W32-4	FINDS
BLUE LAKE RANCHERIA 5W32-6	FINDS
BLUE LAKE SDW1	FINDS
BLUE LAKE SDW2	FINDS
CITY OF BLUE LAKE	FINDS
BLUE LAKE POWER	FINDS
CALGON CARBON CORP - BLUE LAKE	TSCA
HUMBOLDT COUNTY AIRPORT	ENVIROSTOR

OVERVIEW MAP - 3040347.1s



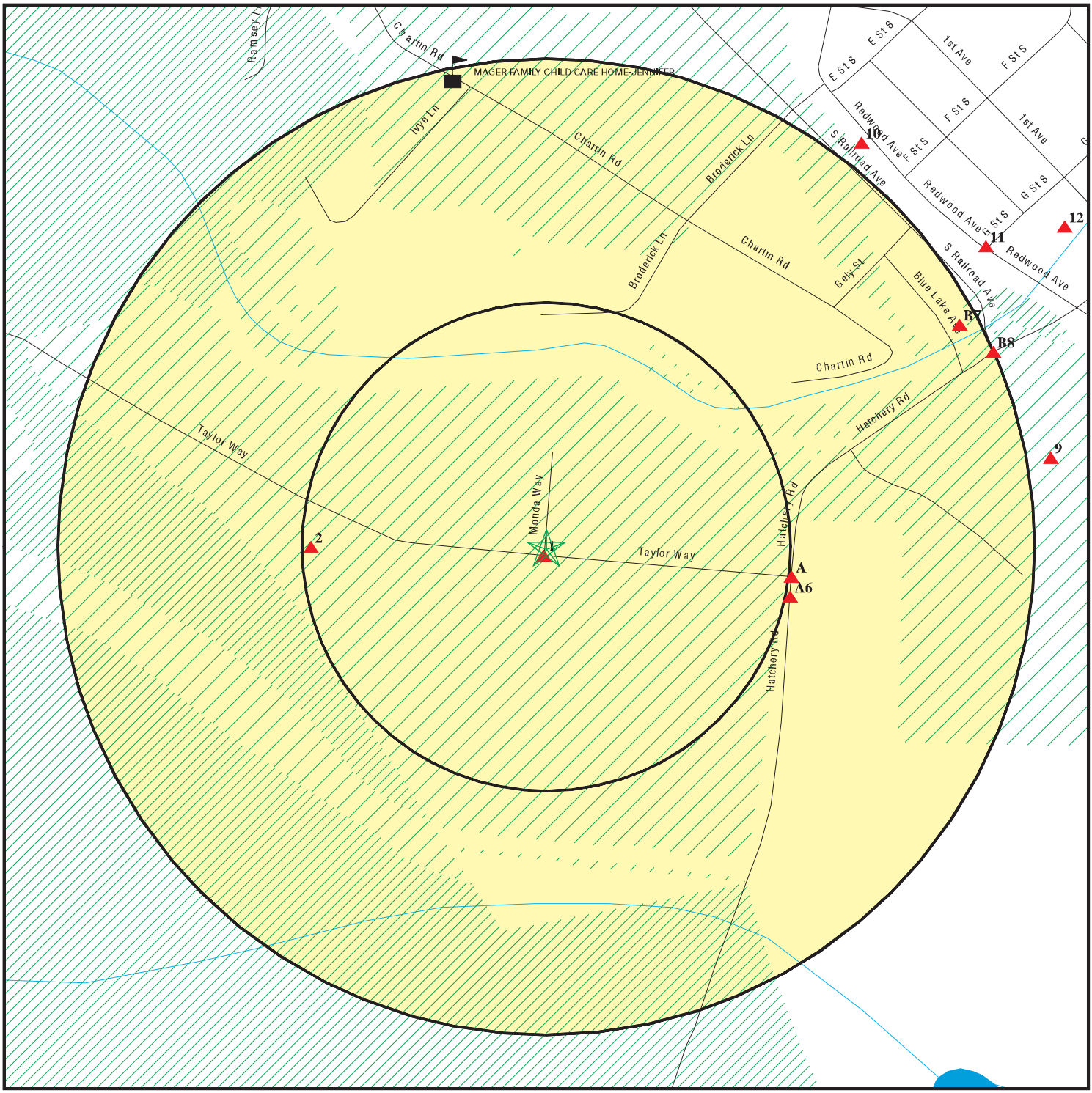
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood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

0 1/4 1/2 1 Miles

N

SITE NAME: Blue Lake Business Park	CLIENT: SHN Consulting Engineers
ADDRESS: Taylor Way Arcata CA 95521	CONTACT: Diana Ward
LAT/LONG: 40.8788 / 123.9943	INQUIRY #: 3040347.1s DATE: April 13, 2011 3:22 pm

DETAIL MAP - 3040347.1s



- 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

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

N

SITE NAME:	Blue Lake Business Park	CLIENT:	SHN Consulting Engineers
ADDRESS:	Taylor Way Arcata CA 95521	CONTACT:	Diana Ward
LAT/LONG:	40.8788 / 123.9943	INQUIRY #:	3040347.1s
		DATE:	April 13, 2011 3:23 pm

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
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS		0.500	0	0	0	NR	NR	0
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS		1.000	0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG		0.250	0	1	NR	NR	NR	1
RCRA-SQG		0.250	0	1	NR	NR	NR	1
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE		1.000	0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR		1.000	0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		0.500	0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST		0.500	1	1	5	NR	NR	7
SLIC		0.500	0	0	1	NR	NR	1

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
INDIAN LUST		0.500	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST		0.250	0	0	NR	NR	NR	0
AST		0.250	1	0	NR	NR	NR	1
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP		0.500	0	0	0	NR	NR	0
INDIAN VCP		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
HAULERS		TP	NR	NR	NR	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
HIST Cal-Sites		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	1	NR	NR	NR	1
SWEEPS UST		0.250	0	2	NR	NR	NR	2
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
LIENS		TP	NR	NR	NR	NR	NR	0
DEED		0.500	0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
CHMIRS		TP	NR	NR	NR	NR	NR	0
LDS		TP	NR	NR	NR	NR	NR	0

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
MCS		TP	NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.250	0	0	NR	NR	NR	0
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN		1.000	0	0	0	0	NR	0
WDS		TP	NR	NR	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
HIST CORTESE		0.500	0	1	3	NR	NR	4
Notify 65		1.000	0	0	0	0	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
HAZNET		TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
HWP		1.000	0	0	0	0	NR	0
HWT		0.250	0	0	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
PROC		0.500	0	0	0	NR	NR	0
MWMP		0.250	0	0	NR	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
SSW
< 1/8
0.005 mi.
25 ft.

BLUE LAKE PUBLIC WORKS YARD — **LUST** — **S105051013**
199 TAYLOR WAY — **N/A**
BLUE LAKE, CA 95525

Relative:
Equal

Actual:
83 ft.

LUST:

Region:	STATE
Global Id:	T0602300044
Latitude:	40.8788427696362
Longitude:	-123.993780612946
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	1993-05-19 00:00:00
Lead Agency:	HUMBOLDT COUNTY LOP
Case Worker:	MAV
Local Agency:	HUMBOLDT COUNTY LOP
RB Case Number:	1THU050
LOC Case Number:	12050
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

2
West
< 1/8
0.120 mi.
636 ft.

ULTRAPOWER 3 — **WDS** — **S103340829**
200 TAYLOR WAY — **NPDES** — **N/A**
BLUE LAKE, CA 94425 — **AST**
CUPA Listings
HAZNET
EMI

Relative:
Equal

Actual:
83 ft.

CA WDS:

Facility ID:	1 12I010882
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:	1
Facility Telephone:	Not reported
Facility Contact:	BERT STONE
Agency Name:	POWER INDUSTRY CONSULTANTS INC
Agency Address:	1165 NORTHCHASE PARKWAY 4TH FL
Agency City,St,Zip:	MARIETTA 30067
Agency Contact:	TOM PAUL
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	4911
SIC Code 2:	Not reported
Primary Waste:	Stormwater Runoff
Primary Waste Type:	Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0

ULTRAPOWER 3 (Continued) **S103340829**

Baseline Flow:	0
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category 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.

NPDES:

Npdes Number:	CAS00001
Facility Status:	Active
Agency Id:	N/A
Region:	1
Regulatory Measure Id:	Not Availa
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not Availa
WDID:	1 12I021571
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	N/A
Effective Date Of Regulatory Measure:	5/22/2008 2:27:00 PM
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Renewable Energy Providers
Discharge Address:	1615 Continental St Ste 100
Discharge City:	Redding
Discharge State:	Ca
Discharge Zip:	96001

AST:

Owner:	Blue Lake Power LLC
Total Gallons:	15,425
Certified Unified Program Agencies:	Humboldt

CUPA HUMBOLDT:

Local Site Id:	000245
Region:	HUMBOLDT
Cross Street:	Not reported
Program/Element:	APSA Engineered Facility
Permit Status:	Fee Exempt
Latitude:	40.877300787
Longitude:	-123.994948979

Local Site Id:	000245
Region:	HUMBOLDT
Cross Street:	Not reported
Program/Element:	Hazardous Materials Business Plan
Permit Status:	Active

ULTRAPOWER 3 (Continued) **S103340829**

Latitude: 40.877300787
Longitude: -123.994948979

Local Site Id: 000245
Region: HUMBOLDT
Cross Street: Not reported
Program/Element: Haz Waste Generator (SQG) Annual Fee
Permit Status: Fee Exempt
Latitude: 40.877300787
Longitude: -123.994948979

HAZNET:
Gepaid: CAL000114750
Contact: SONNY DAVI/MAINT MANAGER
Telephone: 7076685631
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 1158
Mailing City,St,Zip: BLUE LAKE, CA 955251158
Gen County: Humboldt
TSD EPA ID: CAT080033681
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: Not reported
Tons: 0.05
Facility County: Not reported

Gepaid: CAL000114750
Contact: NORTH AMERICAN POWER GROUP LTD
Telephone: 3037968600
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 1158
Mailing City,St,Zip: BLUE LAKE, CA 955251158
Gen County: Humboldt
TSD EPA ID: CAT080011059
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: D99
Tons: .9172
Facility County: Humboldt

Gepaid: CAL000114750
Contact: SONNY DAVI/MAINT MANAGER
Telephone: 7076685631
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 1158
Mailing City,St,Zip: BLUE LAKE, CA 955251158
Gen County: Humboldt
TSD EPA ID: CAD097030993
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: H14
Tons: 0.1
Facility County: Humboldt

ULTRAPOWER 3 (Continued) **S103340829**

Gepaid: CAL000114750
Contact: NORTH AMERICAN POWER GROUP LTD
Telephone: 3037968600
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 1158
Mailing City,St,Zip: BLUE LAKE, CA 955251158
Gen County: Humboldt
TSD EPA ID: CAD000088252
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: H01
Tons: .6693
Facility County: Humboldt

Gepaid: CAL000114750
Contact: NORTH AMERICAN POWER GROUP LTD
Telephone: 3037968600
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 1158
Mailing City,St,Zip: BLUE LAKE, CA 955251158
Gen County: Humboldt
TSD EPA ID: CAT080011059
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: R01
Tons: .6879
Facility County: Humboldt

Click this hyperlink while viewing on your computer to access
7 additional CA_HAZNET: record(s) in the EDR Site Report.

EMI:
Year: 2006
County Code: 12
Air Basin: NC
Facility ID: 97
Air District Name: NCU
SIC Code: 4911
Air District Name: NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2007
County Code: 12
Air Basin: NC
Facility ID: 97
Air District Name: NCU
SIC Code: 4911

ULTRAPOWER 3 (Continued) **S103340829**

Air District Name:	NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2007
County Code:	12
Air Basin:	NC
Facility ID:	97
Air District Name:	NCU
SIC Code:	4911
Air District Name:	NORTH COAST UNIFIED AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

A3
East
1/8-1/4
0.126 mi.
668 ft.

WALLACE & HINZ MANUFACTURE & DESIGN **CUPA Listings** **S108757651**
100 TAYLOR WAY **HAZNET** **N/A**
BLUE LAKE, CA 95525

Site 1 of 4 in cluster A

Relative:
Equal

Actual:
83 ft.

CUPA HUMBOLDT:

Local Site Id:	002418
Region:	HUMBOLDT
Cross Street:	Not reported
Program/Element:	Hazardous Materials Business Plan
Permit Status:	Active
Latitude:	40.8795
Longitude:	-124.99178

HAZNET:

Gepaid:	CAL000309552
Contact:	TERRY BEAUDET
Telephone:	7078261729
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 708
Mailing City,St,Zip:	BLUE LAKE, CA 95525
Gen County:	Humboldt
TSD EPA ID:	CA0000084517
TSD County:	Sacramento
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	H14
Tons:	0.01

WALLACE & HINZ MANUFACTURE & DESIGN (Continued) **S108757651**

Facility County: Humboldt

Gepaid: CAL000309552
Contact: TERRY BEAUDET
Telephone: 7076681829
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 708
Mailing City,St,Zip: BLUE LAKE, CA 955250000
Gen County: Humboldt
TSD EPA ID: TXD077603371
TSD County: 99
Waste Category: Other organic solids
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 0.375
Facility County: Humboldt

Gepaid: CAL000309552
Contact: TERRY BEAUDET
Telephone: 7076681829
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 708
Mailing City,St,Zip: BLUE LAKE, CA 955250000
Gen County: Humboldt
TSD EPA ID: CA0000084517
TSD County: Sacramento
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.072
Facility County: Humboldt

Gepaid: CAL000309552
Contact: TERRY BEAUDET
Telephone: 7076681829
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 708
Mailing City,St,Zip: BLUE LAKE, CA 955250000
Gen County: Humboldt
TSD EPA ID: TXD077603371
TSD County: 99
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 0.275
Facility County: Humboldt

Gepaid: CAL000309552
Contact: TERRY BEAUDET
Telephone: 7076681829
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: PO BOX 708
Mailing City,St,Zip: BLUE LAKE, CA 955250000
Gen County: Humboldt
TSD EPA ID: TXD077603371

WALLACE & HINZ MANUFACTURE & DESIGN (Continued) **S108757651**

TSD County: 99
Waste Category: Other organic solids
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 0.675
Facility County: Humboldt

Click this hyperlink while viewing on your computer to access
4 additional CA_HAZNET: record(s) in the EDR Site Report.

A4 **PUBLIC WORKS YARD** **SWEEPS UST** **S106930945**
East **401 HATCHERY RD** **N/A**
1/8-1/4 **BLUE LAKE, CA 95525**
0.127 mi.
668 ft. **Site 2 of 4 in cluster A**

Relative:
Equal

Actual:
83 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 56733
Number: Not reported
Board Of Equalization: Not reported
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 12-000-056733-000001
Actv Date: Not reported
Capacity: 500
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: 3

Status: Not reported
Comp Number: 56733
Number: Not reported
Board Of Equalization: Not reported
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 12-000-056733-000002
Actv Date: Not reported
Capacity: 550
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 56733
Number: Not reported
Board Of Equalization: Not reported
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported

PUBLIC WORKS YARD (Continued) **S106930945**

Owner Tank Id:	Not reported
Swrcb Tank Id:	12-000-056733-000003
Actv Date:	Not reported
Capacity:	1000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

A5 **PUBLIC WORKS YARD** **HIST UST** **U001611541**
East **401 1/2 HATCHERY RD.** **N/A**
1/8-1/4 **BLUE LAKE, CA 95525**
0.127 mi.
668 ft. **Site 3 of 4 in cluster A**

Relative:
Equal

Actual:
83 ft.

HIST UST:

Region:	STATE
Facility ID:	00000056733
Facility Type:	Other
Other Type:	MAINT. YARD
Total Tanks:	0002
Contact Name:	R.S. HARNDEN
Telephone:	7076685655
Owner Name:	CITY OF BLUE LAKE
Owner Address:	111 GREENWOOD
Owner City,St,Zip:	BLUE LAKE, CA 95525
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000400
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000400
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	Not reported
Leak Detection:	None

A6 **CALGON CARBON CORPORATION** **RCRA-LQG** **1007200275**
ESE **501 HATCHERY ROAD** **NPDES** **CAL000115740**
1/8-1/4 **BLUE LAKE, CA 95525** **CUPA Listings**
0.127 mi. **HAZNET**
672 ft. **Site 4 of 4 in cluster A**

Relative:
Equal

Actual:
83 ft.

RCRA-LQG:

Date form received by agency:	02/26/2002
Facility name:	CALGON CARBON CORPORATION
Facility address:	501 HATCHERY ROAD
	BLUE LAKE, CA 95525

CALGON CARBON CORPORATION (Continued) **1007200275**

EPA ID: CAL000115740
Mailing address: PO BOX 857
BLUE LAKE, CA 95525
Contact: LEE W BROWN
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (707) 668-5637
Contact email: Not reported
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: CALGON CARBON CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/01/1992
Owner/Op end date: Not reported

Owner/operator name: CALGON CARBON CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/01/1992
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: Unknown
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: Unknown
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: Unknown
Used oil processor: Unknown

CALGON CARBON CORPORATION (Continued) **1007200275**

User oil refiner: Unknown
Used oil fuel marketer to burner: Unknown
Used oil Specification marketer: Unknown
Used oil transfer facility: Unknown
Used oil transporter: Unknown
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: Unknown
Generated waste on-site: Unknown

Waste type: Lamps
Accumulated waste on-site: Unknown
Generated waste on-site: Unknown

Waste type: Pesticides
Accumulated waste on-site: Unknown
Generated waste on-site: Unknown

Waste type: Thermostats
Accumulated waste on-site: Unknown
Generated waste on-site: Unknown

Hazardous Waste Summary:
Waste code: D010
Waste name: SELENIUM

Violation Status: No violations found

NPDES:
Npdes Number: CAS00001
Facility Status: Terminated
Agency Id: N/A
Region: 1
Regulatory Measure Id: Not Availa
Order No: Not reported
Regulatory Measure Type: Enrollee
Place Id: Not Availa
WDID: 1 12I007018
Program Type: Industrial
Adoption Date Of Regulatory Measure: N/A
Effective Date Of Regulatory Measure: 5/27/1992
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Blue Lake City
Discharge Address: PO Box 458
Discharge City: Blue Lake
Discharge State: Ca
Discharge Zip: 95525

Npdes Number: CAS00001
Facility Status: Active
Agency Id: N/A
Region: 1
Regulatory Measure Id: Not Availa
Order No: 97-03-DWQ

CALGON CARBON CORPORATION (Continued) **1007200275**

Regulatory Measure Type:	Enrollee
Place Id:	Not Availa
WDID:	1 12I007337
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	N/A
Effective Date Of Regulatory Measure:	7/2/1993
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Calgon Carbon Corp
Discharge Address:	501 Hatchery Road
Discharge City:	Blue Lake
Discharge State:	Ca
Discharge Zip:	95525

CUPA HUMBOLDT:

Local Site Id:	000452
Region:	HUMBOLDT
Cross Street:	Not reported
Program/Element:	Hazardous Materials Business Plan
Permit Status:	Active
Latitude:	40.877896252
Longitude:	-123.992132695

Local Site Id:	000452
Region:	HUMBOLDT
Cross Street:	Not reported
Program/Element:	Hazardous Materials Quantity Fee
Permit Status:	Active
Latitude:	40.877896252
Longitude:	-123.992132695

Local Site Id:	000452
Region:	HUMBOLDT
Cross Street:	Not reported
Program/Element:	Haz Waste Generator (SQG) Annual Fee
Permit Status:	Fee Exempt
Latitude:	40.877896252
Longitude:	-123.992132695

HAZNET:

Gepaid:	CAL000115740
Contact:	ROBERT M. RAYNER, OPERATIONS M
Telephone:	7076685637
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 857
Mailing City,St,Zip:	BLUE LAKE, CA 955250857
Gen County:	Humboldt
TSD EPA ID:	NVT330010000
TSD County:	Humboldt
Waste Category:	Gas scrubber waste
Disposal Method:	D80
Tons:	17.69
Facility County:	Humboldt

Gepaid:	CAL000115740

CALGON CARBON CORPORATION (Continued) **1007200275**

Contact:	M.A. HARVEY, PLANT SERV. COORD
Telephone:	7076685637
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 857
Mailing City,St,Zip:	BLUE LAKE, CA 955250857
Gen County:	Humboldt
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Gas scrubber waste
Disposal Method:	LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)
Tons:	70.7952
Facility County:	Humboldt

Gepaid:	CAL000115740
Contact:	BRENT D. MISBACH, OPTNS MGR.
Telephone:	7076685637
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 857
Mailing City,St,Zip:	BLUE LAKE, CA 955250857
Gen County:	Humboldt
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Gas scrubber waste
Disposal Method:	D80
Tons:	5.89
Facility County:	Not reported

Gepaid:	CAL000115740
Contact:	BRENT D. MISBACH, OPTNS MGR.
Telephone:	7076685637
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 857
Mailing City,St,Zip:	BLUE LAKE, CA 955250857
Gen County:	Humboldt
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Gas scrubber waste
Disposal Method:	D80
Tons:	5.89
Facility County:	Not reported

B7 **LUNDBLADE PROPERTY** **HIST CORTESE** **S102432804**
ENE **441 RAILROAD AVENUE** **LUST** **N/A**
1/8-1/4 **BLUE LAKE, CA 95525** **SWEEPS UST**
0.240 mi. **HAZNET**
1269 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
85 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	12
Reg By:	LTNKA
Reg Id:	1THU146

LUNDBLADE PROPERTY (Continued) **S102432804**

LUST:

Region:	STATE
Global Id:	T0602300117
Latitude:	40.8802825
Longitude:	-123.989437
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	2003-02-25 00:00:00
Lead Agency:	HUMBOLDT COUNTY LOP
Case Worker:	BS
Local Agency:	HUMBOLDT COUNTY LOP
RB Case Number:	1THU146
LOC Case Number:	12146
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST REG 1:

Region:	1
Facility ID:	1THU146
Staff Initials:	HUM

SWEEPS UST:

Status:	Not reported
Comp Number:	59899
Number:	Not reported
Board Of Equalization:	44-005154
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	12-000-059899-000001
Actv Date:	Not reported
Capacity:	550
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

HAZNET:

Gepaid:	CAC001138312
Contact:	RON LUMDBLADE
Telephone:	0000000000
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	4050 PATRICIA DR
Mailing City,St,Zip:	EUREKA, CA 955030000
Gen County:	Humboldt
TSD EPA ID:	CAD009007626
TSD County:	Los Angeles
Waste Category:	Asbestos containing waste

LUNDBLADE PROPERTY (Continued) **S102432804**

Disposal Method: D80
Tons: 25.2840
Facility County: Humboldt

B8 **MICKS TRACTOR RPR** **RCRA-SQG** **1000905265**
ENE **170 HATCHERY RD** **FINDS** **CA0000440297**
1/8-1/4 **BLUE LAKE, CA 95525**
0.250 mi.
1318 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
85 ft.

RCRA-SQG:
Date form received by agency: 06/23/1994
Facility name: MICKS TRACTOR RPR
Facility address: 170 HATCHERY RD
BLUE LAKE, CA 95525
EPA ID: CA0000440297
Mailing address: HATCHERY RD
BLUE LAKE, CA 95525
Contact: MARSHAL LITTLEPAGE
Contact address: 170 HATCHERY RD
BLUE LAKE, CA 95525
Contact country: US
Contact telephone: (707) 668-5661
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: MARSHALL LITTLEPAGE
Owner/operator address: 170 HATCHERY RD
BLUE LAKE, CA 95525
Owner/operator country: Not reported
Owner/operator telephone: (707) 668-5661
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No

MICKS TRACTOR RPR (Continued) **1000905265**

Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Verified to be non-commercial

Violation Status: No violations found

FINDS:

Registry ID: 110002618187

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

9
East
1/4-1/2
0.262 mi.
1384 ft.

JACKSONS GARAGE **HIST CORTESE** **S100223981**
630 RAILROAD AVENUE **LUST** **N/A**
BLUE LAKE, CA 95525

Relative:
Higher

Actual:
84 ft.

CORTESE:
Region: CORTESE
Facility County Code: 12
Reg By: LTNKA
Reg Id: 1THU014

LUST:
Region: STATE
Global Id: T0602300014
Latitude: 40.8798706
Longitude: -123.988418
Case Type: LUST Cleanup Site
Status: Open - Verification Monitoring
Status Date: 2009-08-14 00:00:00
Lead Agency: HUMBOLDT COUNTY LOP
Case Worker: MAV
Local Agency: HUMBOLDT COUNTY LOP
RB Case Number: 1THU014
LOC Case Number: 12014
File Location: Local Agency
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Benzene, Gasoline, Toluene, Xylene
Site History: excavation of approximatley 1786 yards in Sept-Oct 2007. Results of water samples, from MW-14 in particular, indicate significant concentration and mass remains.

Click here to access the California GeoTracker records for this facility:

LUST REG 1:
Region: 1
Facility ID: 1THU014
Staff Initials: HUM

10
NE
1/4-1/2
0.263 mi.
1386 ft.

BIG OIL & TIRE COMPANY OFFICE — **LUST** — **S104163367**
211 RAILROAD AVENUE — **N/A**
BLUE LAKE, CA 95525

Relative:
Higher

Actual:
88 ft.

LUST:

Region:	STATE
Global Id:	T0602300460
Latitude:	40.8818885
Longitude:	-123.9913161
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	2010-07-22 00:00:00
Lead Agency:	HUMBOLDT COUNTY LOP
Case Worker:	BS
Local Agency:	HUMBOLDT COUNTY LOP
RB Case Number:	1THU660
LOC Case Number:	12660
File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Benzene, Fuel Oxygenates, Toluene, Gasoline, Xylene
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST REG 1:

Region:	1
Facility ID:	1THU660
Staff Initials:	HUM

11
NE
1/4-1/2
0.273 mi.
1440 ft.

MARSH COMMONS — **SLIC** — **S105050871**
101 G STREET, SOUTH — **N/A**
ARCATA, CA 95521

Relative:
Higher

Actual:
90 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	2001-10-22 00:00:00
Global Id:	T0602393401
Lead Agency:	NORTH COAST RWQCB (REGION 1)
Lead Agency Case Number:	Not reported
Latitude:	40.8610655
Longitude:	-124.0886837
Case Type:	Cleanup Program Site
Case Worker:	ZZZ
Local Agency:	HUMBOLDT COUNTY LOP
RB Case Number:	1NHU606
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC:

Region:	1

MARSH COMMONS (Continued) **S105050871**

Facility ID: 1NHU606
Staff Initials: Facility Closed

12
ENE
1/4-1/2
0.312 mi.
1647 ft.

BLUE LAKE BELTING AND LEATHER WORKS
411 RAILROAD AVENUE
BLUE LAKE, CA 95525

HIST CORTESE **S104163368**
LUST **N/A**

Relative:
Higher

Actual:
94 ft.

CORTESE:
Region: CORTESE
Facility County Code: 12
Reg By: LTNKA
Reg Id: 1THU012

LUST:
Region: STATE
Global Id: T0602300012
Latitude: 40.8803805
Longitude: -123.989627
Case Type: LUST Cleanup Site
Status: Open - Verification Monitoring
Status Date: 2005-04-05 00:00:00
Lead Agency: HUMBOLDT COUNTY LOP
Case Worker: MAV
Local Agency: HUMBOLDT COUNTY LOP
RB Case Number: 1THU012
LOC Case Number: 12012
File Location: Local Agency
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Benzene, Gasoline, Toluene, Xylene
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST REG 1:
Region: 1
Facility ID: 1THU012
Staff Initials: HUM

C13
North
1/4-1/2
0.354 mi.
1869 ft.

BLUE LAKE MARKET
410 RAILROAD AVE
BLUE LAKE, CA 95525
Site 1 of 2 in cluster C

HIST CORTESE **U001611535**
HIST UST **N/A**
SWEEPS UST

Relative:
Lower

Actual:
81 ft.

CORTESE:
Region: CORTESE
Facility County Code: 12
Reg By: LTNKA
Reg Id: 1THU229

HIST UST:
Region: STATE
Facility ID: 00000006768

BLUE LAKE MARKET (Continued) **U001611535**

Facility Type: Gas Station
Other Type: Not reported
Total Tanks: 0001
Contact Name: PATRICK FOLKINS
Telephone: 7076685768
Owner Name: BLUE LAKE MKT, INC.
Owner Address: 410 RAILROAD AVE.
Owner City,St,Zip: BLUE LAKE, CA 95525

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor, None

SWEEPS UST:
Status: Not reported
Comp Number: 6768
Number: Not reported
Board Of Equalization: 44-004827
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 12-000-006768-000001
Actv Date: Not reported
Capacity: 550
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

C14 **BLUE LAKE MARKET** **LUST** **S105032952**
North **410 RAILROAD AVENUE** **N/A**
1/4-1/2 **BLUE LAKE, CA 95525**
0.354 mi.
1869 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
81 ft.

LUST:
Region: STATE
Global Id: T0602300170
Latitude: 40.8803835
Longitude: -123.989634
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 2008-05-02 00:00:00
Lead Agency: HUMBOLDT COUNTY LOP
Case Worker: MAV
Local Agency: HUMBOLDT COUNTY LOP
RB Case Number: 1THU229
LOC Case Number: 12229
File Location: Local Agency
Potential Media Affect: Aquifer used for drinking water supply

BLUE LAKE MARKET (Continued) **S105032952**

Potential Contaminants of Concern: Benzene, Gasoline, Toluene, Xylene
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

15
ENE
1/4-1/2
0.404 mi.
2134 ft.

CHEVRON #9-5504 **LUST** **S102427296**
FOURTH STREET 698 **N/A**
ARCATA, CA

Relative:
Higher

Actual:
105 ft.

LUST REG 1:
Region: 1
Facility ID: 1THU169
Staff Initials: Closed

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 15

Source: EPA
Telephone: N/A
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
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: 12/31/2010
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 15

Source: EPA
Telephone: N/A
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

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

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 15

Source: EPA
Telephone: N/A
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

Federal CERCLIS list

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

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

Date of Government Version: 11/30/2010
Date Data Arrived at EDR: 12/30/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 57

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPAa??s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010
Date Data Arrived at EDR: 01/11/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/11/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

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

Date of Government Version: 10/28/2010
Date Data Arrived at EDR: 12/01/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 86

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 05/25/2010
Date Data Arrived at EDR: 06/02/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 124

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/05/2011
Date Data Arrived at EDR: 01/14/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 01/05/2011
Date Data Arrived at EDR: 01/14/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 73

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 02/07/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

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

Date of Government Version: 02/07/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Quarterly

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

SWF/LF (SWIS): Solid Waste Information System

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

Date of Government Version: 02/22/2011
Date Data Arrived at EDR: 02/22/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 28

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
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: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

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

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

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

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: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

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

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 05/17/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
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: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

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

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

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: 01/17/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Varies

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: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
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: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
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: 01/17/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

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

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

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

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

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

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

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

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 02/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

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

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 02/07/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Annually

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

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly

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: 09/01/2010
Date Data Arrived at EDR: 11/05/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 84

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/03/2011
Next Scheduled EDR Contact: 05/16/2011
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: 02/04/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

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

Date of Government Version: 08/27/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 02/16/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Semi-Annually

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: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 11/04/2009
Date Data Arrived at EDR: 05/04/2010
Date Made Active in Reports: 07/07/2010
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/04/2010
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

State and tribal registered storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/07/2011
Number of Days to Update: 31

Source: SWRCB
Telephone: 916-480-1028
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 02/04/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 12/02/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 57

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/03/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/11/2010
Date Data Arrived at EDR: 02/11/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 60

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/27/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 02/16/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/01/2010
Date Data Arrived at EDR: 11/05/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 84

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/03/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/17/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

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

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 02/07/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/01/2010
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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: 12/29/2010
Date Data Arrived at EDR: 12/30/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: No Update Planned

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 36

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 02/22/2011
Date Data Arrived at EDR: 02/22/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 30

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/08/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/03/2010
Date Data Arrived at EDR: 12/30/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 48

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/08/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 02/07/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

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

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

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 03/04/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

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

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8
Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18
Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing
Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 11/09/2010
Date Data Arrived at EDR: 11/16/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 92
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 12/08/2010
Date Data Arrived at EDR: 12/09/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 47
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/14/2010
Date Data Arrived at EDR: 12/14/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/18/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 51

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/21/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 30

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 32

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

Other Ascertainable Records

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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

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

Date of Government Version: 10/13/2010
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/11/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
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: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/15/2011
Next Scheduled EDR Contact: 06/27/2011
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: 10/01/2010
Date Data Arrived at EDR: 10/29/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 91

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/25/2011
Date Data Arrived at EDR: 03/16/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 5

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/16/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/21/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 99

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 03/04/2011
Next Scheduled EDR Contact: 06/13/2011
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: 08/04/2010
Date Data Arrived at EDR: 09/09/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/09/2011
Next Scheduled EDR Contact: 06/20/2011
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: 12/31/2009
Date Data Arrived at EDR: 12/17/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 94

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

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

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

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

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

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 01/07/2011
Date Data Arrived at EDR: 01/21/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
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: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
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: 03/18/2010
Date Data Arrived at EDR: 04/06/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 51

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 01/11/2011
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010
Date Data Arrived at EDR: 04/16/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 41

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 12/31/2007
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 05/12/2010
Number of Days to Update: 76

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

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

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/22/2011
Date Data Arrived at EDR: 02/22/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
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: 01/04/2011
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 20

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES].

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

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

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/15/2010
Date Data Arrived at EDR: 09/16/2010
Date Made Active in Reports: 09/29/2010
Number of Days to Update: 13

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

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

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

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

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/07/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 36

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/19/2011
Next Scheduled EDR Contact: 05/02/2011
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: 12/31/2008
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 10/18/2010
Number of Days to Update: 19

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 04/01/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

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

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

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 05/09/2011
Data Release Frequency: Varies

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 11/17/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 36
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 12/09/2010
Date Data Arrived at EDR: 12/17/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 39
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/18/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/18/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/17/2011
Date Data Arrived at EDR: 01/18/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 10
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/18/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/09/2010
Date Data Arrived at EDR: 08/11/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 9
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/04/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 09/27/2010
Date Data Arrived at EDR: 09/28/2010
Date Made Active in Reports: 10/18/2010
Number of Days to Update: 20

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 06/01/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 02/04/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/04/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

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

Date of Government Version: 01/06/2011
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 18

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/06/2011
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 13

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
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: 03/10/2011
Date Data Arrived at EDR: 03/11/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 13

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 05/23/2011
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: 01/14/2011
Date Data Arrived at EDR: 01/18/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 10

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/17/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 02/08/2011
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

INYO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List
Cupa facility list.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 09/30/2010
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/30/2011
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: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/30/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/17/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/24/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 31

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/24/2011
Next Scheduled EDR Contact: 05/09/2011
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 02/18/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

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

Date of Government Version: 02/09/2011
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 23
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/25/2010
Next Scheduled EDR Contact: 05/09/2011
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 23
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/24/2011
Next Scheduled EDR Contact: 05/06/2011
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: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/18/2011
Date Data Arrived at EDR: 01/25/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 37
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/17/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 01/14/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 31
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21
Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/20/2011
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 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: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

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

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: No Update Planned

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 02/17/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 02/17/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

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

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 02/15/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 16

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/15/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 31
Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 12/08/2010
Date Data Arrived at EDR: 12/09/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 50
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 12/08/2010
Date Data Arrived at EDR: 12/09/2010
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 42
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/03/2010
Date Data Arrived at EDR: 01/20/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 8
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/03/2010
Date Data Arrived at EDR: 01/20/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 8
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/25/2011
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: 03/10/2011
Date Data Arrived at EDR: 03/11/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 13

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

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

Date of Government Version: 09/09/2010
Date Data Arrived at EDR: 09/15/2010
Date Made Active in Reports: 09/29/2010
Number of Days to Update: 14

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/18/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2010
Date Data Arrived at EDR: 11/16/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 70

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

Environmental Case Listing

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

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 12/21/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

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

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

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 05/30/2011
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: 12/29/2010
Date Data Arrived at EDR: 01/04/2011
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 16
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/17/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

SAN MATEO COUNTY:

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

Date of Government Version: 02/14/2011
Date Data Arrived at EDR: 02/17/2011
Date Made Active in Reports: 04/01/2011
Number of Days to Update: 43
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Annually

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

Date of Government Version: 12/17/2010
Date Data Arrived at EDR: 12/20/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 39
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

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: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

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

Date of Government Version: 05/29/2009
Date Data Arrived at EDR: 06/01/2009
Date Made Active in Reports: 06/15/2009
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/31/2009
Date Data Arrived at EDR: 08/31/2009
Date Made Active in Reports: 09/18/2009
Number of Days to Update: 18

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 03/15/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 11/30/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks

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

Date of Government Version: 12/08/2010
Date Data Arrived at EDR: 12/17/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 42

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Quarterly

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

Date of Government Version: 12/08/2010
Date Data Arrived at EDR: 12/29/2010
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 22

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 06/20/2011
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: 01/05/2011
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

SUTTER COUNTY:

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

Date of Government Version: 03/14/2011
Date Data Arrived at EDR: 03/15/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 9

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 01/26/2011
Date Data Arrived at EDR: 02/25/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 25

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
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: 08/01/2009
Date Data Arrived at EDR: 10/05/2009
Date Made Active in Reports: 10/13/2009
Number of Days to Update: 8

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/07/2011
Next Scheduled EDR Contact: 07/25/2011
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

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

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Quarterly

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

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 12/20/2010
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 31
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 01/25/2011
Date Data Arrived at EDR: 02/03/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 29
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/11/2011
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: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16
Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/25/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/22/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 35
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
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: 12/31/2010
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 23
Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/09/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/06/2011
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/19/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 38

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Annually

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

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 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.

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BLUE LAKE BUSINESS PARK
TAYLOR WAY
ARCATA, CA 95521

TARGET PROPERTY COORDINATES

Latitude (North):	40.87880 - 40° 52' 43.7''
Longitude (West):	123.9943 - 123° 59' 39.5''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	416222.0
UTM Y (Meters):	4525567.0
Elevation:	83 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40123-H8 BLUE LAKE, CA
Most Recent Revision:	1979
South Map:	40123-G8 KORBEL, CA
Most Recent Revision:	1979
Southwest Map:	40124-G1 ARCATA SOUTH, CA
Most Recent Revision:	1972
West Map:	40124-H1 ARCATA NORTH, CA
Most Recent Revision:	1972

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).

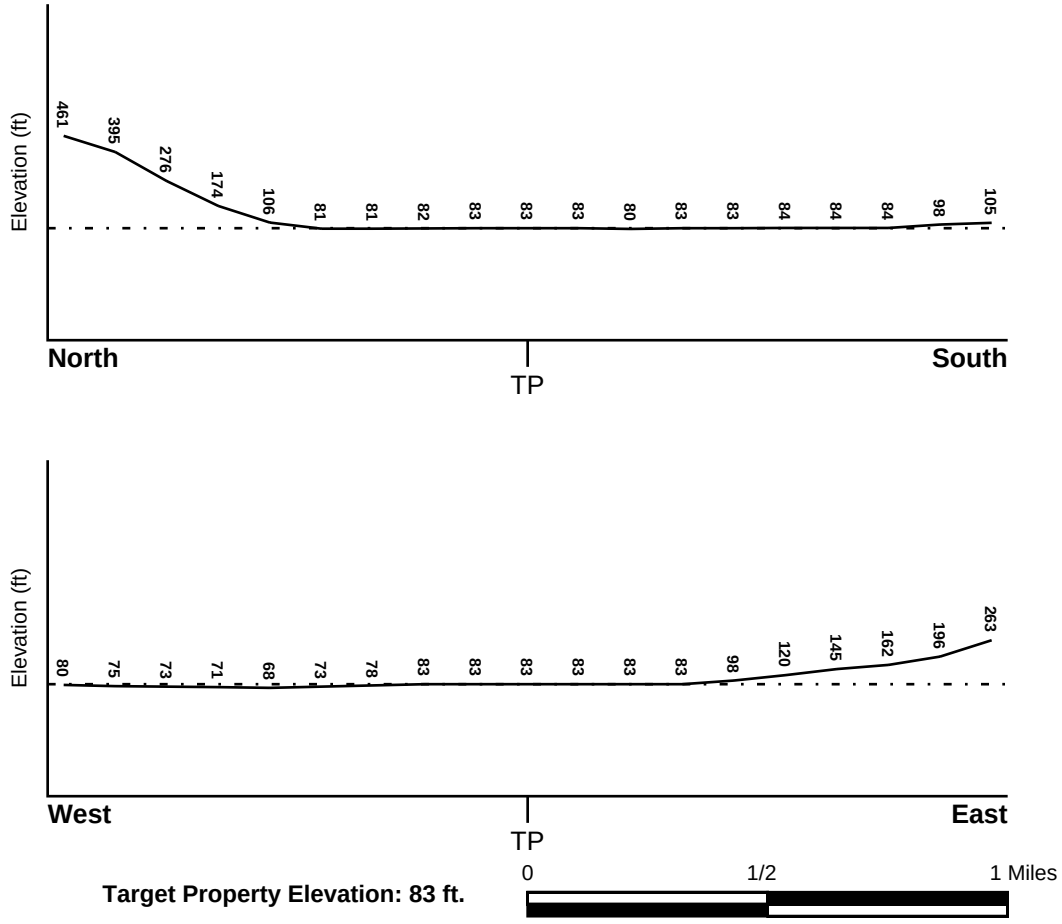
TOPOGRAPHIC INFORMATION

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 WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 83 ft.

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
HUMBOLDT, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	0604380001A - FEMA Q3 Flood data
Additional Panels in search area:	0600600650B - FEMA Q3 Flood data 0600600620B - FEMA Q3 Flood data 0600600785B - FEMA Q3 Flood data 0600600825B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BLUE LAKE	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:	Cretaceous
Series:	Upper Mesozoic
Code:	uMze*(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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	FERNDALE
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	21 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.60
2	21 inches	61 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
3	61 inches	80 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 8.40 Min: 7.40

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silty clay loam
very gravelly - sand
loam
sand
sandy loam

Surficial Soil Types: silty clay loam
very gravelly - sand
loam
sand
sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: sandy clay loam
stratified
silty clay loam
sand
silt loam
coarse sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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
3	USGS3255207	1/2 - 1 Mile SW
4	USGS3247236	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

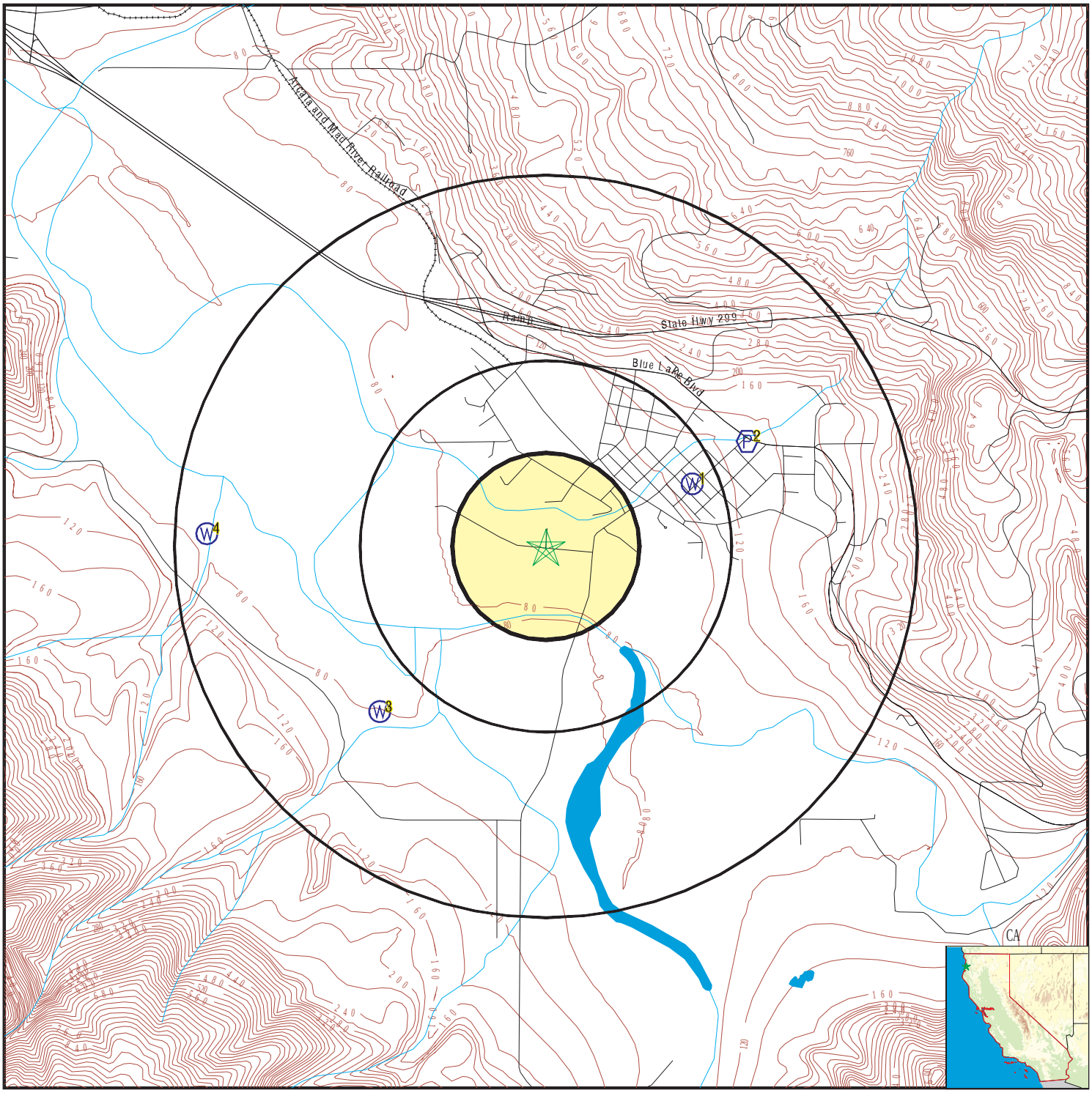
MAP ID	WELL ID	LOCATION FROM TP
2	CA1210002	1/2 - 1 Mile ENE

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	6510	1/4 - 1/2 Mile ENE

PHYSICAL SETTING SOURCE MAP - 3040347.1s



- 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:	Blue Lake Business Park	CLIENT:	SHN Consulting Engineers
ADDRESS:	Taylor Way Arcata CA 95521	CONTACT:	Diana Ward
LAT/LONG:	40.8788 / 123.9943	INQUIRY #:	3040347.1s
		DATE:	April 13, 2011 3:23 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
ENE **CA WELLS** **6510**
1/4 - 1/2 Mile
Higher

Water System Information:

Prime Station Code:	06N/02E-19N01 H	User ID:	12C
FRDS Number:	1200682001	County:	Humboldt
District Number:	42	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Treated
Source Lat/Long:	405253.0 1235908.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	EAST WELL - TREATED		
System Number:	1200682		
System Name:	BLUE LAKE MH PARK		
Organization That Operates System:			
	3851 H ST.		
	EUREKA, CA 95501		
Pop Served:	30	Connections:	18
Area Served:	Not Reported		

2
ENE **FRDS PWS** **CA1210002**
1/2 - 1 Mile
Higher

PWS ID:	CA1210002		
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	CITY OF BLUE LAKE		
	BLUE LAKE, CA 95525		
Addressee / Facility:	Not Reported		
Facility Latitude:	40 52 59	Facility Longitude:	123 58 58
City Served:	BLUE LAKE		
Treatment Class:	Treated	Population:	1437

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name:	CITY OF BLUE LAKE		
Violation Type:	Failure to Filter (SWTR)		
Contaminant:	SWTR		
Compliance Period:	1992-01-01 - 2015-12-31		
Violation ID:	97099999		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	City of Blue Lake		
Violation Type:	Failure to Filter (SWTR)		
Contaminant:	SWTR		
Compliance Period:	1/1/1992 0:00:00 - 12/31/2025 0:00:00		
Violation ID:	9799999		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00

ENFORCEMENT INFORMATION:

System Name:	CITY OF BLUE LAKE		
Violation Type:	Failure to Filter (SWTR)		
Contaminant:	SWTR		
Compliance Period:	1992-01-01 - 2015-12-31		
Violation ID:	9799999		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

System Name:	City of Blue Lake		
Violation Type:	Failure to Filter (SWTR)		
Contaminant:	SWTR		
Compliance Period:	1/1/1992 0:00:00 - 12/31/2025 0:00:00		
Violation ID:	9799999		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported

---

3
SW
1/2 - 1 Mile
Lower

FED USGS **USGS3255207**

Agency cd:	USGS	Site no:	405221124000601
Site name:	006N002E30M001H		
Latitude:	405221	EDR Site id:	USGS3255207
Longitude:	1240006	Dec lat:	40.87235145
Dec lon:	-124.00283765	Coor meth:	M
Coor accr:	U	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	023
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	20		
Altitude datum:	Not Reported		
Hydrologic:	MadRedwood. California. Area = 1130 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1951
Date inventoried:	19701015	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	ALLUVIUM		
Well depth:	56	Hole depth:	Not Reported
Source of depth data:	other reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1970-10-15
Water quality data end date:	1974-04-09	Water quality data count:	9
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
FED USGS	**USGS3247236**

4
West
1/2 - 1 Mile
Lower

Agency cd:	USGS	Site no:	405246124003801
Site name:	006N001E25B001H		
Latitude:	405246	EDR Site id:	USGS3247236
Longitude:	1240038	Dec lat:	40.8792956
Dec lon:	-124.01172703	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	023
Country:	US	Land net:	Not Reported
Location map:	ARCATA NORTH	Map scale:	24000
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	MadRedwood. California. Area = 1130 sq.mi.		
Topographic:	Stream channel		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	19701015	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	ALLUVIUM		
Well depth:	34	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1970-10-15
Water quality data end date:	1974-04-09	Water quality data count:	8
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95521	16	0

Federal EPA Radon Zone for HUMBOLDT County: 3

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: 95521

Number of sites tested: 8

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.288 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

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

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 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.

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
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

Appendix E

Questionnaire and Supplemental Questions List

Site Assessment Questionnaire

Question	Owner			Occupant (if applicable)			Observed During Site Visit		
1. Is the property or any adjoining property used for an industrial use?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
Blue Lake Power (Adjoining)	Comments: City Corporation Yard.								
2. To the best of your knowledge, has the property or any adjoining property been occupied by an industrial use in the past?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
Blue Lake Power (Adj).	Comments: City Corporation Yard.								
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?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
Filled in Log Pond. ₰	Comments: City owned Parcels w/ Fill material								
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?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
Fill on City Parcels	Comments: City Corporation Yard (Asts.)								
5. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of greater than 5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
	Comments: City Corporation Yard & shop								
6. Are there currently, or the best of your knowledge have there been previously, any industrial drums (typically 55 gal, 208 L) or sacks of chemicals located on the property or at the facility?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
previous use of Corp yard	Comments: included a truck shop @ City Corp Yard.								
7. Has fill dirt been brought on the property that originated from a contaminated site or that is of an unknown origin?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
unknown Fill on City Parcel	Comments: & Fill in historical log pond.								
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?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
Historical log pond.	Comments: Former Mech P.t @ Corp Yard shop								
9. Is there currently, or to the best of your knowledge has there been previously, any stained soil on the property?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
City Corp Yard.	Comments:								
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?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
City Corp Yard.	Comments:								

Question	Owner			Occupant (if applicable)			Observed During Site Visit		
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?	Yes	No	Unk	Yes	No	Unk	Yes	(No)	Unk
	Comments: former UST @ Corp Yard.								
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?	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk
	Comments: Former Mechanics Pit Corp Yard shop								
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 environmental/health agency?	Yes	No	Unk	Yes	No	Unk	Yes	(No)	Unk
	Comments:								
14. Does the owner or 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?	Yes	No	Unk	Yes	No	Unk	Yes	(No)	Unk
	Comments:								
15. Has the owner or occupant or 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?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
Corp Yard former Ust.	Comments:								
16. Does the owner or occupant of the property have any knowledge of any environmental site assessment for the property or facility that indicated the presence of hazardous substances or petroleum products on, or contamination of, the property, or recommend further assessment of the property?	Yes	No	Unk	Yes	No	Unk	Yes	(No)	Unk
	Comments:								
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?	Yes	No	Unk	Yes	No	Unk	Yes	(No)	Unk
	Comments:								
18. Does the property discharge wastewater on or adjacent to the property other than storm water into a sanitary sewer system?	Yes	No	Unk	Yes	No	Unk	Yes	(No)	Unk
	Comments:								
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 ground, buried and/or burned~~ on the property?	Yes	No	Unk	Yes	No	Unk	(Yes)	No	Unk
Fill material on City Parcel.	Comments:								

Question	Owner			Occupant (if applicable)			Observed During Site Visit		
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	Yes	No	Unk	Yes	No	Unk	Yes	No	Unk
	Comments:								

21. What date did you purchase the property? ; and from whom?

22. Any other pertinent information or contacts?

This Owner questionnaire was completed by:

Name:

Title:

Firm:

Address:

Phone Number:

Date:

This Occupants questionnaire was completed by:

Name:

Title:

Firm:

Address:

Phone Number:

Date:

This Observers questionnaire was completed by:

Name: Patrick N. Barsanti

Title: REGISTERED ENVIRONMENTAL ASSESSOR REA#

Firm: SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.

Address: 812 W. WABASH

EUREKA, CA. 95501

Phone Number: (707) 441-8855

Date: APRIL

Reference: ASTM E 1527

Phase I ESA User Questionnaire

This User Questionnaire was prepared in general accordance with ASTM Standard E1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

Section I. Landowner Liability Protection Required Information

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments") the user must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

Question	Determination		
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 property that are filed or recorded under federal, tribal, state, or local law?	Yes	No **X**	Unk
Comments:			
2. Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Are you aware of any Activity and Use Limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?	Yes	No **X**	Unk
Comments:			
3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	Yes	No **X**	Unk
Comments:			

4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.20). Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	Yes **X**	No	Unk
Comments:			
5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,	Yes	No	Unk
a. Do you know the past uses of the property?	**X**		
b. Do you know of specific chemicals that are present or once were present at the property?		**X**	
c. Do you know of spills or other chemical releases that have taken place at the property?		**X**	
d. Do you know of any environmental cleanups that have taken place at the property?		**X**	
Comments: a.) **Former lumber mill and log pond**			
6. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.13). As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?	Yes	No	Unk **X**
Comments: **Former lumber mill and log pond**			

Section II. Useful Information for Conducting the Phase I ESA

Please answer the following questions and provide the requested information. (This information is intended to assist the environmental professional but is not necessarily required to qualify for one of the LLPs.) The information includes:

1. Why is this Phase I ESA required?
   To assess the subject sites and adjacent areas to support the sale or lease property within the City's Business Park and address any environmental concerns prior to development.

2. What type of property and property transaction is involved (for example, sale, purchase, exchange, etc.,)?

   Sale or Lease

3. Provide the complete and correct address for the property. (Attaching a map or other documentation showing property location and boundaries is helpful, if available.)

   APN's: 025-201-002; 025-201-006; 025-201-009; 025-201-019; and 312-161-015, and 312-161-018

4. Provide the scope of services desired for the Phase I (including whether any parties to the property transaction may have a required standard scope of services on whether any considerations beyond the requirements of Practice E 1527 are to be considered).

   ASTM Standard E 1527-05

5. Please identify and provide contact information for all parties who will rely on the Phase I Report.

   City of Blue Lake

6. Identify the site contact and provide contact information (name and phone number).

   John Berchtold, City Manager (707) 668-5655

7. Are there any special terms and conditions that must be agreed upon by the environmental professional? ☐ Yes ☒ No If so, what are they?

8. Please provide any other knowledge or experience with the property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the property and its environmental condition).

   None