

**M. J. Kloberdanz & Associates**  
**Environmental Services**

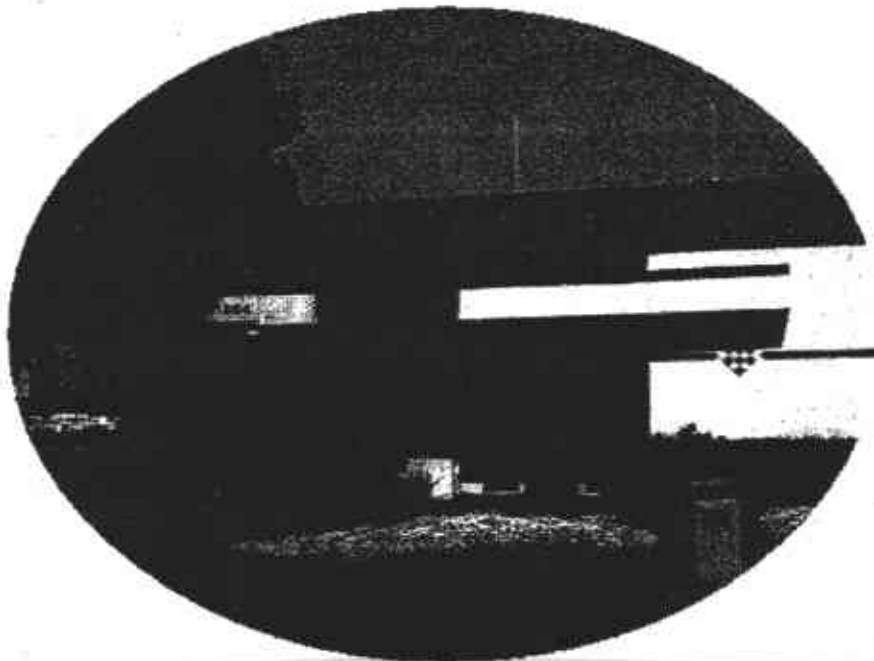
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**DENTICI PROPERTY**

**APN#098-0403-012**

**1403 First Street, Livermore, California**



**Phase I Environmental Assessment**

**Prepared For:**

**Carlos Ratinho**

*by:*

*Michael J. Kloberdanz, REA, REHS*

*April 14, 2003*

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*M. J. Kloberdanz & Associates*

*PO Box 576981, Modesto, CA 95357-6981 (209) 577-8186*

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1403 First Street, Livermore, California

## Phase I Environmental Assessment

Prepared For:

**Carlos Ratinho**

### AEI CONSULTANTS

*Environmental & Civil Engineering Services*

#### **PETER MCINTYRE**

*Project Manager, Geologist*

2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597-3940  
pmcintyre@aeiconsultants.com

Office: (925) 283-6000 x104  
Fax: (925) 944-2895

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# DENTICI PROPERTY

APN#098-0403-012

1403 First Street, Livermore, California

## Phase I Environmental Assessment

### 1.0 PURPOSE OF ASSESSMENT

The purpose of this assessment is to determine, by various means, the historical environmental past of a business and or parcels of land. The audit combined with a physical site inspection should provide sufficient information to determine if a more in depth assessment is necessary. Included in this assessment is information regarding current and past practices of handling hazardous materials, field interviews, and a regulatory record search. A secondary purpose of this assessment is to determine whether or not any liability exists in terms of a hazardous waste cleanup.

The investigation summarized in the following report was conducted using that level of skill and care as would be used by a competent professional in the industry for a similar project and under similar circumstances and conforms to the guidelines as set forth in ASTM Standard 1527-00.

### 2.0 PROPERTY DESCRIPTION

The Dentici Property (subject property) is located on parcel ~~APN# 098-0403-012 at 1304~~ First Street. It is situated in an established commercial area near downtown Livermore (Figure 1). The parcel measure approximately 0.59 acres.

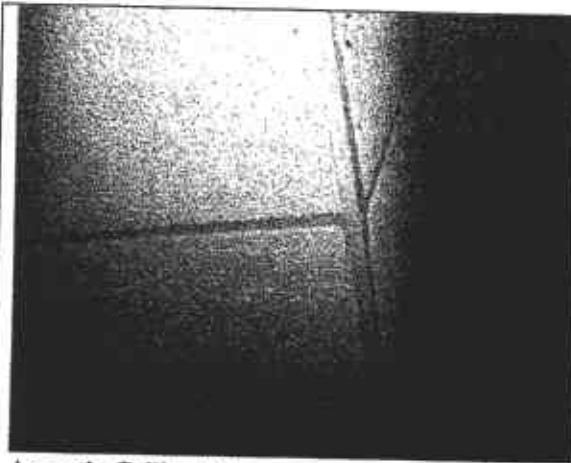
The topography of the Site is essentially flat. The land surface elevation slopes slightly from east to west.

### 3.0 SITE HISTORY

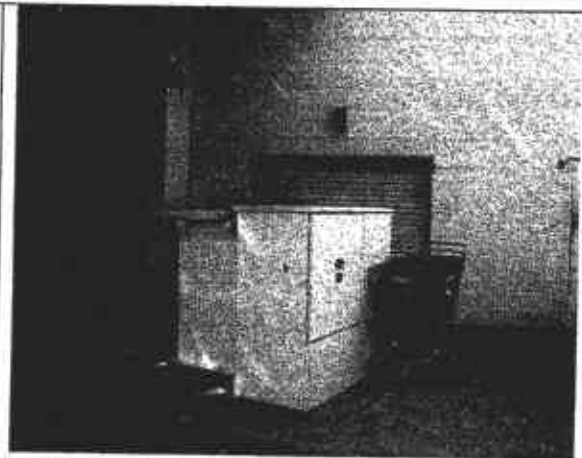
The historical use of the subject property was determined by reviewing business directories, title reports, historical Sanborn Fire Insurance Maps, aerial photographs (included), assessor's records, Fire Department and Environmental Health Department records. Interviews with regulatory personnel were also conducted.

**Dentici Property**  
**Phase I Environmental Assessment**  
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An inspection of the property was conducted on April 9, 2003. The property is currently occupied by a vacant restaurant building recently used by Bakers Square. A parking lot surrounds the building on three sides. The restaurant building has an acoustical ceiling that looks like it has been sealed with paint or lacquer. A grease separator is associated with the kitchen with cleanouts outside of the structure. No evidence of hazardous materials use or storage was observed during the inspection.



**Acoustic Ceiling Tiles**



**Transformer**



**Grease Separator**



**Dumpster Enclosure**

Aerial photographs show the current structure in the attached 1982 and 1993 photographs (Appendix B). In the 1970 photograph the property appears to be vacant. In the photographs from 1949, 1954 and 1960 the subject property appears to have been occupied by small residential dwellings or cabins. The surrounding property appears to be primarily agricultural in the 1949 aerial photograph becoming more residential with some commercial by the 1960 photograph.

The Assessor's Department records did not disclose any uses or improvements for the subject property prior to the construction of the restaurant building in 1973 for Sambo's

Restaurants. City of Livermore Building and Engineering Departments records were limited to the restaurant building. City directories reviewed at the Livermore Library were available in years 1963 through 1972 and showed no listing for subject property address. However, the 1963 directory has a listing for a Chevron Gasoline Station at 1336 First Street. This address was determined to be located next door to the east of the subject property.

Livermore Fire Department and Hazardous Materials Division had no hazardous incident files to review for the subject property or the immediately adjacent properties. The Fire Department did confirm a listing for a Chevron Station at 1336 First Street in the 1960's.

Historical Sanborn maps were reviewed as far back as 1888. The subject property was not depicted on the maps. However, the area about 200 feet to the east of the subject property line was mapped and occupied by grain warehouses and other commercial agricultural facilities. Some of the ware houses, silos and barns can be seen in the 1949 aerial photograph.

A copy of a Soils Investigation for the proposed Sambo's Restaurant prepared by J.H. Kleinfelder and Associates in 1972 was provided by the property owner. The report describes work conducted to explore the subsurface soil conditions for foundations, floor slabs, site preparation and grading, pavements, and parking and not environmental conditions. In a section titled Site Conditions a reference to a former service station is made. The report indicates that there was an existing house and garage on the northwest corner of the site. There were also several existing concrete slabs on the property and that the property was formerly occupied by a service station building. The service station was removed and it was not known whether the underground gasoline tanks had been removed. M.J. Klobberdanz & Associates reviewed the report and included the first few pages in Appendix E.

Since no other information source referenced a gasoline service station on the subject property the current owner, Louis Dentici was contacted for additional information. Mr. Dentici indicated that the property had been in the family since the 1920's. He said the parcel had a small house and garage on it with gasoline sales in the 1930's. Petroleum was not available to them for resale during World War II but the facility resumed sales shortly after the war in 1945 and continued to the late 1950's. He also confirmed that the Chevron Service Station was on the next parcel to the east.

### **3.1 Site Location**

Maps have been provided in order to give a picture of the location of the subject property. Maps included are a vicinity map (Figure 1), a parcel and topographical



map (Appendix A), aerial photographs (Appendix B), a record search index map (Appendix C).

### 3.2 Description of the Area

The subject property is located in an established commercial area, with some residential in the areas to the south and southwest. The parcel is currently surrounded by other businesses, restaurants, strip malls and professional offices. It is about one mile south of Interstate Highway 580 and about one quarter mile west of downtown Livermore. Some existing and developing industry and manufacturers are located near the property on the north side along Railroad Avenue.

Historical topographic maps dating back to 1953 and aerial photographs dating back to 1949 were reviewed for the surrounding area. The subject area appears to be primarily agricultural prior to the mid 1950's becoming residential in the 1960's with commercial uses increasing in the 1970's. A trailer park is apparent in the 1949 through 1960 aerial photographs on the adjacent parcel to the east.

### 3.3 Geology & Hydrology

The soils in this area consist of Quaternary Alluvium overlying Franciscan bedrock (Geologic Map of California, San Francisco Sheet, State of California Division of Mines and Geology, 1980). Bedrock is likely to occur at a depth of greater than 50 feet beneath the site. The soils beneath the site can be expected to consist of primarily of fine grain soils (silts and clays), with the majority of shallow groundwater movement occurring in this sand and gravel layers and/or "stringers".

Based upon the surface topography, as well as the various hydrologic features in the vicinity of the site, the general regional shallow groundwater can be expected to flow from the Diablo Range (area of groundwater recharge) and move westerly toward San Francisco Bay (area of discharge).

Groundwater is reported to be at a depth greater than fifty feet, in this portion of the Livermore area. The suspected direction of groundwater flow is to the southwest.

### 3.4 Asbestos and Lead Based Paints

An inspection was made of the property for asbestos related health hazards. Building materials that contain asbestos in a friable condition can pose a health hazard. Friable asbestos sources were not observed. However, if the structures

were to be demolished, potential asbestos containing building materials, such as the flooring and ceiling tiles and roofing material, would have to be tested for asbestos and possibly removed by a licensed asbestos removal contractor. Some sheet rock wall materials naturally contain asbestos and would also have to be considered during a demolition.

The building located on the subject property was constructed prior to the lead-based paint ban of 1978. An inspection indicated that portions of the structures have been painted since the ban and was in good repair.

### **3.5 Wells**

Water wells were not observed during the inspection. Drinking water is supplied by Public Utilities.

No Oil or Gas wells have been recorded within one half mile of the subject property.

### **3.6 Chemical Usage**

Chemical usage was not observed on the subject property.

Historical use of hazardous materials, other than the former gasoline service station, on the subject property was not disclosed during this audit.

### **3.7 Description of Disposal Practices**

No evidence of historical hazardous waste disposal was disclosed during this assessment. No indication of dumping or landfilling of hazardous waste was observed in the aerial photos or during the inspection of the property.

### **3.8 Underground Fuel Tanks**

Evidence of underground fuel tanks having been present on the subject property was disclosed in the photo and city directory review. Fire department, Assessor's, public works department and health department records were reviewed with no indication of any underground storage tanks having been located on the property. However, the property owner has disclosed that a fuel service station was present on the parcel and sold gasoline from the depression era to the beginning of World

War II and from the end of World War II to the late 1950's. He also indicated that a Chevron Service Station was present on the adjacent parcel in the 1960's.

### 3.9 PCB's

Incidents involving PCB's on the subject property were not disclosed during this assessment. An electrical transformer is located on the east side of the building and may contain PCB. Fluorescent lighting in the building could also contain PCB oils.

### 3.10 Radon

Radon is not suspected to be present in the Alameda County area and tests were not conducted. EPA and the California Department of Health Services have tested for Radon in this area and have found no evidence of levels exceeding health standards. In parts of the country where Radon is of concern it usually only involves structures with basements.

### 3.11 Land Filling

There are no listed landfills or abandoned landfills on or near the subject site. No indication of significant dumping of waste or landfilling was observed in the aerial photos or during the inspection of the property. The surface land of the subject property is paved.

## 4.0 REGULATORY RECORDS AUDIT

The following is a list of documents reviewed for the subject property and surrounding vicinity within a one (1) mile radius:

CERCLIS	EPA Superfund
NPL	EPA National Priority List
LIENS	Federal Superfund Liens
SWIS	Solid Waste Information System List
RCRA	EPA Hazardous Waste Generators
LUST	CWRCB Underground Leaking Tanks
CORTESE	CWMB, WRCB, CDHS, Hazardous Waste Substance Sites
TANNER	CDHS Hazardous Waste Generators & Disposal Data
BOP	CDHS - California Bond Expenditure Plan

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ASPIS            CDHS - Abandoned Site Program

The subject property was not found on any of the above lists. The nearest contamination sites surrounding the property include the former Chevron Station to the east of the subject property. The site was approved for closure in 1997. Other nearby sites include the following:

Site:            CHEVRON  
Address:        1334 1ST ST  
City:            LIVERMORE  
Map Loc:       2 - within 1/4 mile NW of the subject  
Status:         9 - Case Closed.

A release, caused by overfilling, from a tank, of Waste oil was reported on 03/22/94. It was discovered during tank closure, and stopped on 03/11/94 by closing the tank. No remedial action has yet been taken at the site. The case, 01-0321, is managed by a Local agency, and was last reviewed on 03/17/94.

- The case was closed 06/23/97.

REQ. CASE CLOSURE 02/26/97..CASE CLOSED 7/97

Site:            BEACON  
Address:        1619 1ST ST  
City:            LIVERMORE  
Map Loc:       20 - within 1/4 mile E of the subject  
Status:         5C - Pollution characterization.

A release from a tank, of Waste oil was reported on 03/16/90. It was discovered during tank closure, and stopped on 03/16/90 by closing the tank. The contaminated soil has been excavated and disposed in an approved site. The case, 01-1527, is managed by a Local agency, and was last reviewed on 03/16/90.

- The leak was confirmed on 04/27/92.
- Preliminary Site Assessment work plan was submitted on 06/01/93.
- Pollution characterization was started on 05/19/95.

POSSIBLY BEACON IS AN OFFSITE SOURCE FOR LIVERMORE ARCADE; LOP UPDATE-10/21/93

Site:            K MART  
Address:        1122 E STANLEY BLVD  
City:            LIVERMORE  
Map Loc:       21 - within 1/4 mile W of the subject  
Status:         3B - Prelim Site Assessment underway.

A release from a tank, of Waste oil was reported on 11/01/90. It was discovered during tank closure, and stopped on 11/01/90 by closing the tank. No remedial action has yet been taken at the site. The case, 01-0835, is managed by a Local agency, and was last reviewed on 11/01/90.

- Preliminary Site Assessment was started on 07/23/90.

.12/26 RF RPTS

Site:            LIVERMORE ARCADE SITE  
Address:        1ST & P ST  
City:            LIVERMORE  
Map Loc:       13 - within 1/4 mile E of the subject  
Status:         id: 01530002 060894 RETAIL - GENERAL MERCHANDISE STORES

Contaminants: HALOGENATED SOLVENTS, CONTAMINATED SOIL

Actions:

PRELIMINARY ENDANGERMENT ASSESSMENT - completed on 06/25/93

The Livermore Arcade site is a shopping center occupying approximately 11.75 acres at the northwest corner of First Street and South P Street in downtown Livermore, CA. Twelve retail stores and two restaurants occupy the tenant spaces at the site. Site investigation conducted in October 1990 indicated that one of the tenants, Mike's One Hour Cleaners, has been identified as the source of soil and groundwater contamination. Available information indicates that the principal contaminant, tetrachloro-ethylene (PCE), was routinely discharged into the floor drain which leads to a broken 4" diameter sewer line. The practice is reported to predate Mike's operation. PCE was dissolved in the soil by constant water flow through the sewer line. The dissolved PCE ultimately entered the groundwater spreading in the direction of groundwater movement (to the north). Groundwater monitoring was then initiated under the supervision of the Alameda County and SF Regional Water Quality Control Board. Potential exposure pathways were evaluated and the possibility of PCE impacting the drinking water aquifers used by the city of Livermore was noted. PCE as high as 1,300 ppb was detected in groundwater samples. A remedial plan/preliminary remedial design is currently underway with the RWQCB acting as lead agency. SFRWQCB has issued a Tentative Site Clean-Up Order (SCO) on June 23, 1993 w/c includes DTSC's review of the Baseline Health Risk Assessment. A pilot study is being conducted which included construction of a vapor extraction treatment unit in the service area behind the Arcade. Groundwater monitoring is ongoing. (04/22/93)

Only one of these sites, the Livermore Arcade Site may pose a threat to the groundwater under the subject property which is down gradient from the dry cleaners property. However, a cleanup of the groundwater under the shopping center appears to be underway. A detailed report of all the facilities on the above lists can be found in Appendix C.

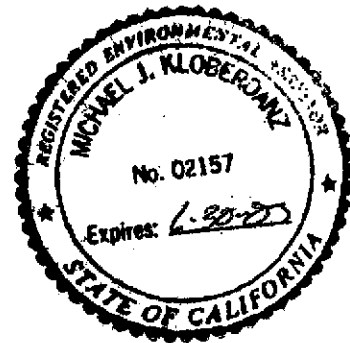
## 5.0 CONCLUSIONS

The subject property appears to have had a small house and garage with gasoline sales up to the late 1950's when gasoline sales were discontinued and a Chevron Station built next door. The house and garage were demolished in 1972 for construction of a Sambo's Restaurant. Other restaurants have occupied the building in recent years. The subject property did not appear on any contaminated site lists and may not warrant further investigation. However, the condition of the soil and groundwater as a result of the former gasoline station and/or a nearby dry cleaner, referred to as the Livermore Arcade Site, cannot be guaranteed free of contaminants. The buyer may wish to consider a Phase II Environmental Assessment in order to collect soil and groundwater samples.

The above represents our best professional opinion as to environmental conditions at this site. These opinions were derived using data at hand, and standards of care common to the environmental consulting community in Northern California. Neither soil or groundwater was sampled during this investigation, and M.J. Kloberdanz & Associates can make no claim as to the condition of the soil or groundwater at this site. There is the possibility that even with proper application of the above methodologies, there may exist on the subject property conditions that could not be identified within the scope of this

assessment or which were not reasonably identifiable from the available information. The methodologies included in this report are not intended to produce all inclusive or comprehensive results, but rather to provide the client with information regarding apparent suspicions of existing and potential adverse environmental conditions relating to the subject property. Additional work at this site may generate data that could lead to a change of opinion regarding conditions or appropriate remediation procedures or both.

Prepared by:



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Michael J. Kloberdanz, REA, REHS  
California Registered Environmental Assessor #02157  
California Registered Environmental Health Specialist #4783

## INFORMATION SOURCES

Historical Data	Livermore Public Library 1110 South Livermore Avenue, Livermore, California
	Carnegie Museum 4 <sup>th</sup> & K Street, Livermore, California
Fire Department Files	Livermore Fire Department- 4550 East Avenue, Livermore, California
Hazardous Materials Files	Alameda Environmental Health Department-Sonya 1131 Harbor Bay Parkway, Alameda, California
Oil & Gas Records	Provided by BBL, Inc. 444 S. Cedros Avenue, #200, Solana Beach, California
Aerial Photographs	Provided by BBL, Inc. 444 S. Cedros Avenue, #200, Solana Beach, California
Historical Records	Livermore Public Works Department- 1100 South Livermore Avenue, Livermore, California

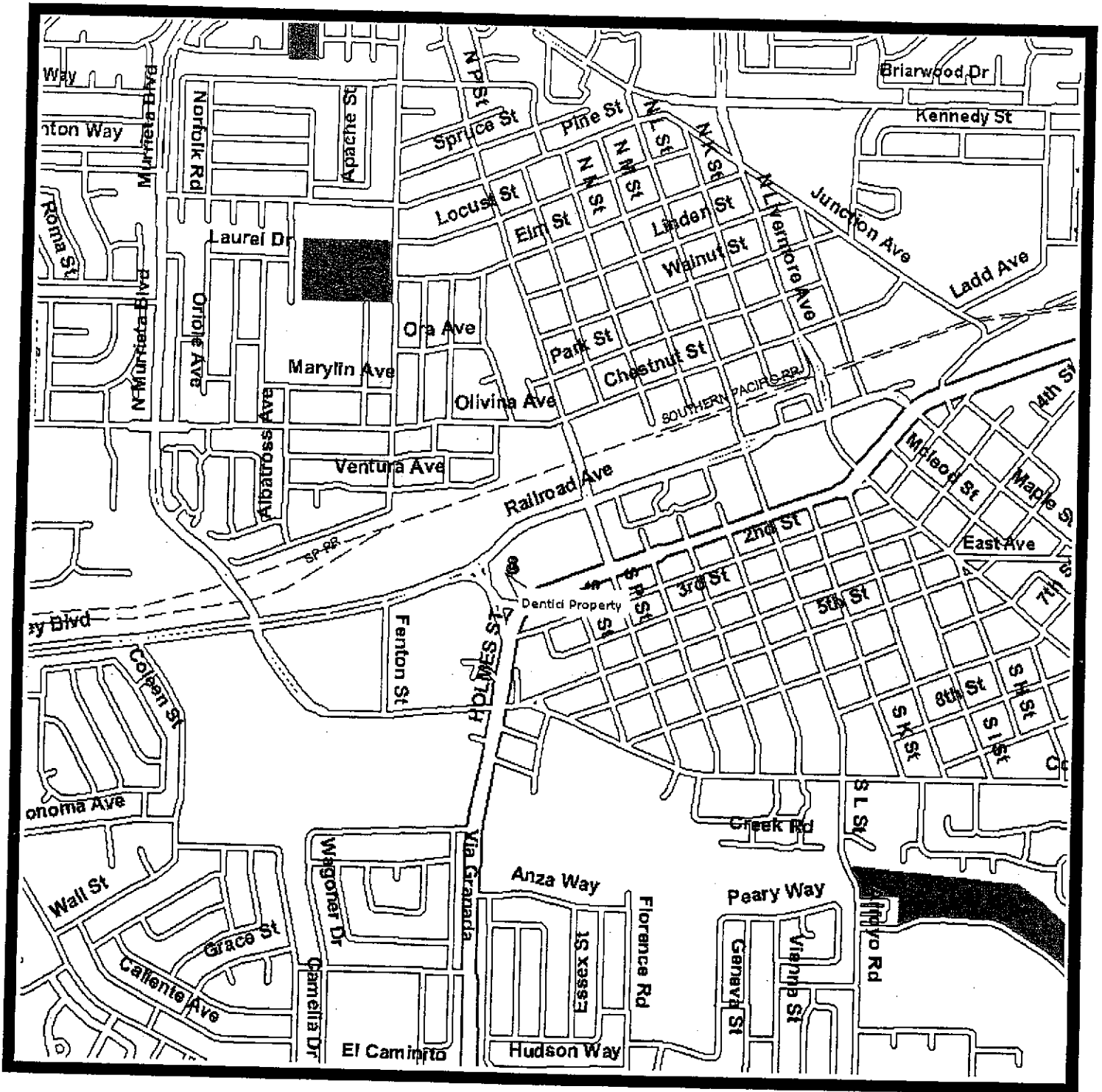


Figure 1  
Vicinity Map



# **Appendix A**

## **Maps**

ASSESSOR'S MAP 98

Code Area Nos. 16-023

403

Scale: 1" = 100'

- (A) P.M. 1226 84/36 (D) RCHO. VALLE DE SAN JOSE AP/197
- (B) P.M. 1017 76/70 (F) P.M. 6871 223/33
- (C) TOWN OF LIVERMORE 5/9

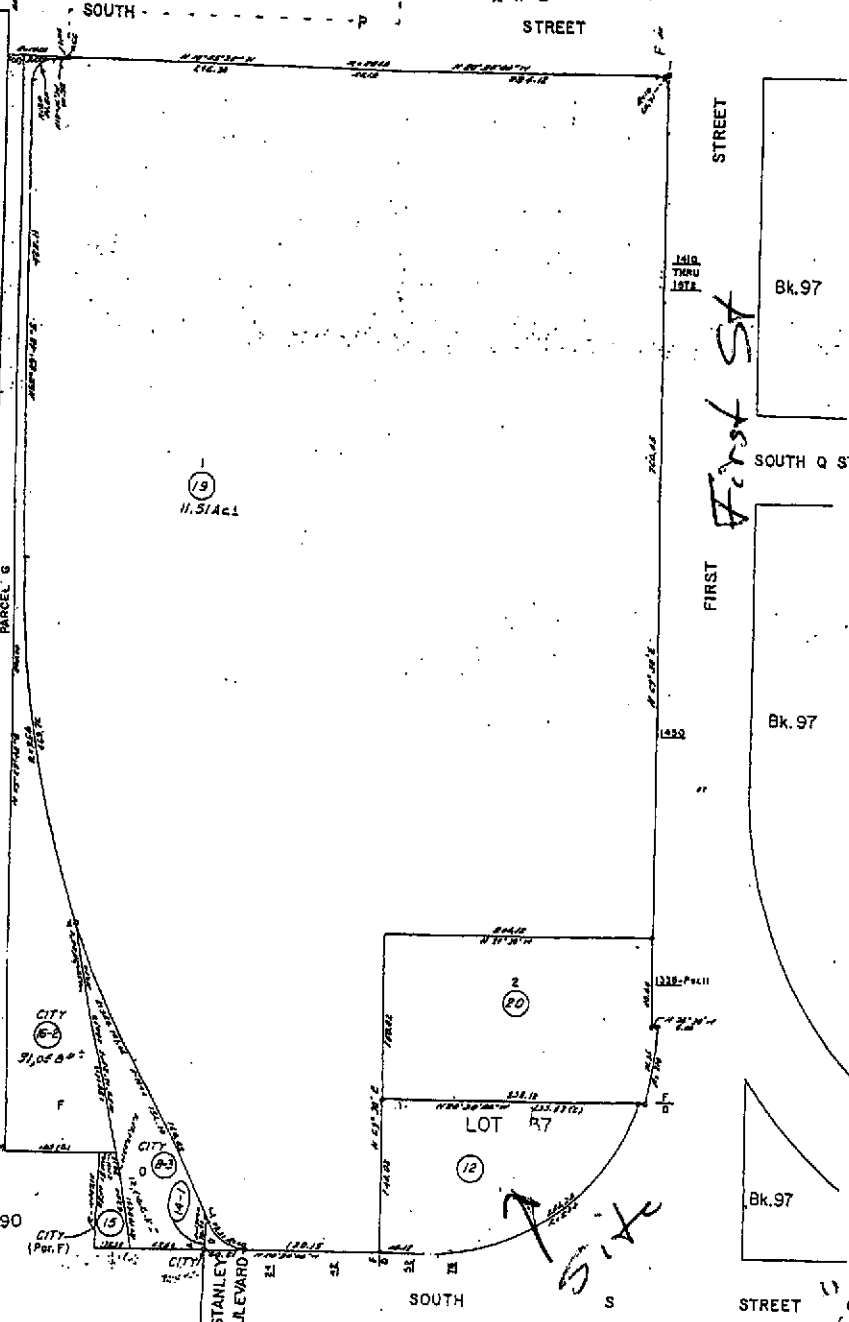
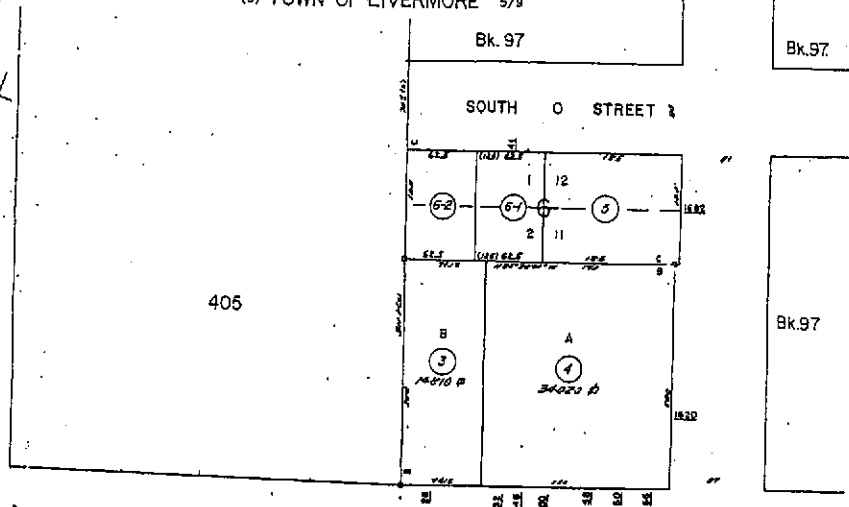
3-11-86CSL  
5-1-90JT  
11-26-90JT  
12-18-96CSL

3-21-83.RG  
8-21-85CSL




















7-7-FRM  
7-2-81ST  
7-2-84.PB.

Drawn 8-11-75 U.P.R. Revised 4-7-79

Formerly Bk. 97 Pgs. 6, 7, 9, 4, Bk. 98 Par. Pg. 289



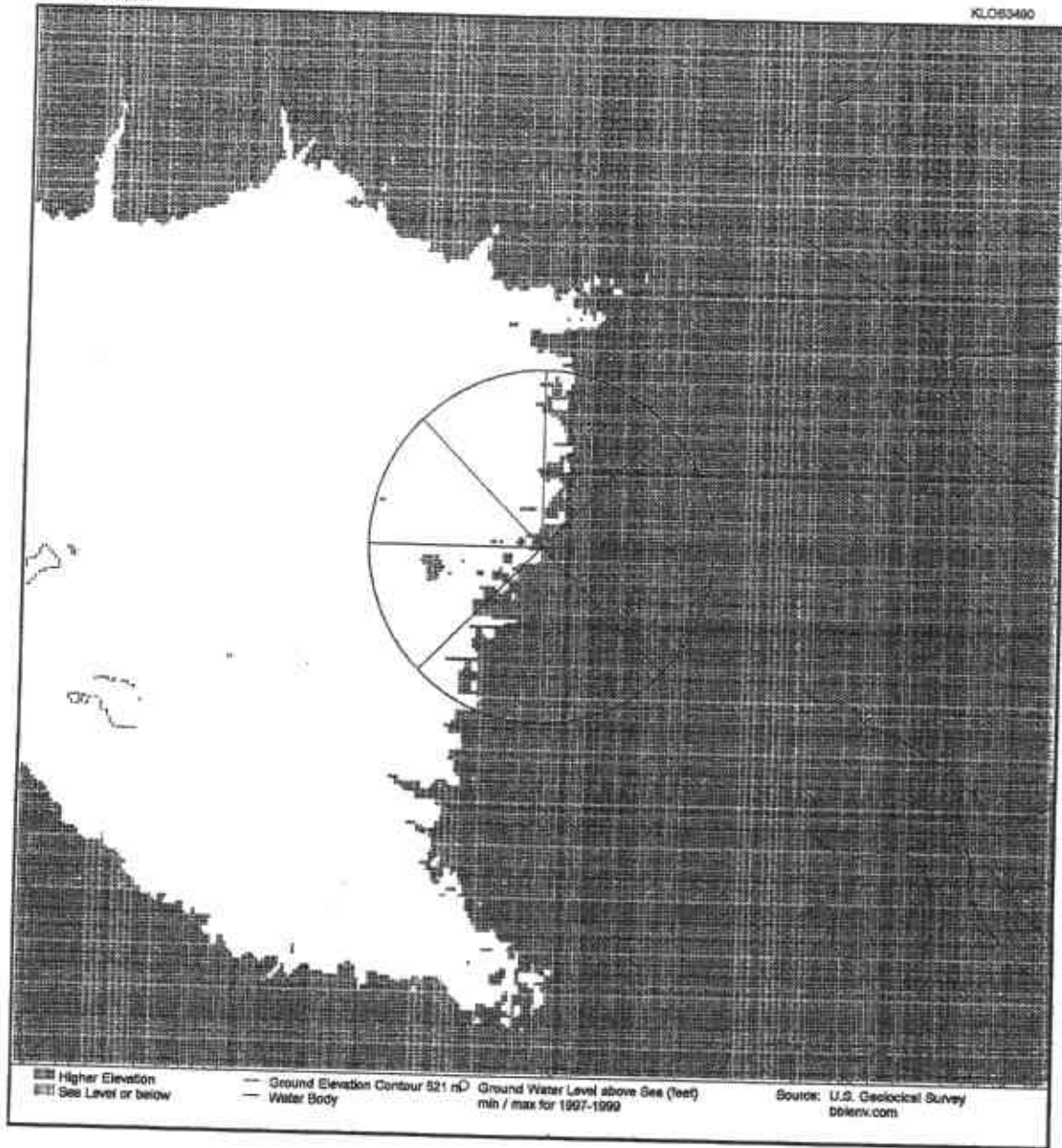
NO WELLS WERE FOUND WITHIN 1/4 MILE OF THE SUBJECT SITE

- |   |                                  |  |                             |
|---|----------------------------------|--|-----------------------------|
|          | DRILLING                         |         | COMPLETED - GAS             |
|          | DRILLING - IDLE                  |         | IDLE - GAS                  |
|          | BURIED - IDLE                    |         | BURIED - IDLE GAS           |
|          | PLUGGED AND ABANDONED - DRY HOLE |         | PLUGGED AND ABANDONED - GAS |
| 80-4129  | year drilled and depth           |         | COMPLETED - WATER SOURCE    |
|          | OBSERVATION                      |         | COMPLETED - WATER DISPOSAL  |
|          | COMPLETED - OIL                  |         | COMPLETED - WATERFLOOD      |
|          | IDLE - OIL                       |         | COMPLETED - STEAMFLOOD      |
|          | BURIED IDLE - OIL                | Source  |                             |
|          | PLUGGED AND ABANDONED - OIL      | 03S/02E-17AXX M  |                             |

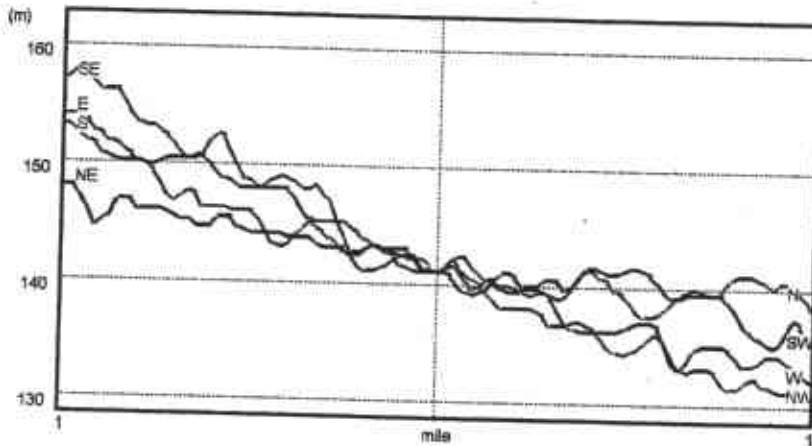
3.0 inches to 1 mile



OIL & GAS WELLS IN THE VICINITY OF THE SUBJECT SITE LOCATED AT 1304 1ST ST, LIVERMORE

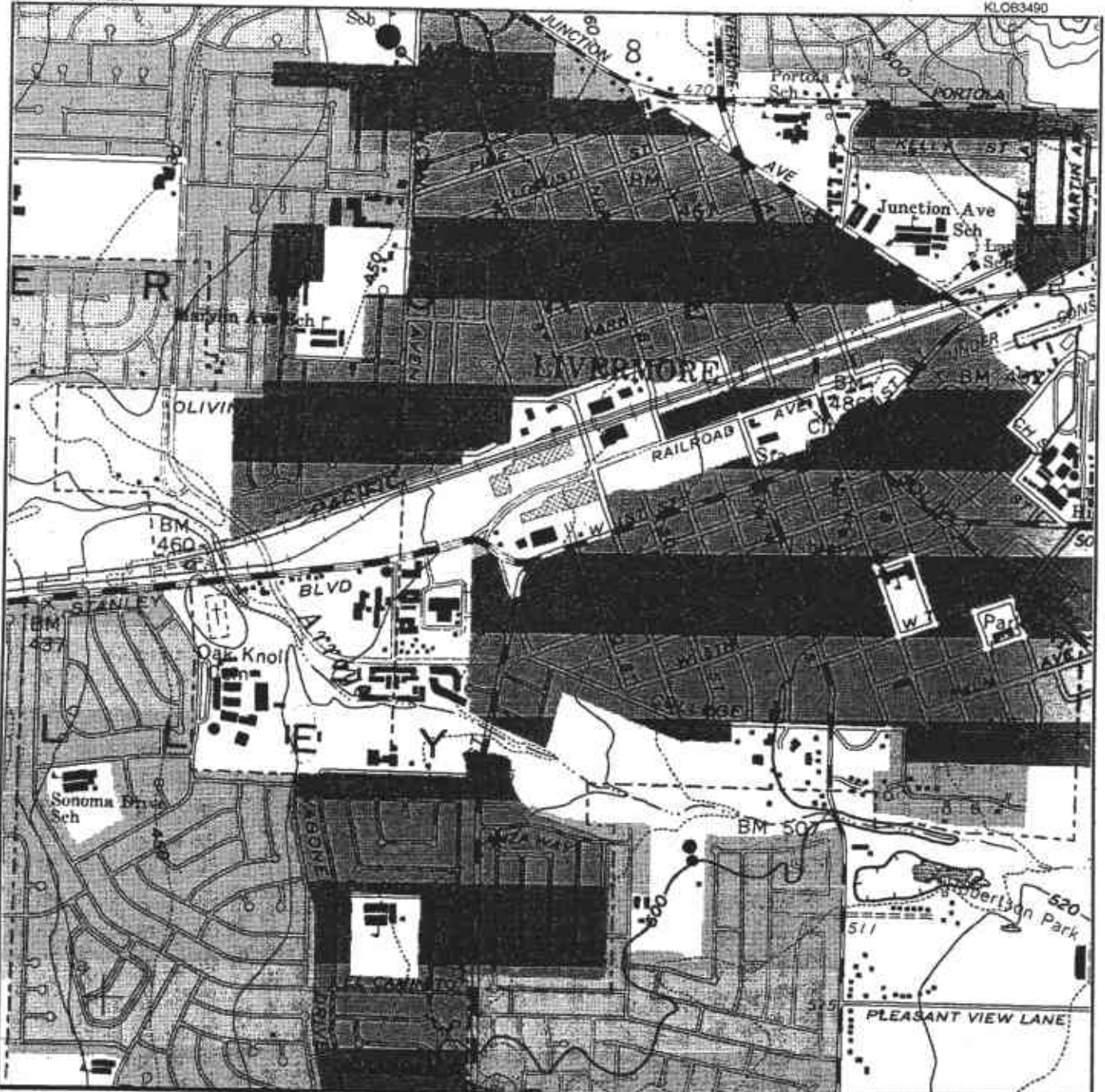


Elevation Contour overview map (6x6 mile)



Elevation Profiles (±1 mile)

CONTOUR DATA IN THE VICINITY OF THE SUBJECT SITE LOCATED AT  
 1304 1ST ST LIVERMORE



longitude: -121 48' 37.6"  
 latitude: 37 40' 43.8"  
 utm easting: 607835 meters  
 utm northing: 4170685 meters  
 utm zone: NAD 10  
 township: 03S/02E-17

1.8 inches to 1/2 mile  
 Universal Transverse Mercator North is straight up

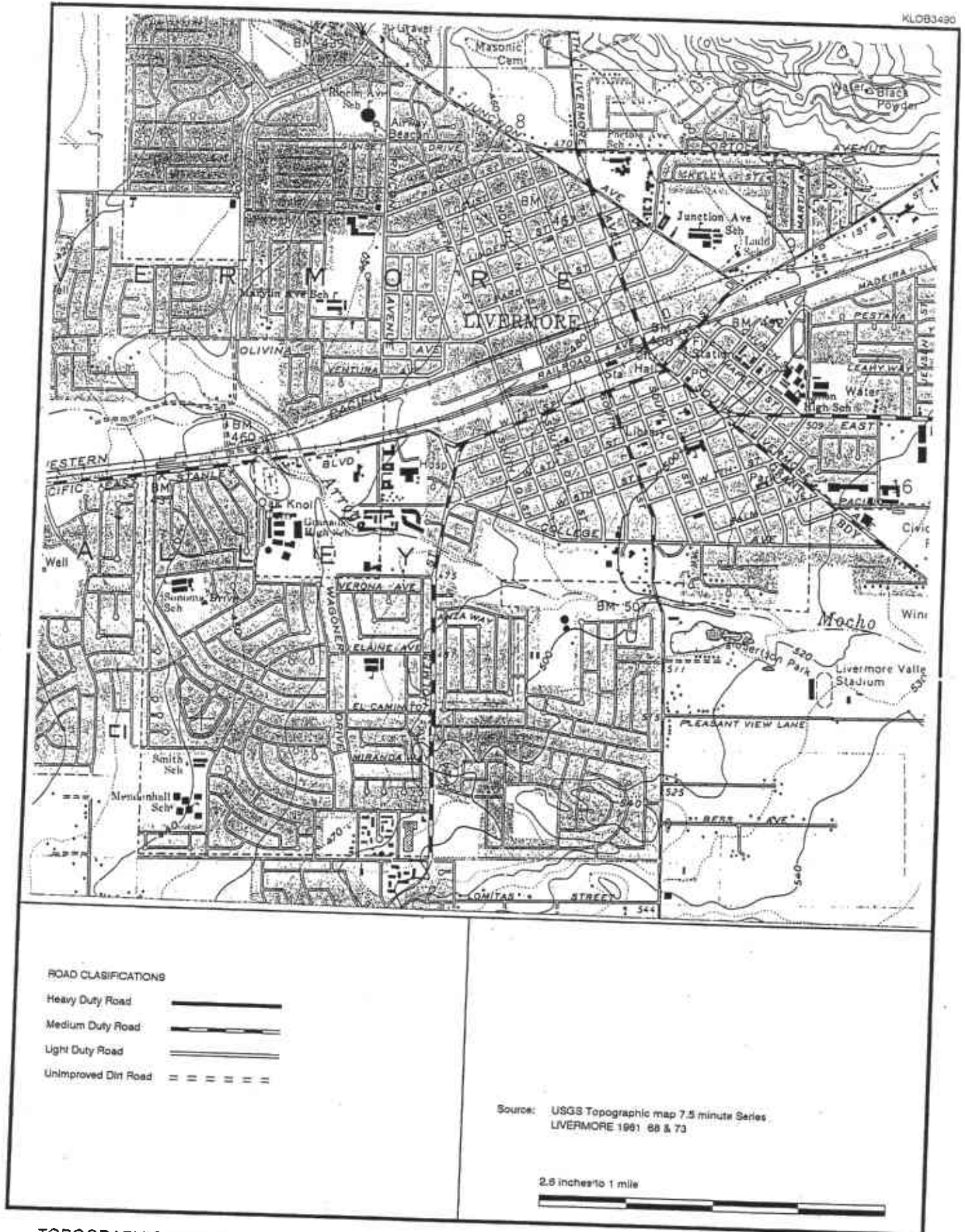
**AREA RADON ESTIMATES**

ALAMEDA County (80 sites tested)

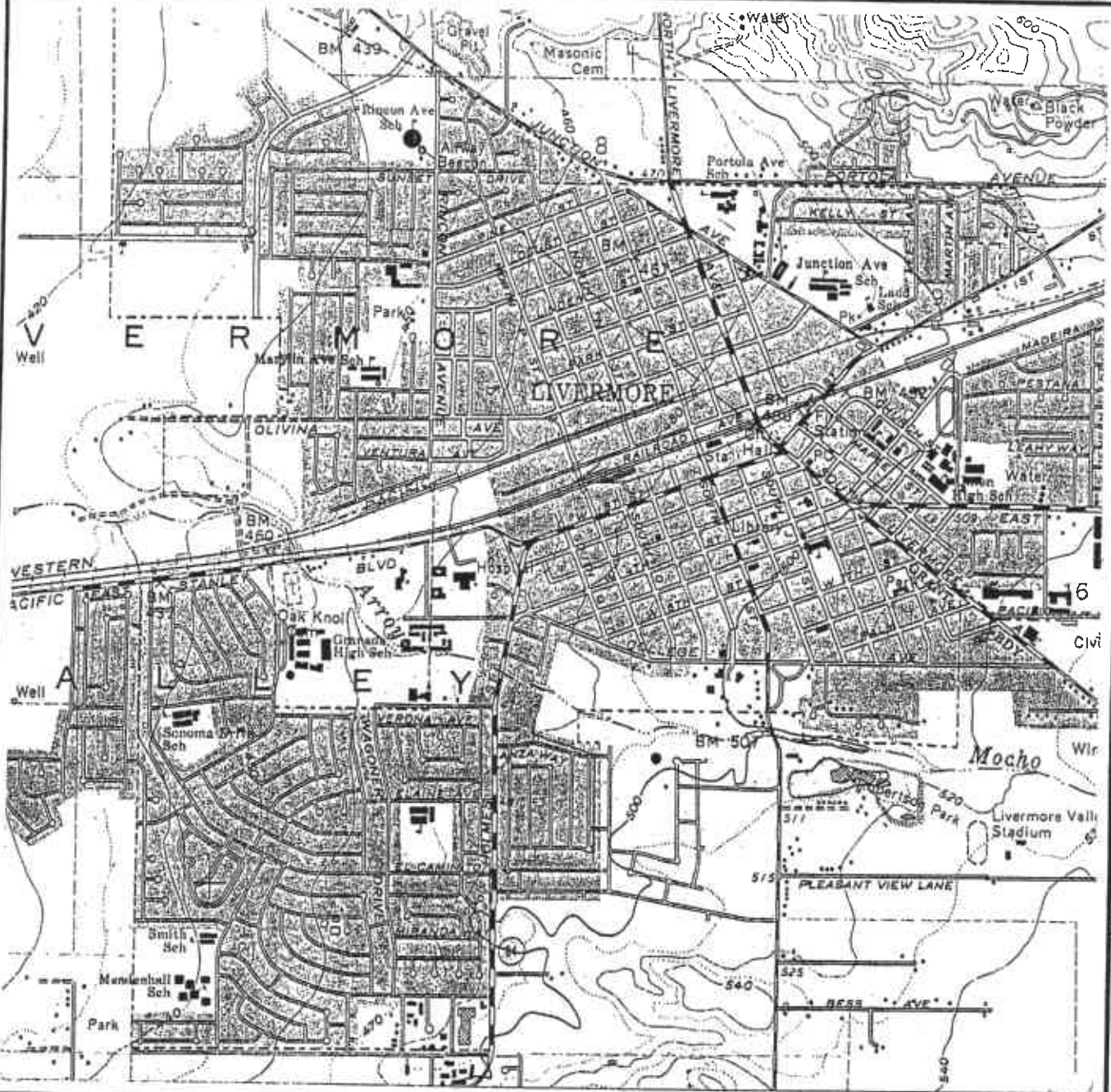
<2 pCi/L	90.0%
2-4 pCi/L	10.0%
4-8 pCi/L	0.0%
4-8 pCi/L	0.0%
8-20 pCi/L	0.0%
20 > pCi/L	0.0%

SOURCE:  
 U.S. Dept of Interior, Geological Survey  
 LIVERMORE (1961-1980)





TOPOGRAPHIC MAP OF THE VICINITY OF THE SUBJECT SITE LOCATED AT 1304 1ST ST. LIVERMORE



TOPOGRAPHIC MAP OF THE VICINITY OF THE SUBJECT SITE LOCATED AT 1304 1ST ST, LIVERMORE



ROAD CLASSIFICATIONS

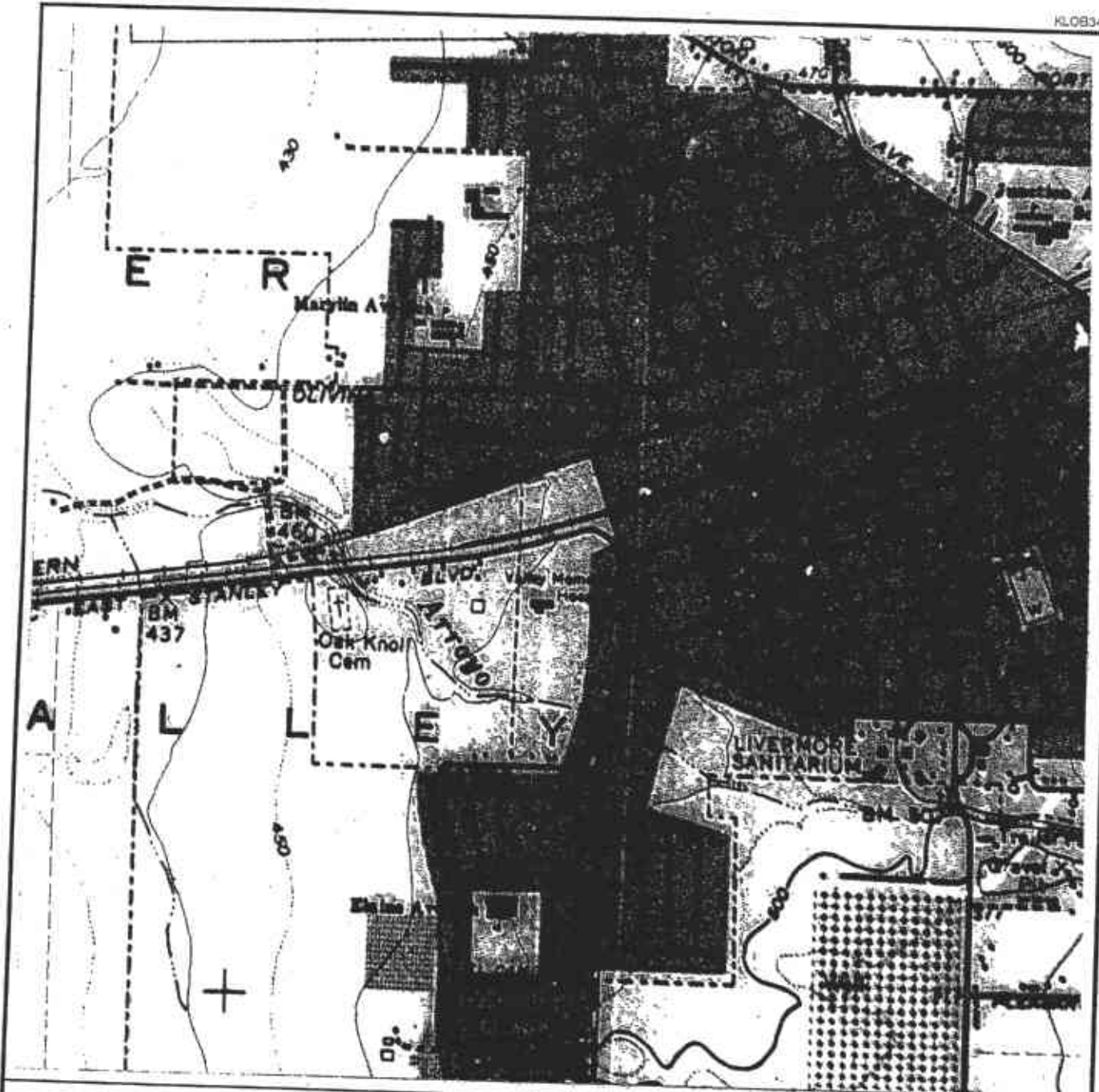
- Heavy Duty Road 
- Medium Duty Road 
- Light Duty Road 
- Unimproved Dirt Road 

Source: USGS Topographic map 7.5 minute Series LIVERMORE 1961 & 68

2.6 inches to 1 mile



TOPOGRAPHIC MAP OF THE VICINITY OF THE SUBJECT SITE LOCATED AT 1304 1ST ST, LIVERMORE



ROAD CLASSIFICATIONS

Heavy Duty Road	—————
Medium Duty Road	——— ———
Light Duty Road	——— ——— ———
Unimproved Dirt Road	====

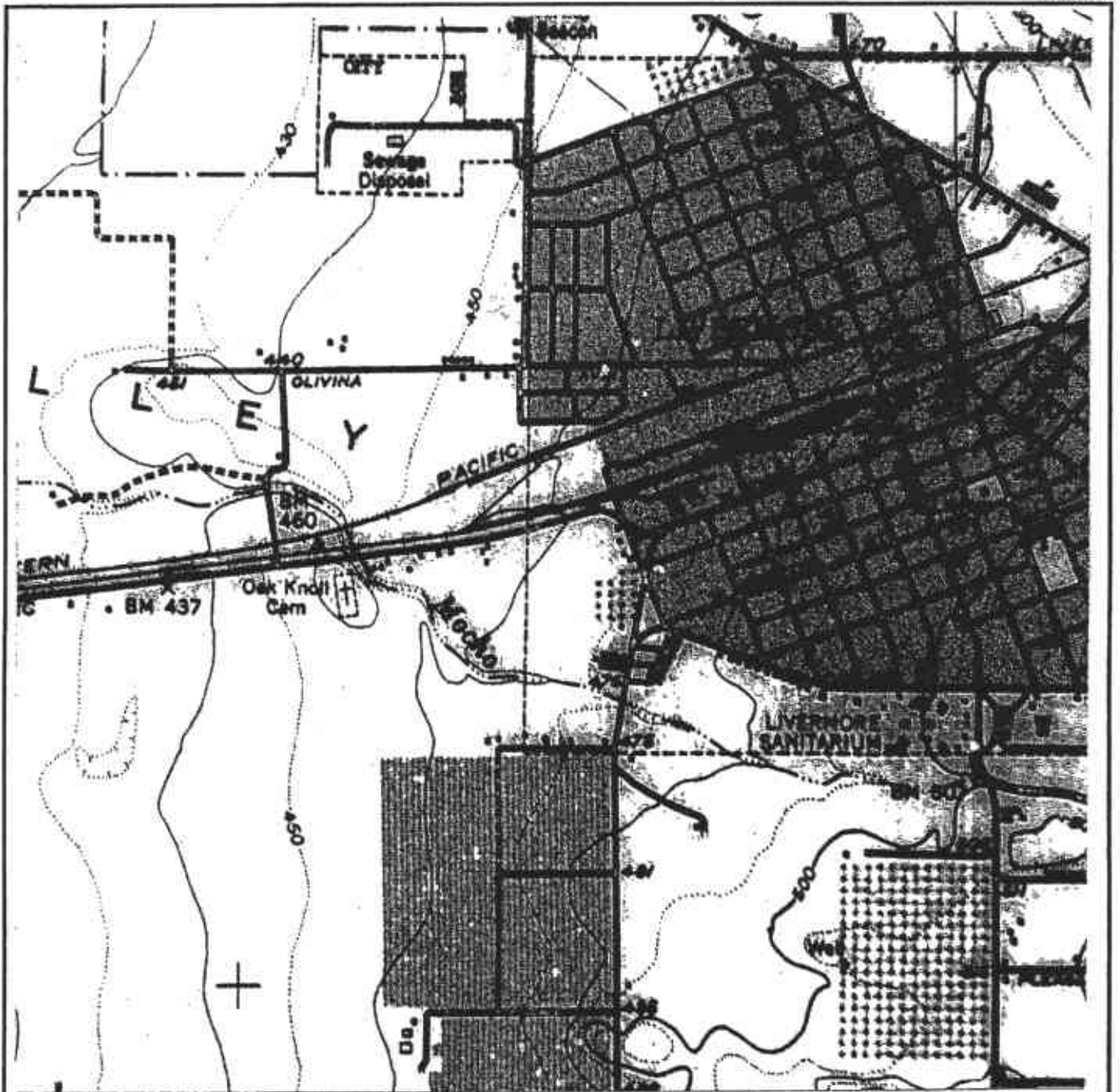
Source: USGS Topographic map 7.5 minute Series  
LIVERMORE 1981

2.5 inches to 1 mile







TOPOGRAPHIC MAP OF THE VICINITY OF THE SUBJECT SITE LOCATED AT  
1304 1ST ST, LIVERMORE





ROAD CLASSIFICATIONS

- Heavy Duty Road 
- Medium Duty Road 
- Light Duty Road 
- Unimproved Dirt Road 

Source: USGS Topographic map 7.5 minute Series LIVERMORE 1953

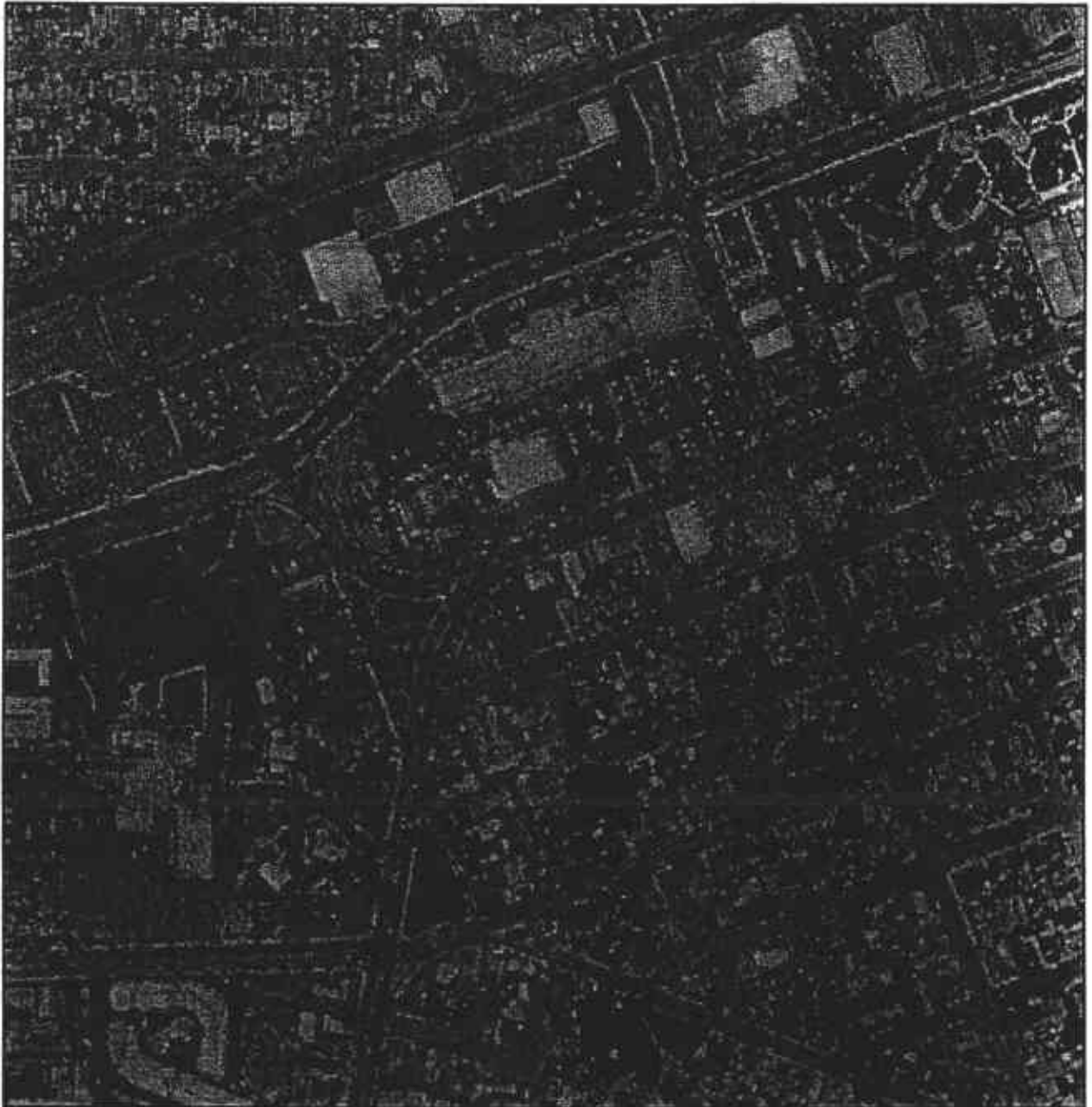
2.8 inches to 1 mile



TOPOGRAPHIC MAP OF THE VICINITY OF THE SUBJECT SITE LOCATED AT 1304 1ST ST, LIVERMORE

# **Appendix B**

## **Aerial Photographs**



Longitude: -121° 46' 37.6"  
Latitude: 37° 40' 43.9"

UTM Easting: 607835 meters  
UTM Northing: 4170685 meters  
UTM Zone: NAD 10

County: ALAMEDA

Project: NAPP 6354 218  
Quadrangle: LIVERMORE SE  
Date: 1993 06 12 source Imag  
Film Type: "BLACK AND WHITE FILM"

Scale: 1 inch to 400 feet



UTM North is straight up

Source: U.S. Dept of Interior, Geological Survey

**AERIAL PHOTOGRAPH OF THE VICINITY OF THE SUBJECT SITE LOCATED AT  
1304 1ST ST, LIVERMORE**



Longitude: -121° 46' 37.6"  
Latitude: 37° 40' 43.9"

UTM Easting: 607835 meters  
UTM Northing: 4170685 meters  
UTM Zone: NAD 10

County: ALAMEDA

Project: HAP 82 228-58  
Quadrangle:  
Date: 07/05/82  
Film Type: Black & White

Scale: 1 inch to 800 feet



Source: U.S. Dept of Interior, Geological Survey

AERIAL PHOTOGRAPH OF THE VICINITY OF THE SUBJECT SITE LOCATED AT  
1304 1ST ST, LIVERMORE



Longitude: -121° 46' 37.6"  
Latitude: 37° 40' 43.9"

UTM Easting: 607835 meters  
UTM Northing: 4170885 meters  
UTM Zone: NAD 10

County: ALAMEDA

Project: VCM1 1-189  
Quadrangle:  
Date: 04/24/70  
Film Type: Black & White

Scale: 1 inch to 800 feet



Source: U.S. Dept of Interior, Geological Survey .

**AERIAL PHOTOGRAPH OF THE VICINITY OF THE SUBJECT SITE LOCATED AT  
1304 1ST ST, LIVERMORE**



Longitude: -121° 46' 37.6"  
Latitude: 37° 40' 43.9"

UTM Easting: 607835 meters  
UTM Northing: 4170685 meters  
UTM Zone: NAD 10

County: ALAMEDA

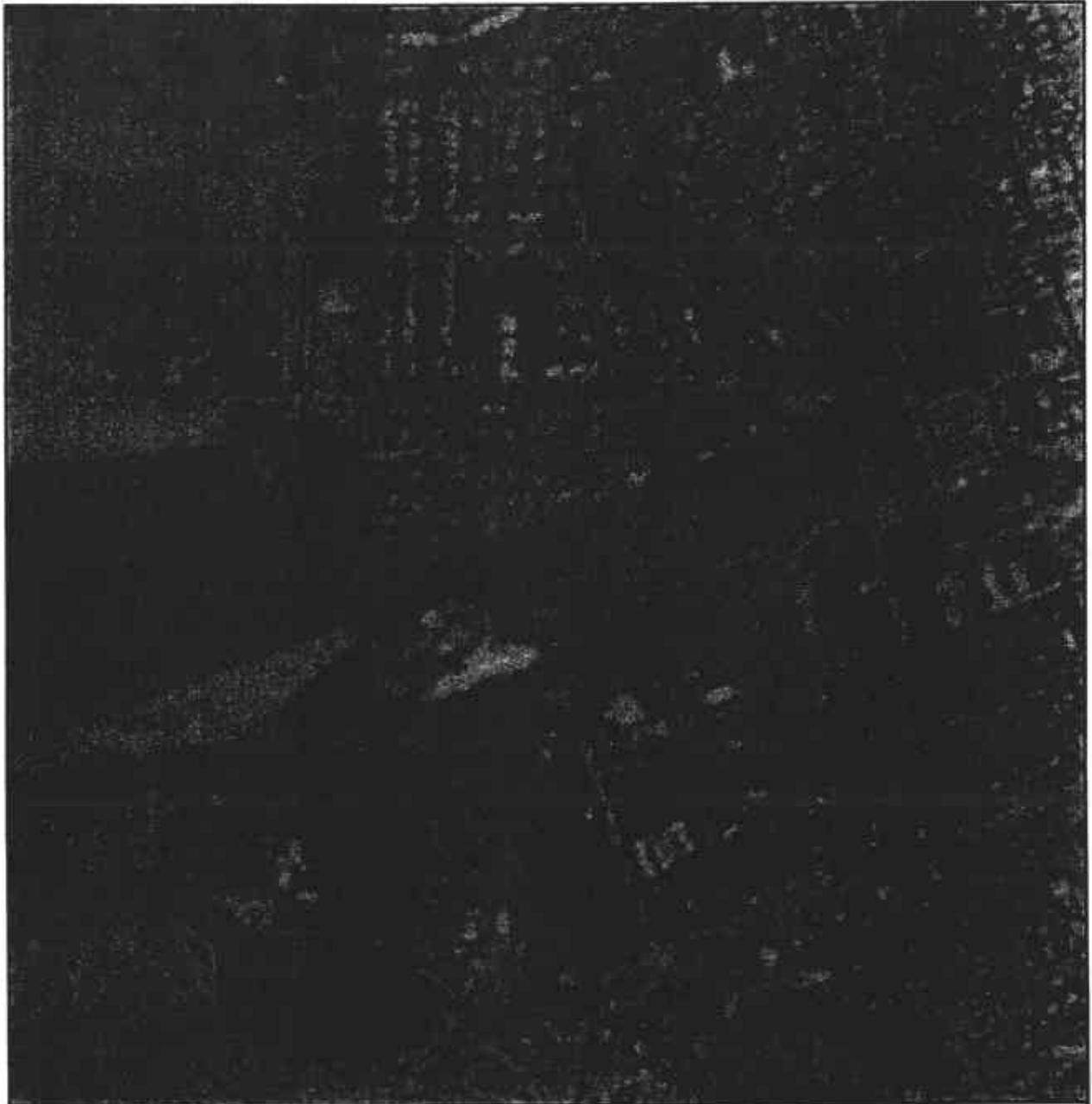
Project: VACY 1-23  
Quadrangle:  
Date: 07/07/60  
Film Type: Black & White

Scale: 1 Inch to 500 feet



Source: U.S. Dept of Interior, Geological Survey

AERIAL PHOTOGRAPH OF THE VICINITY OF THE SUBJECT SITE LOCATED AT  
1304 1ST ST, LIVERMORE



Longitude: -121° 46' 37.6"  
Latitude: 37° 40' 43.9"

UTM Easting: 607835 meters  
UTM Northing: 4170685 meters  
UTM Zone: NAD 10

County: ALAMEDA

Project: AMS 45 4275  
Quadrangle:  
Date: 09/24/54  
Film Type: Black & White

Scale: 1 inch to 800 feet



Source: U.S. Dept of Interior, Geological Survey

**AERIAL PHOTOGRAPH OF THE VICINITY OF THE SUBJECT SITE LOCATED AT  
1304 1ST ST, LIVERMORE**



Longitude: -121° 46' 37.6"  
Latitude: 37° 40' 43.9"

UTM Easting: 607835 meters  
UTM Northing: 4170685 meters  
UTM Zone: NAD 10

County: ALAMEDA

Project: JL 2-32  
Quadrangle:  
Date: 10/13/49  
Film Type: Black & White

Scale: 1 Inch to 500 feet



Source: U.S. Dept of Interior, Geological Survey

AERIAL PHOTOGRAPH OF THE VICINITY OF THE SUBJECT SITE LOCATED AT  
1304 1ST ST, LIVERMORE



# **Appendix C**

## **Environmental Records Search**

# ENVIRONMENTAL RECORD SEARCH

for the site

DENTICI PROPERTY  
1304 1ST ST, LIVERMORE CA

performed for

MJ KLOBERDANZ & ASSOCIATES

04-02-2003

## INTRODUCTION

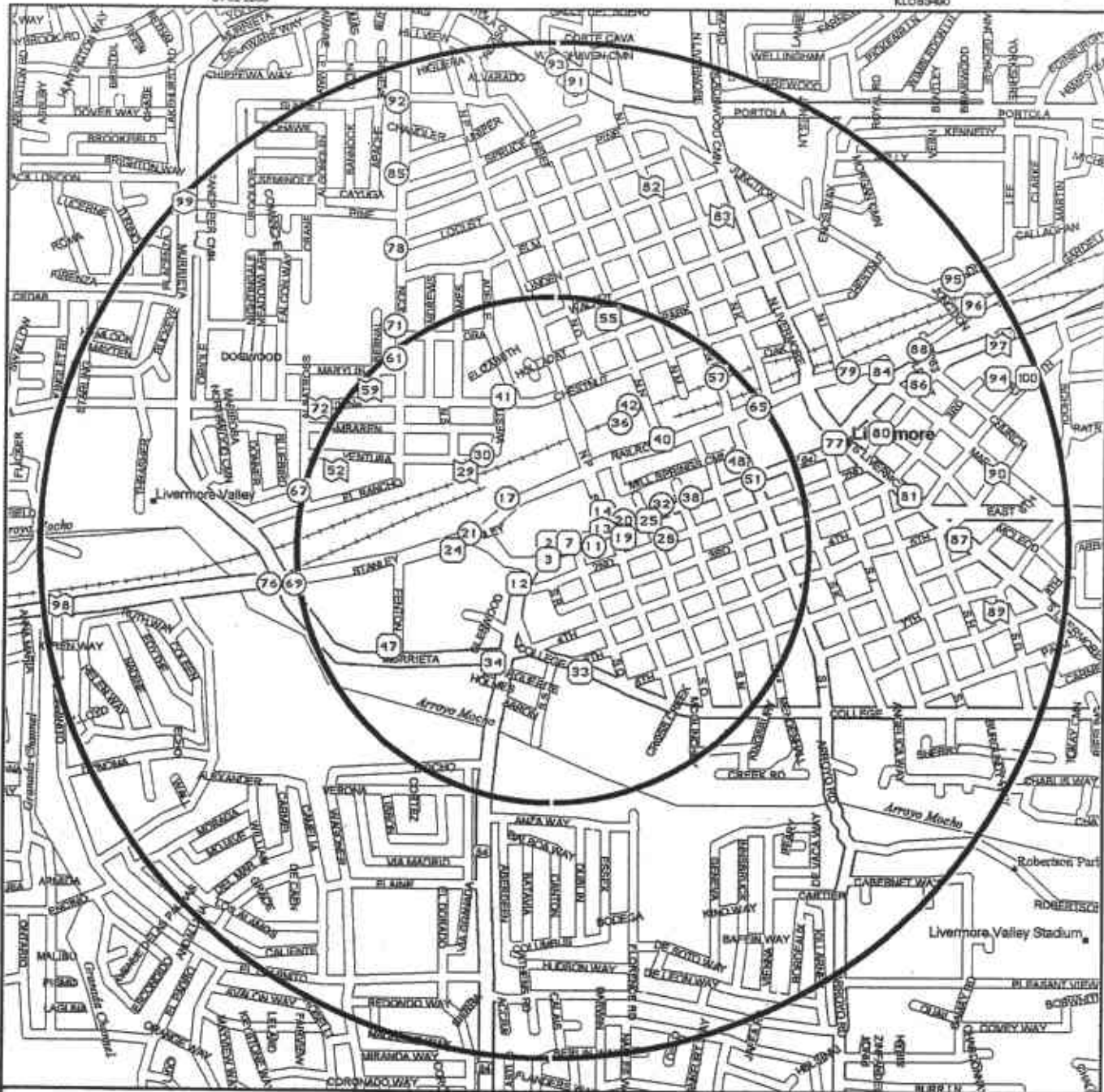
This document, prepared on the request of MJ KLOBERDANZ & ASSOCIATES, reports the findings of BBL's investigation of environmental concerns in the vicinity of 1304 1st St, Livermore CA. It is divided in the following segments:

- **Map** - showing the location of the identified sites relative to the subject site.
- **Topographic Map** - showing the surrounding area of the subject site.
- **Dept of Oil & Gas Field Map** - showing the surrounding area of the subject site.
- **Summary** - listing the identified sites by street names.
- **Final Report** - describing the sources investigated and the resulting findings:

Environmental Concerns	Page	Search Dist.	Sites	< 1/4	1/4 - 1/2	1/2 - 1/3	area	un- kw	total
National Priority List	1	1 mile							
CERCLIS	1	1 mile	1			1			2
NFRAP	2	1 mile		1		1			2
Federal Facilities	2	1 mile							
Emergency Response Notification System	2	1/2 mile		4	5			1	10
Hazardous Material Incident Report System	5	subject							
Site Enforcement Tracking System	5	1 mile						1	1
Enforcement Docket (DOCKET/CEETS)	5	1/2 mile	1						1
C-Docket	5	1/2 mile							
RCRA Violators List	6	1 mile							
RCRA - TSD Facilities	6	1 mile							
Federal Enforcement Dockets	6	1 mile							
Annual Work Plan	6	1 mile							
CALSITES	7	1 mile	1			1			2
CALSITES - No Further Action	8	1/2 mile	2	2	1			1	6
Cortese	9	1 mile							
Leaking Underground Storage Tanks	10	1 mile	8	4	5	15			32
Solid Waste Information System	18	1 mile							
Well Investigation Program	18	1 mile		1	1	2			4
Drinking Water Program	19	1 mile		1	3	6			10
Toxic Releases	26	1 mile	2	2		2		1	7
Toxic Pits	27	1 mile							
Solid Waste Assessment Test - Regional	28	1 mile							
<b>Environmental Concerns References</b>									
<b>Environmental Concern Sites</b>									
<b>Operating Permits</b>									
RCRA Generators	28	1/2 mile	7	3	6				16
SARA Title III, section 313 (TRIS)	31	1/2 mile							
Nuclear Regulatory Commission Licensees	31	1/2 mile							
PCB Waste Handlers Database	31	1/2 mile							
Permit Compliance System (PCS)	31	1/2 mile							
AIRS Facility System (AFS)	31	1/2 mile							
Section Seven Tracking System	32	1/2 mile							
FIFRA/TSCA tracking system	32	1/2 mile						1	1
Federal Facilities Information System (FFIS)	32	1/2 mile							
Chemicals in Commerce Information System	32	1/2 mile							
FINDS EPA Facility Index System	32	1/2 mile			2				2
Hazardous Waste Information System	33	1/2 mile	20	12	18			1	51
Underground Storage Tanks	43	1/2 mile	5	4	5			1	15
<b>Operating Permits References</b>									
<b>Operating Permits Sites</b>									
<b>Total References</b>			47	34	35	25		7	167
<b>Total Sites</b>			29	24	31	25		7	116

\* The classification by distance takes into consideration physical property sizes by assuming a standard size.

- **Fire Insurance Map** review - describing the area of the subject site.

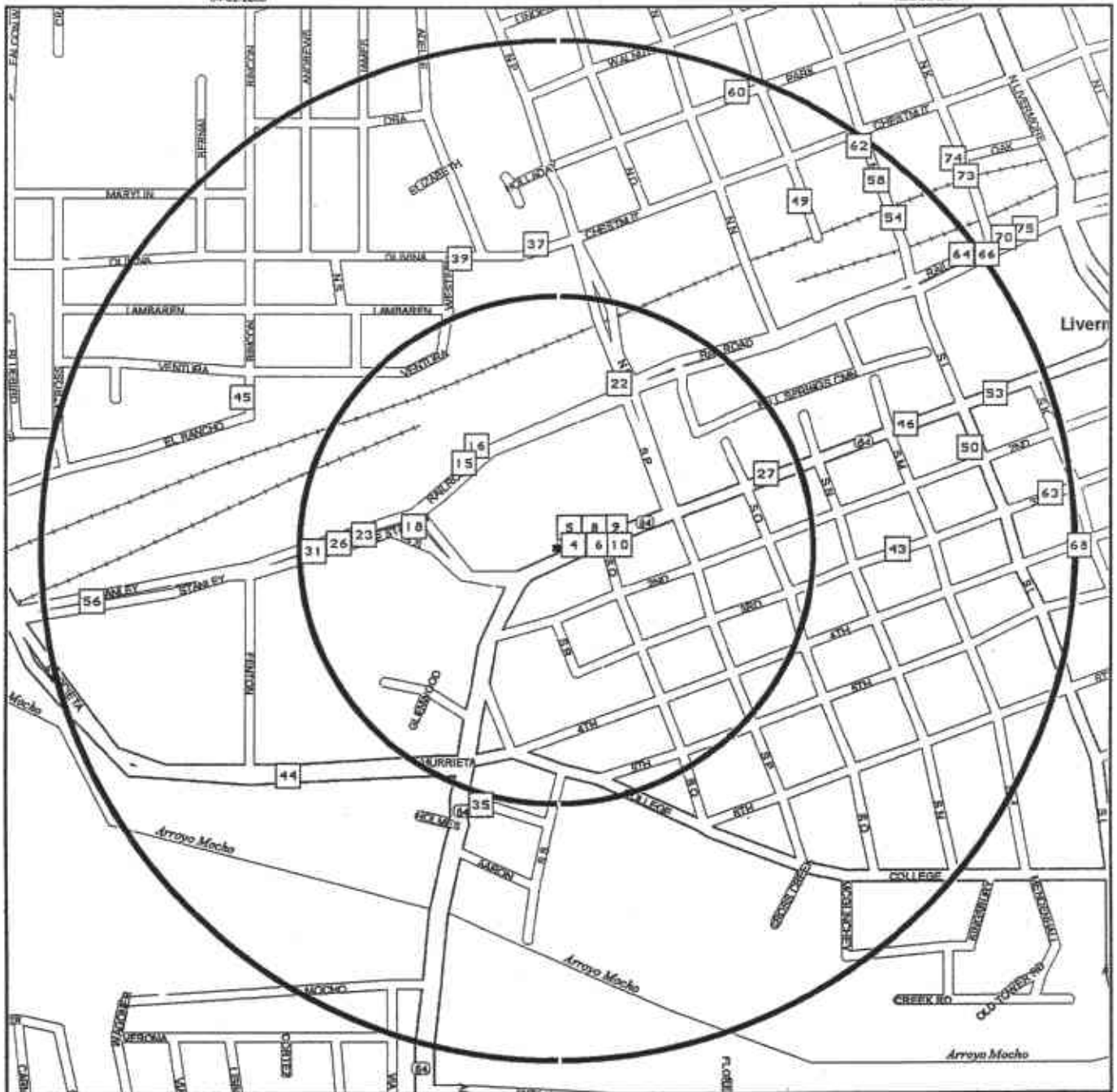


1.8 inches to 1/2 mile (the circles do not include any buffer zone)



- ⬡ ENVIRONMENTAL CONCERNS - HIGH PRIORITY
- ENVIRONMENTAL CONCERNS
- ENVIRONMENTAL CONCERNS - WITH A 'NO FURTHER ACTION' STATUS'
- ▣ OPERATING PERMITS ONLY
- ⬢ WATER WELLS

APPROXIMATE LOCATION OF IDENTIFIED SITES WITH KNOWN ENVIRONMENTAL CONCERNS IN THE VICINITY AT 1304 1ST ST, LIVERMORE



1.8 inches to 1/4 mile (the circles do not include any buffer zone)



- ◻ ENVIRONMENTAL CONCERNS - HIGH PRIORITY
- ENVIRONMENTAL CONCERNS
- ◻ ENVIRONMENTAL CONCERNS - WITH A 'NO FURTHER ACTION' STATUS'
- ◻ OPERATING PERMITS ONLY
- ◻ WATER WELLS

APPROXIMATE LOCATION OF IDENTIFIED SITES WITH OPERATING PERMITS ONLY WITHIN HALF A MILE AT 1304 1ST ST, LIVERMORE

2.	CHEVRON STATION #92864	93.	LIVERMORE CITY OF
3.	GERALD E MCPEAK	94.	J & W DEVELOPMENT
4.	ORCHARD SUPPLY HARDWARE	95.	LAIDLAW TRANSIT INC
5.	MIKE ONE HR CLEANERS	96.	LIVERMORE GERMAN AUTO
6.	LONGS DRUGS #54	97.	CALIFORNIA WATER SERVICE - LIV
7.	GOODYEAR TIRE CENTER	98.	CALIFORNIA WATER SERVICE - LIV
8.	GRAND AUTO, INC	99.	LIVERMORE SEWAGE PONDS
9.	ADOBE PET HOSPITAL	100.	J & W DEVELOPMENT
10.	PRESTO PRINTS		
11.	SAFEWAY INC		
12.	LIVERMORE GAS AND MINI MART		
13.	LIVERMORE ARCADE SITE	UNKNOWN LOCATIONS	
14.	LIVERMORE ARCADE SITE	GRUB AND ELLIS	
15.	FULLER OBRIEN PAINTS	LIVERMORE SEWAGE PONDS	
16.	THRIFTY CORPORATION	LAWRENCE LIVERMORE LAB	
17.	PAUL'S SPARKLE CLEANERS	UNKNOWN	
18.	ANTHONY ALVAREZ DDS	HOPE EDUCATION CTR	
19.	DEPAOLI PROPERTY	THOMAS JOE COPELAND	
20.	ULTRAMAR INC		
21.	KMART #7577		
22.	BARNETT-RANGE CORP		
23.	WENTLING CAMERA AND VIDEO		
24.	VALLEY MEMORIAL HOSPITAL		
25.	GERARD TIRE SERVICE		
26.	MED CENTER		
27.	TRI VALLEY TUNE-UP		
28.	PG&E		
29.	CALIFORNIA WATER SERVICE - LIV		
30.	RR TRACKS		
31.	PACIFIC BELL		
32.	UNOCAL SVC STA #4186		
33.	AMERICAN SAVINGS BANK		
34.	CLINI PATH LABS INC		
35.	AAMES HOME LOANS		
36.	PG & E		
37.	D AND R GOODYEAR		
38.	JACK IN THE BOX		
39.	CALIFORNIA WATER SERVICE CO		
40.	MILL SPRINGS PARK APARTMENTS		
41.	WINTERFELD, GEORGE		
42.	PG&E-FORMER COAL GAS FACILITY		
43.	BOSTER ASSOC INC		
44.	ADVANCED HEALTH CHIROPRACTIC		
45.	RINCON ELEMENTARY SCHOOL		
46.	LIVERMORE FIRESTONE		
47.	FRANKLIN OPTICAL		
48.	GROTH BROS. OLDSMOBILE, INC.		
49.	D&M MACHINE SHOP		
50.	ALPHA AUTO CARE CTR		
51.	GASCO SERVICE STATION #795		
52.	CALIFORNIA WATER SERVICE - LIV		
53.	QUALITY CLEANERS		
54.	CITY OF LIVERMORE		
55.	ERICSON PROPERTY		
56.	SPECIAL CLEANER		
57.	ARROW RENTALS		
58.	"L" STREET CAR WASH		
59.	CALIFORNIA WATER SERVICE - LIV		
60.	HANSEN, ANNA		
61.	UNKNOWN		
62.	DESERT PETROLEUM		
63.	ADOBE PET HOSPITAL		
64.	LUCKY STORES INC		
65.	2080 RAILROAD AVE		
66.	JS CLEANERS		
67.	UNKNOWN		
68.	THOMAS MARCEL DDS		
69.	TRI VALLEY SHELL		
70.	HANSENS BODY SHOP		
71.	UNKNOWN		
72.	CALIFORNIA WATER SERVICE - LIV		
73.	ALLENS TOWING & TUNE UP		
74.	ALL STAR BODY SHOP		
75.	SITE ID 060011002		
76.	ARCO		
77.	NORTH K ASSOCIATES		
78.	ARCO		
79.	LIVERMORE AGRICULTURAL OFFICE		
80.	PACIFIC BELL		
81.	SHELL		
82.	CALIFORNIA WATER SERVICE - LIV		
83.	CALIFORNIA WATER SERVICE - LIV		
84.	LIVERMORE CORPORATION YARD		
85.	LIVERMORE DEPARTMENT OF PUBLIC		
86.	INTERNATIONAL AUTO CAR		
87.	ROBERT & EDNA CARPENTER		
88.	BEACON		
89.	CALIFORNIA WATER SERVICE - LIV		
90.	CALIFORNIA WATER SERVICE - LIV		
91.	PORTOLA MEADOWS APT TRACT 5430		
92.	CALIFORNIA WATER SERV WELL #10		

## INDEX OF SITES LISTED BY MAP NUMBERS

# ENVIRONMENTAL RECORDS SEARCH

## SUMMARY

KNOWN ENVIRONMENTAL CONCERNS FOR

IDENTIFIED PROPERTY

1804 1ST ST LIVERMORE CA

Page 1

Date: 04/02/2008

Job: RLOB3490

ADDRESS	CITY	LOCATION	SOU-RCE	STA-TUS	PAGE	MAP	DIR	LOC
<b>KNOWN ENVIRONMENTAL CONCERNS, WITHIN 1/4 MILE OF THE SUBJECT SITE</b>								
1334 1ST ST	LIVERMORE	CHEVRON CHEVRON STATION #92864 92864	LUST HWIS UST	9 87&93	10 33 43	2	NW	
1453 1ST ST	LIVERMORE	GERALD E MCPEAK FUCHS, ROBERT	LUST HWIS	9	10 34	3	SW	
1485 1ST ST	LIVERMORE	RYNCK TIRE CENTER GOODYEAR TIRE CENTER	LUST HWIS	9	11 34	7	E	
1554 1ST ST	LIVERMORE	SAFEWAY INC	CDETS		5	11	E	
180 HOLMES ST	LIVEREMORE	LIVERMORE GAS AND MINI MART FLYING J GASOLINE FLYING J GASOLINE	LUST HWIS UST	9	13 37 44	12	SW	
1ST & P ST	LIVERMORE	LIVERMORE ARCADE SITE LIVERMORE ARCADE SITE LIVERMORE ARCADE SHOPPING CENT LIVERMORE ARCADE SHOPPING CENT LIVERMORE ARCADE SHOPPING CNTR GRUBB & ELLIS	CalSite CS-nfa NT CERCLA NT HWIS	REFR NFA 1 1 1 1	8 26 26 33	13	E	
1ST & P ST, LIVERMORE ARCADE S	LIVERMORE	HGCL INC	HWIS		33	13	E	
1ST ST & P ST	LIVERMORE	LIVERMORE ARCADE SITE	CS-nfa	NFA	9	14	NE	
1332 RAILROAD AVE	LIVERMORE	MILLER OUTPOST SHOPPING CENTER PAUL'S SPARKLE CLEANERS PAUL'S SPARKLE CLEANERS	NT RCRA HWIS	I S	27 30 40	17	NW	
1679 1ST ST	LIVERMORE	DEPAOLI PROPERTY LIVERMORE MUFFLER SHOP MARGUETE DEPAOLI	LUST HWIS HWIS	9	11 35 35	19	E	
1619 1ST ST	LIVERMORE	BEACON ULTRAMAR INC ULTRAMAR, INC. BEACON STATION # 604	LUST HWIS HWIS UST	5C	11 35 35 43	20	E	
1122 E STANLEY BLVD	LIVERMORE	K MART KMART #7577 K.MART CORP., STORE #7577 KMART ENTERPRISES	LUST HWIS HWIS UST	3B	17 42 43 46	21	W	
1111 E STANLEY BLVD	LIVERMORE	VALLEY MEMORIAL HOSPITAL VALLEY MEMORIAL HOSPITAL VALLEY MEMORIAL HOSPITAL VALLEY MEMORIAL HOSPITAL	LUST HWIS RCRA UST	9	17 42 30 45	24	W	
1882 1ST ST	LIVERMORE	RYNCK TIRE CENTER GERARD TIRE SERVICE RYNEK TIRE & BRAKE INC GERARD TIRE SERVICE	LUST RCRA UST HWIS	9 S 1998A	11 29 44 35	25	E	
1742 2ND ST	LIVERMORE	PG&E	ERNS		3	28	E	
WELL 03-01	03S/02E-08P02 M	CALIFORNIA WATER SERVICE - LIV	WQ	AU	22	29	NW	
WELL 08-01	03S/02E-08P01 M	CALIFORNIA WATER SERVICE - LIV	WQ	AR	21	29	NW	
CWS LIVERMORE	03S/02E-08P02 M	WELL 03-01 dhs0	WIP		18	29	NW	
1364 VENTURA AVE	LIVERMORE	RR TRACKS	ERNS		4	30	NW	
1771 1ST ST	LIVERMORE	UNOCAL UNOCAL UNOCAL SVC STA #4186 UNION OIL SS#4186 UNOCAL SVC STA #4186	ERNS LUST RCRA UST HWIS	9	3 12 29 44 36	32	E	
1429 COLLEGE AVE	LIVERMORE	AMERICAN SAVJNGS BANK AMERICAN SAVINGS BANK	LUST HWIS	9	13 37	33	S	
1171 MURRIETA BLVD	LIVERMORE	CLINI PATH LABS INC	CS-nfa	RED	9	34	SW	
WESTERN PACIFIC RAILROAD & NOR	LIVERMORE	PG & E	NT	I	27	36	NE	



**KNOWN ENVIRONMENTAL CONCERNS FOR**

**DENIGO PROPERTY**

**1304 1ST ST LIVERMORE CA**

Page 2

Date: 10/20/2008

Job: KLEOB8490

ADDRESS	CITY	LOCATION	SOURCE	STATUS	PAGE	MAP	DIR	LOC
1817 1ST ST	LIVERMORE	JACK IN THE BOX UNKNOWN	ERNS		3	38	E	
1809 RAILROAD AVE	LIVERMORE	MILL SPRINGS PARK APARTMENTS	LUST	9	16	40	NE	
318 ADELLE ST	LIVERMORE	WINTERFELD, GEORGE	CS-nfa	RED	9	41	N	
NORTH ST & RR	LIVERMORE	PG&E-FORMER COAL GAS FACILITY	NT		27	42	NE	
NORTH ST & RR, 200-375 FT W OF	LIVERMORE	PG&E GAS PLANT LIVERMORE	NFRAP	NFA	2	42	NE	

**KNOWN ENVIRONMENTAL CONCERNS, WITHIN 1/4 - 1/2 MILE OF THE SUBJECT SITE**

22 FENTON ST	LIVERMORE	FRANKLIN OPTICAL	CS-nfa	RED	9	47	SW	
59 S L ST	LIVERMORE	GROTH BROTHERS OLDSMOBILE GROTH BROS. OLDSMOBILE, INC. GROTH BROS OLDSMOBILE INC GROTH BROS OLDSMOBILE INC	LUST UST HWIS RCRA	3B 87981 S	14 45 38 29	48	E	
2008 1ST ST	LIVERMORE	DESERT PETROLEUM BP	LUST	7	12	51	E	
2008 1ST ST, N/A/N/A	LIVERMORE	GASCO SERVICE STATION #795	UST	87&A9	44	51	E	
2008 1ST ST	LIVERMORE	DESERT PETROLEUM INC GASCO GASCO	HWIS HWIS HWIS		36 36 36	51	E	
WELL 14-01	03S/02E-08N02 M	CALIFORNIA WATER SERVICE - LIV	WQ	AU	21	52	W	
444 N N ST	LIVERMORE	ERICSON PROPERTY	LUST	9	15	55	N	
187 N L ST	LIVERMORE	ARROW RENTALS UNKNOWN DON-SUL INC DBA ARROW RENTALS DON-SUL INC DBA ARROW RENTALS	LUST ERNS HWIS HWIS	3B 3 38 38	13	57	NE	
WELL 10-01 - BLENDED		CALIFORNIA WATER SERVICE - LIV	WQ	CM	28	59	NW	
451 RINCON AVE	LIVERMORE	UNKNOWN	ERNS		4	61	NW	
2080 RAILROAD AVE	LIVERMORE	UNKNOWN	ERNS ERNS		4 4	65	NE	
128 ALBATROSS AVE	LIVERMORE	UNKNOWN	ERNS		3	67	W	
809 E STANLEY BLVD	LIVERMORE	SHELL TRI VALLEY SHELL TRI VALLEY SHELL SHELL STATION #204-4380-0808	LUST HWIS UST RCRA	1 41 87&A9 S	17 41 45 30	69	W	
809 E STANLEY BLVD, MURIETTA	LIVERMORE	SHELL STATION #204-4380-0808	HWIS		42	69	W	
509 RINCON AVE	LIVERMORE	UNKNOWN	ERNS		4	71	NW	
WELL 10-01	03S/02E-08F01 M	CALIFORNIA WATER SERVICE - LIV	WQ	AR	19	72	NW	

**KNOWN ENVIRONMENTAL CONCERNS, WITHIN 1/2 - 3/4 MILE OF THE SUBJECT SITE**

785 E STANLEY BLVD	LIVERMORE	ARCO	LUST	5C	16	76	W	
2322 2322 38 1ST ST	LIVERMORE	NORTH K ASSOCIATES	LUST	9	12	77	E	
899 RINCON AVE	LIVERMORE	ARCO	LUST	5C	16	78	NW	
2418 RAILROAD AVE	LIVERMORE	LIVERMORE AGRICULTURAL OFFICE	LUST	1	16	79	NE	
2388 2ND ST	LIVERMORE	PACIFIC BELL	LUST	9	12	80	E	
318 S LIVERMORE AVE	LIVERMORE	SHELL	LUST	9	14	81	E	
WELL 19-01	03S/02E-08G01 M	CALIFORNIA WATER SERVICE - LIV	WQ	AR	20	82	N	
WELL 04-01 - INACTIVE	03S/02E-08H01 M	CALIFORNIA WATER SERVICE - LIV	WQ	IU	21	83	NE	
2500 RAILROAD AVE	LIVERMORE	LIVERMORE CORPORATION YARD	LUST	9	16	84	NE	

ADDRESS	CITY	LOCATION	SOURCE	STATUS	PAGE	MAP	DIR	LOC
<b>KNOWN ENVIRONMENTAL CONCERNS, WITHIN 3/4 - 1 MILE OF THE SUBJECT SITE</b>								
RINCON/JUNIPER/SPRUCE	LIVERMORE	LIVERMORE DEPARTMENT OF PUBLIC	NT	I	27	85	NW	
2551 2ND ST	LIVERMORE	INTERNATIONAL AUTO CAR	LUST	9	13	86	E	
524 S LIVERMORE AVE	LIVERMORE	ROBERT & EDNA CARPENTER	LUST	9	14	87	E	
2620 OLD 1ST ST	LIVERMORE	BEACON	LUST	5C	15	88	NE	
WELL 15-01	03S/02E-16C01 M	CALIFORNIA WATER SERVICE - LIV	WQ	AU	24	89	E	
WELL 12-01	03S/02E-09P01 M	CALIFORNIA WATER SERVICE - LIV	WQ	AR	24	90	E	
1830 PORTOLA AVE	LIVERMORE	PORTOLA MEADOWS APT TRACT 5430	LUST	9	15	91	N	
RINCON & SUNSET DR	LIVERMORE	CALIFORNIA WATER SERV WELL #10 LIVERMORE SEWAGE PONDS	NFRAP CalSite	NFA REFRW8	2	92	NW	
1787 PORTOLA AVE	LIVERMORE	LIVERMORE CITY OF	NT	I	27	93	N	
330 WOOD ST	LIVERMORE	J & W DEVELOPMENT	LUST	9	17	94	E	
2900 LADD AVE	LIVERMORE	LAILDLAW TRANSIT INC	LUST	3B	14	95	NE	
2730 OLD 1ST ST	LIVERMORE	LIVERMORE GERMAN AUTO	LUST	9	15	96	NE	
WELL 17-01	03S/02E-09L01 M	CALIFORNIA WATER SERVICE - LIV	WQ	AR	23	97	E	
WELL 20-01	03S/02E-18B01 M	CALIFORNIA WATER SERVICE - LIV	WQ	AU	25	98	W	
NW PINE ST & MURRIETTA BLVD	LIVERMORE	LIVERMORE SEWAGE PONDS	CERCLA		1	99		
2920 4TH ST	LIVERMORE	J & W DEVELOPMENT	LUST	9	13	100	E	
<b>SITES WITH UNKNOWN OR NON-SPECIFIC LOCATION</b>								
1ST ST	LIVERMORE	INLAND VALLEY PUBLISHING COMPA	CS-nfa	RED	8			
PINE ST	LIVERMORE	LIVERMORE SEWAGE PONDS	NT	I	27			
PO BOX 808	LIVERMORE	LAWRENCE LIVERMORE LAB	SETS		5			
E STANLEY BLVD	LIVERMORE	UNKNOWN	ERNS		4			

ADDRESS	CITY	LOCATION	SOU- RCE	STA- TUS	PAGE	MAP	DIR	LOC
<b>OPERATING PERMITS ONLY, WITHIN 1/4 MILE OF THE SUBJECT SITE</b>								
1450 1ST ST	LIVERMORE	ORCHARD SUPPLY HARDWARE ORCHARD SUPPLY HARDWARE	RCRA HWIS		29 34	4	E	
1430 1ST ST	LIVERMORE	MIKE ONE HR CLEANERS MIKE ONE HR CLEANERS	HWIS RCRA	S	33 29	5	NE	
1500 1ST ST	LIVERMORE	LONGS DRUGS #64	HWIS		34	6	E	
1511 1ST ST	LIVERMORE	GRAND AUTO, INC GRAND AUTO, INC	HWIS RCRA		34 29	8	NE	
1543 1ST ST	LIVERMORE	ADOBE PET HOSPITAL	HWIS		34	9	E	
1518 1ST ST	LIVERMORE	PRESTO PRINTS	HWIS		34	10	E	
1318 RAILROAD AVE	LIVERMORE	FULLER OBRIEN PAINTS	RCRA	S	30	15	NW	
1320 RAILROAD AVE	LIVERMORE	THRIFTY CORPORATION	HWIS		40	16	NW	
1221 E STANLEY BLVD	LIVERMORE	ANTHONY ALVAREZ DDS	HWIS		43	18	W	
P&L STS/RAILROAD AVE	LIVERMORE	BARNETT-RANGE CORP	HWIS		40	22	NE	
1098 E STANLEY BLVD	LIVERMORE	WENTLING CAMERA AND VIDEO WENTLING CAMERA AND VIDEO	RCRA HWIS	S	30 42	23	W	
1090 E STANLEY BLVD	LIVERMORE	MED CENTER	HWIS		42	26	W	
1737 1ST ST	LIVERMORE	TRI VALLEY TUNE-UP TRIVALLEY TUNE UP HERNANDEZ, MARTIN BEACON SERVICE STATION	HWIS HWIS HWIS UST		35 35 36 44	27	E	8798A
1015 E STANLEY BLVD	LIVERMORE	PACIFIC BELL PACIFIC TELEPHONE AND TELEGRAP	RCRA HWIS	S	30 42	31	W	
1230 MARGUERITE ST	LIVERMORE	AAMES HOME LOANS	HWIS		39	35	S	
1565 OLIVINA AVE	LIVERMORE	D AND R GOODYEAR BOBS PARTS HOUSE DICK & RYANS	HWIS HWIS HWIS		40 40 40	37	N	
1493 OLIVINA AVE	LIVERMORE	CALIFORNIA WATER SERVICE CO CALIF WATER SERVICE CO FIELD OFFICE	HWIS HWIS UST		39 39 45	39	N	8798B
1853 3RD ST	LIVERMORE	BOSTER ASSOC INC	HWIS		37	43	E	
988 MURRIETA BLVD	LIVERMORE	ADVANCED HEALTH CHIROPRACTIC	HWIS		39	44	SW	
125 RINCON AVE	LIVERMORE	RINCON ELEMENTARY SCHOOL LIVERMORE VALLEY JOINT U S D	HWIS HWIS		41 41	45	W	
<b>OPERATING PERMITS ONLY, WITHIN 1/4 - 1/2 MILE OF THE SUBJECT SITE</b>								
1931 1ST ST	LIVERMORE	LIVERMORE FIRESTONE	HWIS		36	46	E	
241 N M ST	LIVERMORE	D&M MACHINE SHOP	HWIS		39	49	NE	
174 S L ST	LIVERMORE	ALPHA AUTO CARE CTR LIVERMORE AUTO EXCHANGE	HWIS HWIS		38 39	50	E	
2048 1ST ST	LIVERMORE	QUALITY CLEANERS QUALITY CLEANERS	RCRA HWIS		29 36	53	E	
141 L ST, 149,153,167	LIVERMORE	CITY OF LIVERMORE	HWIS		38	54	NE	
851 E STANLEY BLVD	LIVERMORE	SPECIAL CLEANER	FN		33	56	W	
220 N L ST	LIVERMORE	"L" STREET CAR WASH	UST	8798A	44	58	NE	
1868 PARK ST	LIVERMORE	HANSEN, ANNA	HWIS		40	60	NE	
277 N L ST	LIVERMORE	DESERT PETROLEUM QUALITY TUNE-UP #55	UST HWIS	87&98	45 38	62	NE	

ADDRESS	CITY	LOCATION	SOU- RCE	STA- TUS	PAGE	MAP	DIR	LOC
		DESERT PETROLEUM INC		HWIS				38
2059 3RD ST	LIVERMORE	ADOBE PET HOSPITAL		HWIS	37	63	E	
2073 RAILROAD AVE	LIVERMORE	LUCKY STORES INC		HWIS	41	64	NE	
2093 RAILROAD AVE	LIVERMORE	JS CLEANERS		HWIS	41	66	NE	
		JS CLEANERS		RCRA S	30			
		J CLEANERS		HWIS	41			
2084 4TH ST	LIVERMORE	THOMAS MARCEL DDS		HWIS	37	68	E	
2127 RAILROAD AVE	LIVERMORE	HANSENS BODY SHOP		HWIS	41	70	NE	
		HANSENS BODY SHOP		RCRA S	30			
181 N K ST	LIVERMORE	ALLENS TOWING & TUNE UP		HWIS	37	73	NE	
185 N K ST	LIVERMORE	ALL STAR BODY SHOP		RCRA	29	74	NE	
		ALL STAR BODY SHOP		HWIS	37			
2131 RAILROAD AVE, LIVERMORE	LIVERMORE	SITE ID 060011002		FN	32	75	NE	
<b>SITES WITH UNKNOWN OR NON-SPECIFIC LOCATION</b>								
1ST ST	LIVERMORE	GRUB AND ELLIS		HWIS				33
PO BOX 2362	LIVERMORE	HOPE EDUCATION CTR		FIFRA				32
		HOPE EDUCATION CTR		FIFRA				32
PO BOX 928	LIVERMORE	THOMAS JOE COPELAND		UST	8798A			45

REFERENCED SOURCES

Date: 04-02-2003

Job: KLOB3490

NPL	NATIONAL PRIORITY LIST (01/15/03)					
CERCLA	CERCLIS (01/03)					
NFRAP	NFRAP (01/03)					
FedFac	FEDERAL FACILITIES (01/03)					
ERNS	EMERGENCY RESPONSE NOTIFICATION SYSTEM (1989-2002)					
HM	HAZARDOUS MATERIAL INCIDENT REPORT SYSTEM (1993-2002)					
SETS	SITE ENFORCEMENT TRACKING SYSTEM (01/12/03)					
CDETS	ENFORCEMENT DOCKET (DOCKET/CDETS)					
CD	C-DOCKET (12/02)					
RV	RCRA VIOLATORS LIST (12/02)					
TSD	RCRA - TSD FACILITIES (09/00)					
	I	Inclinerator	D	Land Disposal	T	Storage/Treatment
FD	FEDERAL ENFORCEMENT DOCKETS					
AnnWrk	ANNUAL WORK PLAN (09/07/01)					
	BKLG	Backlog	DLST	Delisted from the AWP	AWP	Active AWP site
	REFRW	Referred to the RWQB	COM	Certified, maint mode	REFRC	Referred to RCRA
	CERT	Certified after remediation				
CalSite	CALSITES (09/07/01)					
	PEARL	Prel Assmnt Low priority	NFA	No Further Action for DTSC	PEARM	Prel Assmnt Medium priority
	EPA	EPA is the lead agency	PEARH	Prel Assmnt High priority	RCRA	Mitigated under the RCRA
	SSR	Site Screening Required	RWQCB	Mitigated under RWQB	HRR	Hazard Ranking Required
	CNTY	County lead	PRPR	PRP Search Required	OAL	Other Agency lead
CS-nfa	CALSITES - NO FURTHER ACTION (09/01/01)					
	NFA	No Further Action	RED	Closed Case		
CS	CORTESE (09/01)					
	WRCBT	Tank leak	DHS3	Cont large well	DHS1	Abandoned haz waste site
	DHS5	section 25356	DHS2	Cont small well	CWMB	Disposal site
LUST	LEAKING UNDERGROUND STORAGE TANKS (09/01)					
	0	No action	3B	Prel site assmnt underway	7	Remedial action underway
	1	Leak being confirmed	5C	Pollution characterization	8	Post remedial action monitoring
	3A	Site workplan submitted	5R	Remediation plan	9	Case closed
SWIS	SOLID WASTE INFORMATION SYSTEM (09/01)					
WIP	WELL INVESTIGATION PROGRAM					
WQ	DRINKING WATER PROGRAM					
NT	TOXIC RELEASES					
TP	TOXIC PITS (01/01)					
SR	SOLID WASTE ASSESSMENT TEST - REGIONAL (01/01)					
RCRA	RCRA GENERATORS (09/00)					
	L	Large Generator	T	Transporter	S	Small Generator
SARA	SARA TITLE III, SECTION 313 (TRIS) (01/03)					
Nucl	NUCLEAR REGULATORY COMMISSION LICENSEES (01/03)					
PCB	PCB WASTE HANDLERS DATABASE (01/03)					
PCS	PERMIT COMPLIANCE SYSTEM (PCS) (01/03)					
AFS	AIRS FACILITY SYSTEM (AFS) (01/03)					
PE	SECTION SEVEN TRACKING SYSTEM (01/03)					
FIFRA	FIFRA/TSCA TRACKING SYSTEM (01/03)					
FIFS	FEDERAL FACILITIES INFORMATION SYSTEM (FFIS) (01/03)					
CICIS	CHEMICALS IN COMMERCE INFORMATION SYSTEM (01/03)					
FN	FINDS EPA FACILITY INDEX SYSTEM (01/03)					
HWIS	HAZARDOUS WASTE INFORMATION SYSTEM (1984-2000)					
UST	UNDERGROUND STORAGE TANKS					

## INTRODUCTION

## FEDERAL SOURCES

### NPL National Priority List

EPA has prioritized sites with significant risk to human health and the environment. These sites receive remedial funding under the Comprehensive Environmental Response Conservation and Liability Act (CERCLA).

*No listings within 1 mile radius of the subject site.*

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

CERCLIS is a database used by the EPA to track activities conducted under the Comprehensive Environmental Response and Liability Act CERCLA (1980) and the amendment the Superfund Amendments and Reauthorization Act SARA (1986).

Sites to be included are identified primarily by the reporting requirements of hazardous substances Treatment, Storage and Disposal (TSD) facilities and releases larger than specific Reportable Quantities (RQ), established by EPA.

Using the National Oil and hazardous Substance Pollution Contingency Plan(National Contingency Plan) the EPA set priorities for cleanup.

The EPA rates National Contingency Plan sites according to a quantitative Hazard Ranking System (HRS) based on the potential health risk via any one or more pathways: groundwater, surface water, air, direct contact, and fire/explosion.

The EPA and state agencies seek to identify potentially responsible parties(PRP) and ultimately Responsible Parties (RP) who can be required to finance cleanup activities, either directly or through reimbursement of federal Superfund expenditures.

This list has been researched within 1 mile radius of the subject site.

Site: LIVERMORE ARCADE SHOPPING CENT  
Address: 1ST & P ST  
City: LIVERMORE  
Map Loc: 13 - within 1/4 mile E of the subject  
Status: EPA ID#: CAD983664665

Discovery of this Hazardous Waste site was brought to EPA's attention on 04/13/93.

Site: LIVERMORE SEWAGE PONDS  
Address: PINE ST & MURRIETTA BLVD  
City: LIVERMORE  
Map Loc: 99 - within 3/4 - 1 mile NW of the subject  
Status: EPA ID#: CAD982400434

Discovery of this Hazardous Waste site was brought to EPA's attention on 09/01/88. The Preliminary Assessment, consisting of collecting and documenting existing information about the source and nature of the site hazard was completed on 03/04/91. On 11/07/91, a screening Site Inspection was completed, collecting site data and samples to characterize the severity of the hazard to support the ranking and enforcement of the clean-up required. An additional Preliminary Assessment was completed on 09/15/93.

**NFRAP No Further Remedial Action Planned sites (CERCLIS)**

As of February 1995, CERCLIS sites designated 'No Further Remedial Action Planned' NFRAP have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the site being placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.

EPA has removed these NFRAP sites from CERCLIS to lift unintended barriers to the redevelopment of these properties. This policy change is part of EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens promote economic redevelopment of unproductive urban sites.

This list has been researched within 1 mile radius of the subject site.

Site: PG&E GAS PLANT LIVERMORE  
Address: NORTH ST & RR, 200-375 FT W OF  
City: LIVERMORE  
Map Loc: 42 - within 1/4 mile NE of the subject  
Status: EPA ID#: CAD981415102

Discovery of this Hazardous Waste site was brought to EPA's attention on 06/01/86. The Preliminary Assessment, consisting of collecting and documenting existing information about the source and nature of the site hazard was completed on 12/01/87.

Site: CALIFORNIA WATER SERV WELL #10  
Address: RINCON & SUNSET DR  
City: LIVERMORE  
Map Loc: 92 - within 3/4 - 1 mile NW of the subject  
Status: EPA ID#: CAD982400236

Discovery of this Hazardous Waste site was brought to EPA's attention on 06/01/88. The Preliminary Assessment, consisting of collecting and documenting existing information about the source and nature of the site hazard was completed on 10/01/88.

**FEDFAC Federal Facilities**

As part of the CERCLA program, federal facilities with known or suspected environmental problems, the Federal Facilities Hazardous Waste Compliance Docket is tracked separately to comply with a Federal Court order.

*No listings within 1 mile radius of the subject site.*

**ERNS Emergency Response Notification System**

The ERNS is a national computer database used to store information on unauthorized releases of oil and hazardous substances. The program is a cooperative effort of the Environmental Protection Agency, the Department of Transportation Research and Special Program Administration's John Volpe National Transportation System Center and the National Response Center.

There are primarily five Federal statutes that require release reporting the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) section 103; the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304; the Clean Water Act of 1972(CWA) section 311(b)(3); and the Hazardous Material Transportation Act of 1974(HMTA section 1808(b).

This list has been researched within half of a mile radius of the subject site.

Site: UNOCAL  
Address: 1771 1ST ST  
City: LIVERMORE  
Map Loc: 32 - within 1/4 mile E of the subject  
Status: 96 513409 06/06/96

DURING CONSTRUCTION, SOIL CONTAMINATION WAS DISCOVERED  
PREVIOUS CASE #: 96-3845  
UNOCAL TO C/U

Site: JACK IN THE BOX  
Address: 1817 1ST ST  
City: LIVERMORE  
Map Loc: 38 - within 1/4 mile E of the subject  
Status: 9100032614 NATURAL GAS (09/27/1991)

1817 1ST ST  
1/2 INCH NATURAL GAS PIPELINE/OBJECT WAS DROPPED ON THE PIPELINE  
NO ACTION TAKEN

Site: UNKNOWN  
Address: 1817 1ST ST  
City: LIVERMORE  
Map Loc: 38 - within 1/4 mile E of the subject  
Status: 9100034753 NATURAL GAS (09/25/1991)

1817 1ST  
UNITS: OTHER=10 MINUTES RELEASE BROKE OFF GAS LINE GOINT TO WATER HEATER IN COMMERCIAL  
BLDG.  
CLEANUP NOT NECESSARY

Site: PG&E  
Address: 1742 2ND ST  
City: LIVERMORE  
Map Loc: 28 - within 1/4 mile E of the subject  
Status: 9100005183 20 GAL of TRANSFORMER OIL (POSS PCB)

1742 2ND ST  
TRANSFORMER  
CLEANUP BY RP

Site: UNKNOWN  
Address: 126 ALBATROSS AVE  
City: LIVERMORE  
Map Loc: 67 - within 1/4 - 1/2 mile W of the subject  
Status: 9100028963 55 GAL of WASTE OIL (08/13/1991)

126 ALBATROSS  
FD WILL RETRIEVE

Site: UNKNOWN  
Address: 187 N L ST  
City: LIVERMORE



Map Loc: 57 - within 1/4 - 1/2 mile NE of the subject  
Status: 9200006437 0 1 DRU of UNKNOWN LIQUID (01/31/1992)

187 N. L ST  
ABANDONED PROPERTY  
CLEANUP BY CODOH

Site:  
Address: 2080 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 65 - within 1/4 - 1/2 mile NE of the subject  
Status: 9100009211 5 GAL of CHLORINE (04/03/1991)

2080 RAILROAD AVE  
LIQUID CHLORINE DISCOVERED ON THE GROUND  
NO ACTION TAKEN

Site: UNKNOWN  
Address: 2080 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 65 - within 1/4 - 1/2 mile NE of the subject  
Status: 9100015322 5 GAL of CHLORINE (04/03/1991)

BEHIND 2080 RAILROAD AVENUE  
CLEANUP UNDETERMINED

Site: UNKNOWN  
Address: 451 RINCON AVE  
City: LIVERMORE  
Map Loc: 61 - within 1/4 - 1/2 mile NW of the subject  
Status: 9200023626 0 1 OTH of COMBUSTIBLE LIQUID (1 PINT) (

451 RINCON AVE  
DELIVERED TO FD  
NO WATERWAYS AFFECTED. WILL BE DISPOSED OF BY FD.

Site: UNKNOWN  
Address: 509 RINCON AVE  
City: LIVERMORE  
Map Loc: 71 - within 1/4 - 1/2 mile NW of the subject  
Status: 9200012971 0 1 OTH of LEAD ACID BATTERY (1 PC) (04/

509 RINCON AVE  
DUMPING/NO LEAKAGE  
FD REMOVED, NO LEAKAGE

Site: UNKNOWN  
Address: E STANLEY BLVD  
City: LIVERMORE  
Status: 9000036982 MURIATIC ACID (11/06/1990)

EAST STANLEY BLVD.  
QUANTITY = 1 QUART FELL FROM TRUCK - CONTAINER BROKE  
CLEANUP BY LIVERMORE FIRE DEPT

Site: RR TRACKS  
Address: 1364 VENTURA AVE  
City: LIVERMORE  
Map Loc: 30 - within 1/4 mile NW of the subject  
Status: 9200016110 0 2 GAL of MOTOR OIL (05/06/1992)

RR TRACKS ACROSS FROM 1364 VENTURA AVE  
PEOPLE DUMPED USED MOTOR OIL ON TRACKS  
NO WATERWAYS, NO CLEANUP

**HMIRS** Hazardous Material Incident Report System

The Hazardous Material Report Incident Report Subsystem HMIRS of the Research and Special Programs Administration (RSPA) Hazardous Material Information System was established in 1971 to fulfill the requirements of the Federal hazardous material transportation law. Part 171 of Title 49, Code of Federal Regulations (49 CFR) contains the incident reporting requirements of carriers of hazardous materials. An unintentional release of hazardous materials meeting the criteria set forth in Section 171.16, 49 CFR, must be reported on DOT Form 5800.1. The data from the reports received are subsequently entered in the HAZMAT database.

*No listings within the street address of the subject site.*

**SETS** Site Enforcement Tracking System (SETS)

When expanding Superfund monies at a CERCLA (Comprehensive Environmental Response, Compensation and Liability Act) Site, EPA must conduct a search to identify parties with potential financial responsibility for remediation of uncontrolled hazardous waste sites. EPA regional Superfund Waste Management Staff issue a notice letter to the potentially responsible party (PRP). The status field contains the EPA ID number and name of the site where the actual pollution occurred.

This list has been researched within 1 mile radius of the subject site.

Site: LAWRENCE LIVERMORE LAB  
Address: PO BOX 808  
City: LIVERMORE  
Status: id: 17786

CAD029295706 LORENTZ BARREL & DRUM

notice date 5/21/90

**DO** Enforcement Docket System (DOCKET)/Consent Decree Tracking System (CDETS)

DOCKET tracks civil judicial cases against environmental polluters, while CDETS processes court settlements, called consent decrees.

This list has been researched within half of a mile radius of the subject site.

Site: SAFEWAY INC  
Address: 1554 1ST ST  
City: LIVERMORE  
Map Loc: 11 - within 1/4 mile E of the subject  
Status: Permit id#: 000012714290

**CD** Criminal Docket System (C-DOCKET)

The Criminal Docket System is a comprehensive automated system for tracking criminal enforcement actions. C-Docket handles data for all environmental statutes and tracks enforcement actions from the initial stages of investigations through conclusion.

*No listings within half of a mile radius of the subject site.*

RCRA RCRA Violators List (CORRACTS)

The Resource Conservation and Recovery Act of 1976 provides for "cradle to grave" regulation of hazardous wastes. RCRA requires regulation of hazardous waste generators, transporters, and storage/treatment/disposal sites. Evaluation to potential violations, ranging from manifest requirements to hazardous waste discharges, is typically conducted by the US EPA. This database is also known as Corrective Action Report (CORRACTS)

If enforcement is required, it is typically delegated to a state agency.

*No listings within 1 mile radius of the subject site.*

RCRA-D Resource Conservation and Recovery Information System - Treatment, Storage & Disposal

The Environmental Protection Agency regulates the treatment, storage and disposal of hazardous material through the Resource Conservation and Recovery Act (RCRA). All hazardous waste TSD facilities are required to notify EPA of their existence by submitting the Federal Notification of Regulated Waste Activity Form (EPA Form 8700-12) or a state equivalent form as well as part A (EPA form 8700-23) and Part B of their Hazardous Waste Permit Application.

Status Codes:	I	Incinerator
	T	Storage/Treatment facility other than Incinerator
	D	Land Disposal Facility

*No listings within 1 mile radius of the subject site.*

FD Federal Enforcement Dockets

The US EPA, Office of Enforcement, maintains a list of sites under enforcement by the US EPA.

*No listings within 1 mile radius of the subject site.*

## CALIFORNIA STATE SOURCES

AW Annual Work Plan (previously known as Bond Expenditure Plan)

The California Health and Safety code, as amended by AB 129, requires the California Environmental Protection Agency to develop a site-specific expenditure plan as the basis for an appropriation of California Hazardous Substance Cleanup Bond Act of 1984 funds.

The Agency is also required to update the report annually and report any significant adjustments to the Legislature on an ongoing basis. The plan identifies California hazardous waste sites targeted for cleanup by responsible parties, the California and the Federal Environmental Protection Agency over the next five years.

Status Codes: BKLG Backlog, Potential Annual Work Plan Site

AWP Active Annual Work Plan site  
COM Certified, but still in Operation & Maintenance mode  
CERT Certified after remediation  
DLST Delisted from the AWP  
REFRC Former AWP site referred to RCRA  
REFRW Former AWP site referred to the Regional Water Quality Board

*No listings within 1 mile radius of the subject site.*

CALS CALSITES

The Historical Abandoned Site Survey Program identified certain potential hazardous waste sites. The identification of these sites were generally not made via sampling and site characterization, they were made as a result of file searches and windshield surveys. Some of the sites may have had a site inspection with sampling.

The information has been compiled into this database by the California Environmental Protection Agency, Department of Toxic Substance Control (DTSC) in accordance with Section 25359.6 of the California Health and Safety Code.

This database was previously known as The Abandoned Sites Program Information System ASPIS.

Status Codes: PEARL Preliminary Endangerment Assessment Required, Low priority  
PEARM Preliminary Endangerment Assessment Required, Medium priority  
PEARH Preliminary Endangerment Assessment Required, High priority  
SSR Site Screening Required  
HRR Hazard Ranking Required  
PRPR Potential Responsible Party Search Required  
EPA EPA is the lead agency  
RCRA Mitigated under the RCRA permitting program  
RWQCB Mitigated under the lead of the Regional Water Quality Board  
CNTY County lead  
OAL Other Agency lead

This list has been researched within 1 mile radius of the subject site.

Site: LIVERMORE ARCADE SITE  
Address: 1ST & P ST  
City: LIVERMORE  
Map Loc: 13 - within 1/4 mile E of the subject  
Status: id: 01530002 060894 RETAIL - GENERAL MERCHANDISE STORES

Contaminants: HALOGENATED SOLVENTS, CONTAMINATED SOIL

Actions:  
PRELIMINARY ENDANGERMENT ASSESSMENT - completed on 06/25/93

The Livermore Arcade site is a shopping center occupying approximately 11.75 acres at the northwest corner of First Street and South P Street in downtown Livermore, CA. Twelve retail stores and two restaurants occupy the tenant spaces at the site. Site investigation conducted in October 1990 indicated that one of the tenants, Mike's OneHour Cleaners, has been identified as the source of soil and groundwater contamination. Available information indicates that the principal contaminant, tetrachloro-ethylene (PCE), was routinely discharged into the floor drain which leads to a broken 4" diameter sewer line. The practice is reported to predate Mike's operation. PCE was dissolved in the soil by constant water flow through the sewer line. The dissolved PCE ultimately entered the groundwater spreading in the direction of groundwater movement (to the north). Groundwater monitoring was then initiated under the supervision of the Alameda County and SF Regional Water Quality Control Board. Potential exposure pathways were evaluated and the possibility of PCE impacting the drinking water aquifers used by the city of Livermore was noted. PCE as high as 1,300 ppb was detected in groundwater samples. A remedial plan/preliminary remedial design is currently underway with the RWQCB acting as lead agency. SFRWQCB has issued a Tentative Site Clean-Up Order (SCO) on June 23, 1993 w/c includes DTSC's review of the Baseline Health Risk Assessment. A pilot study is being conducted which included construction of a vapor extraction treatment unit in the service area behind the Arcade. Groundwater monitoring is ongoing. (04/22/93)

Site: LIVERMORE SEWAGE PONDS  
Address: RINCON & SUNSET DR  
City: LIVERMORE  
Map Loc: 92 - within 3/4 - 1 mile NW of the subject  
Status: id: 01490014 050394 ELECTRIC, GAS & SANITARY SERVICES

Contaminants: HALOGENATED SOLVENTS

Program: CERCLA II

Actions:  
DISCOVERY - completed on 01/01/83

FACILITY IDENTIFIED DISCOVERED BY RWQCB DURING '83 ASSESSMNT OF DRINKING WTR WELLS.  
WELLS CONTMN WITH PCE. (01/01/83)  
SITE SCREENING DONE SITE REFERRED FROM RWQCB. (03/25/88)  
FACILITY DRIVE-BY TRACT HOUSES BUILT OVER WHAT USED TO BE PERCOLATION BEDS. (04/04/88)  
PRELIMASSESS DONE SI HIGH RECOMMENDED DUE TO DRINKING WTR CONTMN. (05/19/88)  
SUBMIT TO EPA NFA FOR EPA: FAC IS NOT AN NPL CANDIDTE ATTHIS TIME BASED ON AVAILABLE  
INFORMTN (05/31/88)

CALS CALSITES - No Further Action

This section includes the sites on the Calsite list, which have been flagged for no further action by the California Environmental Protection Agency, Department of Toxic Substance Control (DTSC) in accordance with Section 25359.6 of the California Health and Safety Code.

Status Codes: NFA No Further Action for DTSC  
RED Closed Case marked for removal from list

This list has been researched within half of a mile radius of the subject site.

Site: LIVERMORE ARCADE SITE  
Address: 1ST & P ST  
City: LIVERMORE  
Map Loc: 13 - within 1/4 mile E of the subject  
Status: id: 01530002 060894 RETAIL - GENERAL MERCHANDISE STORES

Contaminants: HALOGENATED SOLVENTS, CONTAMINATED SOIL

Actions:  
PRELIMINARY ENDANGERMENT ASSESSMENT - completed on 06/25/93

The Livermore Arcade site is a shopping center occupying approximately 11.75 acres at the northwest corner of First Street and South P Street in downtown Livermore, CA. Twelve retail stores and two restaurants occupy the tenant spaces at the site. Site investigation conducted in October 1990 indicated that one of the tenants, Mike's OneHour Cleaners, has been identified as the source of soil and groundwater contamination. Available information indicates that the principal contaminant, tetrachloro-ethylene (PCE), was routinely discharged into the floor drain which leads to a broken 4" diameter sewer line. The practice is reported to predate Mike's operation. PCE was dissolved in the soil by constant water flow through the sewer line. The dissolved PCE ultimately entered the groundwater spreading in the direction of groundwater movement (to the north). Groundwater monitoring was then initiated under the supervision of the Alameda County and SF Regional Water Quality Control Board. Potential exposure pathways were evaluated and the possibility of PCE impacting the drinking water aquifers used by the city of Livermore was noted. PCE as high as 1,300 ppb was detected in groundwater samples. A remedial plan/preliminary remedial design is currently underway with the RWQCB acting as lead agency. SFRWQCB has issued a Tentative Site Clean-Up Order (SCO) on June 23, 1993 w/c includes DTSCs review of the Baseline Health Risk Assessment. A pilot study is being conducted which included construction of a vapor extraction treatment unit in the service area behind the Arcade. Goundwater monitoring is ongoing. (04/22/93)

Site: INLAND VALLEY PUBLISHING COMPA

Address: 1ST ST  
City: LIVERMORE  
Status: id: 0127000711051980 27 00 00

RECEIVED QUESTIONNAIRE. NO PROBLEM. (11/05/80)

Site: LIVERMORE ARCADE SITE  
Address: 1ST ST & P ST  
City: LIVERMORE  
Map Loc: 14 - within 1/4 mile NE of the subject  
Status: id: 01530002 0608 RETAIL - GENERAL MERCHANDISE STORES

Contaminants: HALOGENATED SOLVENTS, CONTAMINATED SOIL

Actions:  
PRELIMINARY ENDANGERMENT ASSESSMENT - completed on 06/25/93

The Livermore Arcade site is a shopping center occupying approximately 11.75 acres at the northwest corner of First Street and South P Street in downtown Livermore, CA. Twelve retail stores and two restaurants occupy the tenant spaces at the site. Site investigation conducted in October 1990 indicated that one of the tenants, Mike's OneHour Cleaners, has been identified as the source of soil and groundwater contamination. Available information indicates that the principal contaminant, tetrachloro-ethylene (PCE), was routinely discharged into the floor drain which leads to a broken 4" diameter sewer line. The practice is reported to predate Mike's operation. PCE was dissolved in the soil by constant water flow through the sewer line. The dissolved PCE ultimately entered the groundwater spreading in the direction of groundwater movement (to the north). Groundwater monitoring was then initiated under the supervision of the Alameda County and SF Regional Water Quality Control Board. Potential exposure pathways were evaluated and the possibility of PCE impacting the drinking water aquifers used by the city of Livermore was noted. PCE as high as 1,300 ppb was detected in groundwater samples. A remedial plan/preliminary remedial design is currently underway with the RWQCB acting as lead agency. SFRWQCB has issued a Tentative Site Clean-Up Order (SCO) on June 23, 1993 w/c includes DTSCs review of the Baseline Health Risk Assessment. A pilot study is being conducted which included construction of a vapor extraction treatment unit in the service area behind the Arcade. Groundwater monitoring is ongoing. (04/22/93)

Site: WINTERFELD, GEORGE  
Address: 318 ADELLE ST  
City: LIVERMORE  
Map Loc: 41 - within 1/4 mile N of the subject  
Status: id: 0176001211051980 76 00 00

RECEIVED QUESTIONNAIRE. NO PROBLEM. (11/05/80)

Site: FRANKLIN OPTICAL  
Address: 22 FENTON ST  
City: LIVERMORE  
Map Loc: 47 - within 1/4 - 1/2 mile SW of the subject  
Status: id: 0150001512041980 50 00 00

RECEIVED QUESTIONNAIRE. NO PROBLEM. (12/04/80)

Site: CLINI PATH LABS INC  
Address: 1171 MURRIETA BLVD  
City: LIVERMORE  
Map Loc: 34 - within 1/4 mile SW of the subject  
Status: id: 0180001508051980 80 0 .00 00

QUESTIONNAIRE RECEIVED. NO PROBLEM. (08/05/80)

This database is a consolidation of information from various sources. It is maintained by the State Office of Planning and Research and lists potential and confirmed hazardous waste or substances sites.

Facilities that have been reported elsewhere in this report will not be included in the listing below.

Status Codes:	WRCBT	Tank leaks. Compiled by Water Resource Control Board
	DHS1	Abandoned hazardous waste site. Compiled by Toxic Substance Control Div. of DHS
	DHS2	Contaminated public water drinking wells serving less than 200 connections. Compiled by Env. Health Div. of DHS
	DHS3	Contaminated public water drinking wells serving more than 200 connections
	DHS5	Sites pursuant to section 25356 of the Health and Safety Code (see BEP)
	CWMB	Solid waste disposal sites with known migration of hazardous waste

*No listings within 1 mile radius of the subject site.*

LUST Leaking Underground Storage Tanks - California State

The Leaking Underground Storage Tanks Information System is maintained by the State Water Resource Board pursuant to Section 25295 of the Health and Safety Code.

Status Codes:	0	No action
	1	Leak being confirmed
	3A	Prel site assessment workplan submitted
	3B	Prel site assessment underway
	5C	Pollution characterization
	5R	Remediation plan
	7	Remedial action underway
	8	Post remedial action monitoring
	9	Case closed
	P	Case purged from agency list

This list has been researched within 1 mile radius of the subject site.

Site: CHEVRON  
Address: 1334 1ST ST  
City: LIVERMORE  
Map Loc: 2 - within 1/4 mile NW of the subject  
Status: 9 - Case Closed.

A release, caused by overfilling, from a tank, of Waste oil was reported on 03/22/94. It was discovered during tank closure, and stopped on 03/11/94 by closing the tank. No remedial action has yet been taken at the site. The case, 01-0321, is managed by a Local agency, and was last reviewed on 03/17/94.

- The case was closed 06/23/97.

REQ. CASE CLOSURE 02/26/97..CASE CLOSED 7/97

Site: GERALD E MCPEAK  
Address: 1453 1ST ST  
City: LIVERMORE  
Map Loc: 3 - within 1/4 mile SW of the subject  
Status: 9 - Case Closed.

A release from a tank, of Waste oil was reported on 04/03/90. It was discovered during tank closure, and stopped on 04/03/90 by closing the tank. The contaminated soil has been excavated and disposed in an approved site. The case, 01-1640, is managed by a Local agency, and was last reviewed on 04/03/90.

- The leak was confirmed on 04/01/92.
- Preliminary Site Assessment was started on 04/17/91.
- The case was closed 12/04/95.

ARCHIVED 6/6/96 CONTROL NO 120-092 SRC 0904742

Site: RYNCK TIRE CENTER  
Address: 1485 1ST ST  
City: LIVERMORE  
Map Loc: 7 - within 1/4 mile E of the subject  
Status: 9 - Case Closed.

A release from a tank, of Waste oil was reported on 11/17/93. It was discovered during tank closure, and stopped on 11/17/94 by closing the tank. Only the soil is impacted. The contaminated soil has been excavated and disposed in an approved site. The case, 01-2157, is managed by a Local agency, and was last reviewed on 11/16/93.

- Preliminary Site Assessment workplan was submitted on 07/09/96.
- The case was closed 12/30/96.

REQ CASE CLOSURE-07/09/96. CASE CLOSED...12/30/96

Site: BEACON  
Address: 1619 1ST ST  
City: LIVERMORE  
Map Loc: 20 - within 1/4 mile E of the subject  
Status: 5C - Pollution characterization.

A release from a tank, of Waste oil was reported on 03/16/90. It was discovered during tank closure, and stopped on 03/16/90 by closing the tank. The contaminated soil has been excavated and disposed in an approved site. The case, 01-1527, is managed by a Local agency, and was last reviewed on 03/16/90.

- The leak was confirmed on 04/27/92.
- Preliminary Site Assessment workplan was submitted on 06/01/93.
- Pollution characterization was started on 05/19/95.

POSSIBLY BEACON IS AN OFFSITE SOURCE FOR LIVERMORE ARCADE;LOP UPDATE-10/21/93

Site: DEPAOLI PROPERTY  
Address: 1679 1ST ST  
City: LIVERMORE  
Map Loc: 19 - within 1/4 mile E of the subject  
Status: 9 - Case Closed.

A release from a tank, of Oil&grease wste was reported on 09/24/90. It was discovered during tank closure, and stopped on 09/24/90 by closing the tank. Only the soil is impacted. The contaminated soil has been excavated and disposed in an approved site. The case, 01-0485, is managed by a Local agency, and was last reviewed on 09/24/90.

- The case was closed 01/14/91.

ARCHIVED 6/6/96 CONTROL NO 120-077 SRC 0904727

Site: RYNCK TIRE CENTER  
Address: 1682 1ST ST  
City: LIVERMORE  
Map Loc: 25 - within 1/4 mile E of the subject  
Status: 9 - Case Closed.

A release from a tank, of Waste oil was reported on 07/01/96. It was discovered during tank closure, and stopped on 07/01/96 by closing the tank. Only the soil is impacted. The contaminated soil has been excavated and disposed in an approved site. The case, 01-2159, is managed by a Local agency, and was last reviewed on 07/01/96.

- The leak was confirmed on 07/16/96.
- The case was closed 07/03/96.



REQ CASE CLOSURE-07/16/96;CASE CLOSED-8/20/96! CASE CLOSED AGAIN 12/30/96...a

Site: UNOCAL  
Address: 1771 1ST ST  
City: LIVERMORE  
Map Loc: 32 - within 1/4 mile E of the subject  
Status: 9 - Case Closed.

A release from a tank, of Gasoline was reported on 06/24/93. It was discovered during tank closure, and stopped on 06/24/93 by closing the tank. No remedial action has yet been taken at the site. The case, 01-1917, is managed by a Local agency, and was last reviewed on 01/27/98.

- The leak was confirmed on 06/24/93.

8000 PPB MTBE IN SOIL.

Site: DESERT PETROLEUM BP  
Address: 2008 1ST ST  
City: LIVERMORE  
Map Loc: 51 - within 1/4 - 1/2 mile E of the subject  
Status: 7 - Remedial Action underway.

A release from a tank, of Gasoline was reported on 02/23/88. It was discovered during tank closure, and stopped on 03/03/88 by closing the tank. No remedial action has yet been taken at the site. The case, 01-1008, is managed by a Local agency, and was last reviewed on 02/23/88.

- Preliminary Site Assessment workplan was submitted on 01/01/65.

NEED ANOTHER MW PROXIMAL TO SOIL CONT. MTBE PLUME EXISTS. 6/15/95 URF;8/25/95 URF. .WORKPLAN ADDENDUM SUBMITTED: 1/4/01(HAVE NOT DEFINED PLUME BOUNDARIES. MS-MW1 HAS FP. CURRENT MTBE 12/7/00.

Site: NORTH K ASSOCIATES  
Address: 2322 2322 38 1ST ST  
City: LIVERMORE  
Map Loc: 77 - within 1/2 - 3/4 mile E of the subject  
Status: 9 - Case Closed.

A release from a tank, of Gasoline was reported on 02/09/91. It was discovered during tank closure, and stopped on 02/09/91 by closing the tank. Only the soil is impacted. The contaminated soil has been excavated and treated, e.g. landfarming. The contaminated soil has been excavated and disposed in an approved site. The case, 01-1059, is managed by a Local agency, and was last reviewed on 02/09/91.

- Preliminary Site Assessment was started on 03/03/92.  
- The case was closed 10/28/94.

CASE CLOSED 10/94

Site: PACIFIC BELL  
Address: 2388 2ND ST  
City: LIVERMORE  
Map Loc: 80 - within 1/2 - 3/4 mile E of the subject  
Status: 9 - Case Closed.

A release from a tank, of Diesel was reported on 10/21/94. Only the soil is impacted. The case, 01-2130, is managed by a Local agency, and was last reviewed on 11/03/91.

- The leak was confirmed on 01/26/96.  
- The case was closed 02/06/96.

WAS 01NCY0290. REQ CASE CLOSURE 1/26/96; CASE CLOSED!!

Site: INTERNATIONAL AUTO CAR  
Address: 2551 2ND ST  
City: LIVERMORE  
Map Loc: 86 - within 3/4 - 1 mile E of the subject  
Status: 9 - Case Closed.

A release from a tank, of Diesel was reported on 05/23/91. It was discovered during tank closure, and stopped on 05/23/91 by closing the tank. Only the soil is impacted. The contaminated soil has been excavated and treated, e.g. landfarming. The case, 01-0799, is managed by a Local agency, and was last reviewed on 05/23/91.

- The case was closed 05/09/91.

CASE CLOSED 05/91

Site: J & W DEVELOPMENT  
Address: 2920 4TH ST  
City: LIVERMORE  
Map Loc: 100 - within 3/4 - 1 mile E of the subject  
Status: 9 - Case Closed.

A release from a tank, of Gasoline was reported on 08/28/89. It was discovered during tank closure, and stopped on 08/28/89 by closing the tank. Only the soil is impacted. The contaminated soil has been excavated and treated, e.g. landfarming. The case, 01-0810, is managed by a Local agency, and was last reviewed on 08/29/89.

- Preliminary Site Assessment was started on 02/11/93.  
- The case was closed 11/23/94.

ARCHIVED 6/6/96 CONTROL NO 120-080 SRC 0904730

Site: AMERICAN SAVINGS BANK  
Address: 1429 COLLEGE AVE  
City: LIVERMORE  
Map Loc: 33 - within 1/4 mile S of the subject  
Status: 9 - Case Closed.

A release from a tank, of Gasoline was reported on 08/06/93. It was discovered during tank closure, and stopped on 08/08/93 by closing the tank. Only the soil is impacted. No remedial action has yet been taken at the site. The case, 01-2029, is managed by a Local agency, and was last reviewed on 12/27/93.

- The case was closed 01/27/95.

ARCHIVED 6/6/96 CONTROL NO 120-094 SRC 0904744

Site: LIVERMORE GAS AND MINI MART  
Address: 160 HOLMES ST  
City: LIVERMORE  
Map Loc: 12 - within 1/4 mile SW of the subject  
Status: 9 - Case Closed.

A release from a tank, of Gasoline was reported on 03/23/99. It was discovered during tank closure, and stopped on 03/23/99 by closing the tank. The case, 01-2482, is managed by a Local agency, and was last reviewed on 03/23/99.

- The leak was confirmed on 03/05/99.

3/5/99-GW GRAB SAMPLE 60000 PPB MTBE.

Site: ARROW RENTALS  
Address: 187 N L ST  
City: LIVERMORE  
Map Loc: 57 - within 1/4 - 1/2 mile NE of the subject  
Status: 3B - Prelim Site Assessment underway.

A release from a tank, of Gasoline was reported on 03/29/89. It was discovered during tank closure, and stopped on 03/29/89 by closing the tank. No remedial action has yet been taken at the site. The case, 01-0124, is managed by a Local agency, and was last reviewed on 03/29/89.

- The leak was confirmed on 11/03/92.
- Preliminary Site Assessment workplan was submitted on 05/21/90, and started on 01/01/65.

LOP UPDATE--10/21/93. POSSIBLE OFFSITE CONTAMINATION, WP SUBMITTED 2/90.

Site: GROTH BROTHERS OLDSMOBILE  
Address: 59 S L ST  
City: LIVERMORE  
Map Loc: 48 - within 1/4 - 1/2 mile E of the subject  
Status: 3B - Prelim Site Assessment underway.

A release from a tank, of Waste oil was reported on 10/01/90. It was discovered during tank closure, and stopped on 10/01/90 by closing the tank. The contaminated soil has been excavated and disposed in an approved site. The case, 01-1788, is managed by a Local agency, and was last reviewed on 03/08/91.

- The leak was confirmed on 03/23/92.
- Preliminary Site Assessment was started on 01/01/65.

1 TANK REMOVED 10/90, 2 TANK TO BE ABANDONED; LOP UPDATE--10/21/93. REQ. CC 12/5/97. . . INTENT FOR NFA FROM ACHD 12/13/99.

Site: LAIDLAW TRANSIT INC  
Address: 2900 LADD AVE  
City: LIVERMORE  
Map Loc: 95 - within 3/4 - 1 mile NE of the subject  
Status: 3B - Prelim Site Assessment underway.

A release from a tank, of Waste oil was reported on 06/15/90. It was discovered during tank closure, and stopped on 06/15/90 by closing the tank. The contaminated soil has been excavated and disposed in an approved site. The case, 01-0919, is managed by a Local agency, and was last reviewed on 06/15/90.

- Preliminary Site Assessment workplan was submitted on 12/05/90, and started on 01/01/65.

Site: SHELL  
Address: 318 S LIVERMORE AVE  
City: LIVERMORE  
Map Loc: 81 - within 1/2 - 3/4 mile E of the subject  
Status: 9 - Case Closed.

A release from a tank, of Gasoline was reported on 12/14/89. It was discovered during tank closure, and stopped on 12/14/89 by closing the tank. Only the soil is impacted. The contaminated soil has been excavated and disposed in an approved site. The case, 01-1354, is managed by a Local agency, and was last reviewed on 12/14/89.

- Preliminary Site Assessment workplan was submitted on 02/27/89, and started on 02/18/90.
- Pollution characterization was started on 11/06/92.
- The case was closed 09/29/95.

ARCHIVED 6/6/96 CONTROL NO 120-088 SRC 0904738

Site: ROBERT & EDNA CARPENTER  
Address: 524 S LIVERMORE AVE  
City: LIVERMORE  
Map Loc: 87 - within 3/4 - 1 mile E of the subject  
Status: 9 - Case Closed.

A release from a tank, of Heater fuel was reported on 01/15/91. It was discovered during tank closure, and stopped on 01/24/91 by closing the tank. Only the soil is impacted. The contaminated soil has been excavated and disposed in an approved site. The case, 01-0283, is managed by a Local agency, and was last reviewed on 01/15/91.

- The leak was confirmed on 01/24/91.
- The case was closed 01/28/94.

ARCHIVED 6/6/96 CONTROL NO 120-074 SRC 0904724

Site: ERICSON PROPERTY  
Address: 444 N N ST  
City: LIVERMORE  
Map Loc: 55 - within 1/4 - 1/2 mile N of the subject  
Status: 9 - Case Closed.

A release from a tank, of Waste oil was reported on 06/11/91. It was discovered during tank closure, and stopped on 06/11/91 by closing the tank. Only the soil is impacted. The contaminated soil has been excavated and disposed in an approved site. The case, 01-0570, is managed by a Local agency, and was last reviewed on 06/11/91.

- The case was closed 06/21/91.

ARCHIVED 6/6/96 CONTROL NO 120-078 SRC 0904728

Site: BEACON  
Address: 2620 OLD 1ST ST  
City: LIVERMORE  
Map Loc: 88 - within 3/4 - 1 mile NE of the subject  
Status: 5C - Pollution characterization.

A release from a tank, of Gasoline was reported on 04/04/91. It was discovered during tank closure, and stopped on 05/30/91 by closing the tank. The contaminated soil has been excavated and disposed in an approved site. The case, 01-1528, is managed by a Local agency, and was last reviewed on 04/04/91.

- Preliminary Site Assessment was started on 03/22/91.
- Pollution characterization was started on 03/02/93.

CURRENT MTBE DATE: 9/15/98 FROM VAPOR EXTRACTION WELL. 82PPM LEAD IN SOIL.  
MAXGW/SOIL=TPHG. ACHD REQ CC - 1/27/99.

Site: LIVERMORE GERMAN AUTO  
Address: 2730 OLD 1ST ST  
City: LIVERMORE  
Map Loc: 96 - within 3/4 - 1 mile NE of the subject  
Status: 9 - Case Closed.

A release from a tank, of Gasoline was reported on 06/05/90. It was discovered during tank closure, and stopped on 06/05/90 by closing the tank. The contaminated soil has been excavated and disposed in an approved site. The case, 01-0679, is managed by a Local agency, and was last reviewed on 06/05/90.

- The leak was confirmed on 11/16/92.
- The case was closed 09/15/99.

MAXGW=GASOLINE. MAXSOIL=OIL&GREASE. CC PER ACHD 9/15/99.. CURRENT MTBE DATE: 7/31/98  
[MTBE] INACCURATE. MAXGW=GASOLINE.

Site: PORTOLA MEADOWS APT TRACT 5430  
Address: 1830 PORTOLA AVE  
City: LIVERMORE  
Map Loc: 91 - within 3/4 - 1 mile N of the subject  
Status: 9 - Case Closed.

A release from a tank, of Gasoline was reported on 05/10/89. It was discovered during tank closure, and stopped on 05/10/89 by closing the tank. No remedial action has yet been taken at the site. The case, 01-1729, is managed by a Local agency, and was last reviewed on 05/10/89.

- Preliminary Site Assessment workplan was submitted on 05/18/89.
- The case was closed 10/02/95.

FROM LOP LIST. REQ CASE CLOSURE; CASE CLOSED!!

Site: MILL SPRINGS PARK APARTMENTS  
Address: 1809 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 40 - within 1/4 mile NE of the subject  
Status: 9 - Case Closed.

A release from a tank, of Waste oil was reported on 09/29/88. It was discovered during tank closure, and stopped on 09/29/88 by closing the tank. The contaminated soil has been excavated and disposed in an approved site. The case, 01-0973, is managed by a Local agency, and was last reviewed on 09/29/88.

- Remediation Plan was submitted on 10/03/88.
- The case was closed 12/24/93.

ARCHIVED 6/6/96 CONTROL NO 120-082 SRC 0904732

Site: LIVERMORE AGRICULTURAL OFFICE  
Address: 2418 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 79 - within 1/2 - 3/4 mile NE of the subject  
Status: 1 - Leak being confirmed.

A release from a tank, of Misc mvf was reported on 06/22/93. It was discovered during tank closure, and stopped on 06/22/93 by closing the tank. No remedial action has yet been taken at the site. The case, 01-1772, is managed by a Local agency, and was last reviewed on 06/22/93.

- The leak was confirmed on 08/22/96.

1991 URF, REM GAS TNK;SITE A CASE PER ALAMEDA COUTY HEALTH 8/22/96

Site: LIVERMORE CORPORATION YARD  
Address: 2500 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 84 - within 1/2 - 3/4 mile NE of the subject  
Status: 9 - Case Closed.

A release from a tank, of Waste oil was reported on 05/04/93. It was discovered during tank closure, and stopped on 05/04/93 by closing the tank. No remedial action has yet been taken at the site. The case, 01-1697, is managed by a Local agency, and was last reviewed on 05/04/93.

- The case was closed 05/02/96.

ARCHIVED 11/1/96 CONTROL NO 120-106 SRC 0904756

Site: ARCO  
Address: 899 RINCON AVE  
City: LIVERMORE  
Map Loc: 78 - within 1/2 - 3/4 mile NW of the subject  
Status: 5C - Pollution characterization.

A release, caused by overfilling, from a tank, of Gasoline was reported on 12/08/93. It was, and stopped on 12/08/93 by closing the tank. Only the soil is impacted. The contaminated soil has been excavated and disposed in an approved site. The case, 01-0121, is managed by a Local agency, and was last reviewed on 08/24/87.

- Preliminary Site Assessment workplan was submitted on 09/20/90, and started on 01/15/91.
- Pollution characterization was started on 10/21/91.

FP 11/92. 10/21 ADD'L SSIR & WP, 2/3 ENCROACH. PERMIT;

Site: ARCO  
Address: 785 E STANLEY BLVD

City: LIVERMORE  
Map Loc: 76 - within 1/2 - 3/4 mile W of the subject  
Status: 5C - Pollution characterization.

A release from a tank, of Waste oil was reported on 01/26/89. It was discovered during tank closure, and stopped on 01/26/89 by closing the tank. The contaminated soil has been excavated and disposed in an approved site. The case, 01-0119, is managed by a Local agency, and was last reviewed on 01/26/89.

- Preliminary Site Assessment workplan was submitted on 12/06/90, and started on 09/20/89.
- Pollution characterization was started on 02/15/91.

10/21 WP/SVE. 1/10 COMMENTS WP. 3/4 ADD WP. 8/29/95 URF

Site: SHELL  
Address: 809 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 69 - within 1/4 - 1/2 mile W of the subject  
Status: 1 - Leak being confirmed.

A release from a tank, of Misc mvf was reported on 06/15/90. It was discovered during tank closure, and stopped on 06/15/90 by closing the tank. No remedial action has yet been taken at the site. The case, 01-1382, is managed by a Local agency, and was last reviewed on 06/15/90.

- The leak was confirmed on 08/22/96.

SENT FILE TO ACHD 11/94; SITE A CASE PER ALAMEDA COUNTY HEALTH, 8/22/96

Site: VALLEY MEMORIAL HOSPITAL  
Address: 1111 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 24 - within 1/4 mile W of the subject  
Status: 9 - Case Closed.

A release from a tank, of Diesel was reported on 05/18/92. It was discovered during tank testing, and stopped on 08/18/92 by closing the tank. Only the soil is impacted. No remedial action has yet been taken at the site. The case, 01-0954, is managed by a Local agency, and was last reviewed on 09/14/92.

- The case was closed 06/01/95.

ARCHIVED 6/6/96 CONTROL NO 120-082 SRC 0904732

Site: K MART  
Address: 1122 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 21 - within 1/4 mile W of the subject  
Status: 3B - Prelim Site Assessment underway.

A release from a tank, of Waste oil was reported on 11/01/90. It was discovered during tank closure, and stopped on 11/01/90 by closing the tank. No remedial action has yet been taken at the site. The case, 01-0835, is managed by a Local agency, and was last reviewed on 11/01/90.

- Preliminary Site Assessment was started on 07/23/90.

.12/26 RF RPTS

Site: J & W DEVELOPMENT  
Address: 330 WOOD ST  
City: LIVERMORE  
Map Loc: 94 - within 3/4 - 1 mile E of the subject  
Status: 9 - Case Closed.

A release from a tank, of Gasoline was reported on 08/29/89. It was discovered during tank closure, and stopped on 08/29/89 by closing the tank. Only the soil is impacted. No remedial action has yet been taken at the site. The case, 01-0807, is managed by a Local agency, and was last reviewed on 08/29/89.

- Preliminary Site Assessment workplan was submitted on 05/30/90.
- The case was closed 10/28/94.

ARCHIVED 6/6/96 CONTROL NO 120-095 SRC 0904745

SWIS Solid Waste Information System

As legislated under the Solid Waste Management and Resource Recovery Act of 1972, the California Waste Management Board maintains lists of certain facilities, i.e. Active solid waste disposal sites, Inactive or Closed solid waste disposal sites and Transfer facilities.

*No listings within 1 mile radius of the subject site.*

WIP Well Investigation Program

The Well Investigation Program (AB1803) identifies groundwater that is already contaminated and empowers the California Department of Health Services and local health officers to order ongoing monitoring programs. The focus of this program is to monitor and protect drinking water.

This list has been researched within 1 mile radius of the subject site.

Site: WELL 10-01 dhs0  
Address: CWS LIVERMORE  
City: 03S/02E-08F01 M  
Map Loc: 72 - within 1/4 - 1/2 mile NW of the subject  
Status:

3.500 ppb of CHLOROFORM (action level 100.0) was reported by DHS-AB21.  
5.800 ppb of MIK was reported by DHS-AB21.  
9.100 ppb of BDCM (action level 100.0) was reported on 01/25/88 by DHS-AB21.  
23.09 ppb of PCE (action level 5.0) was reported on 10/16/85 by DHS-AB21.  
0.700 ppb of TOLUENE (action level 100.0) was reported by DHS-AB21.  
34.90 ppb of TOTAL THMS (action level 100.0) was reported by DHS-AB21.  
1.500 ppb of EB (action level 680.0) was reported by DHS-AB21.  
9.100 ppb of DBCM (action level 100.0) was reported by DHS-AB21.  
14.50 ppb of BROMOFORM (action level 100.0) was reported by DHS-AB21.

Site: WELL 10-01 dhs0  
Address: CWS LIVERMORE  
City: 03S/02E-08G01 M  
Map Loc: 82 - within 1/2 - 3/4 mile N of the subject  
Status:

1.200 ppb of PCE (action level 5.0) was reported on 09/11/89 by DHS-AB21.

Site: WELL 08-01 dhs0  
Address: CWS LIVERMORE  
City: 03S/02E-08P01 M  
Map Loc: 29 - within 1/4 mile NW of the subject  
Status:

0.900 ppb of TCE (action level 5.0) was reported on 05/08/86 by DHS-AB21.  
2.40 ppb of FREON 11 (action level 150.0) was reported on 06/05/89 by DHS-AB1803.

Site: WELL 03-01 dhs0  
Address: CWS LIVERMORE  
City: 03S/02E-08P02 M  
Map Loc: 29 - within 1/4 mile NW of the subject  
Status:

0.900 ppb of CHLOROFORM (action level 100.0) was reported on 05/28/86 by DHS-AB21.

Site: WELL 17-01 dhs0  
Address: CWS LIVERMORE  
City: 03S/02E-09L01 M  
Map Loc: 97 - within 3/4 - 1 mile E of the subject  
Status:

20.10 ppb of FREON 11 (action level 150.0) was reported on 05/10/89 by DHS-AB21.  
0.50 ppb of 1,1,1-TCA (action level 200.0) was reported by DHS-AB1803.  
245.9 ppb of FREON 12 was reported by DHS-AB21.

WQ Drinking Water Program

The California Health and Safety Code section 116275-116300 stipulates that it is the intent of the Legislature to improve laws governing drinking water quality to improve upon the minimum requirements of the federal Safe Drinking Water Act Amendments of 1986, to establish primary drinking water standards that are at least as stringent as those established under the federal Safe Drinking Water Act, and to establish a program under this chapter that is more protective of public health than the minimum federal requirements.

In order to provide for the orderly and efficient delivery of safe drinking water the State Department of Health Services collect information on the quality of public drinking water wells under the California Drinking Program.

Below, the latest and maximum analysis of contaminants are reported (only positive reading are included). MCL is the Maximum Contaminant Level or enforceable drinking water standard. RPHL is the Recommended Public Health Level. Additional information is available from BBL upon request.

This list has been researched within 1 mile radius of the subject site.

Owner: CALIFORNIA WATER SERVICE - LIV  
Well: WELL 10-01  
WellNo: 03S/02E-08F01 M  
Map Loc: 72 - within 1/4 - 1/2 mile NW of the subject  
Status: AR - Active Raw (sampled before treatment)

WATER QUALITY:

		units	latest		maximum	MCL/RPHL
SOURCE TEMPERATURE C	C	20	4/27/99	21	6/30/86	
COLOR	UNITS	3	4/27/99	1	6/3/88	15/-
SPECIFIC CONDUCTANCE	US	889	4/27/99	870	6/30/86	2200/-
PH, LABORATORY		7.45	4/27/99	7.41	6/30/86	
ALKALINITY (TOTAL) AS CaCO3	MG/L	297	4/27/99	299	6/30/86	
BICARBONATE ALKALINITY	MG/L	361	4/27/99	363	6/30/86	
CARBONATE ALKALINITY	MG/L	.7	4/27/99	.6	6/30/86	
PHOSPHATE	UG/L	.09	4/27/99	.24	6/30/86	
HARDNESS (TOTAL) AS CaCO3	MG/L	412	4/27/99	428	6/30/86	
CALCIUM	MG/L	50	4/27/99	54	6/30/86	
MAGNESIUM	MG/L	60	4/27/99	71	6/30/86	
SODIUM	MG/L	35	4/27/99	34	6/30/86	
SODIUM ABSORPTION RATIO		35	4/27/99	.71	6/30/86	
POTASSIUM	MG/L	1.6	4/27/99	1.7	6/30/86	
CHLORIDE	MG/L	71	4/27/99	70	6/30/86	600/-
SULFATE	MG/L	53	4/27/99	68	6/30/86	600/-
FLUORIDE (TEMPERATURE DEPENDENT)	MG/L	.1		7/30/96	.12	6/30/86 1.7/-
SILICA	MG/L	26	7/30/96	34	6/30/86	
BARIUM	UG/L	419	4/27/99	400	6/3/88	1000/-
CHROMIUM, HEXAVALENT	UG/L	7	7/18/1	7	1/31/1	
CHROMIUM (TOTAL)	UG/L	10	1/31/1	10	7/21/92	50/-
COPPER	UG/L	260	7/21/92	260	7/21/92	1000/-
NICKEL	UG/L	11	7/30/96	11	7/30/96	100/-
GROSS ALPHA	PCI/L	2.71	3/19/1	.5	6/3/88	15/-
GROSS ALPHA COUNTING ERROR	PCI/L	.4	5/24/1	1.3	6/3/88	
BROMODICHLORMETHANE (THM)	UG/L	.6	11/4/96	9.1	1/25/88	100/-



BROMOFORM (THM)	UG/L	.8	7/6/1	13.2	1/25/88	100/-
DIBROMOCHLOROMETHANE (THM)	UG/L	1.3	0/0/80	9.1	1/25/88	100/-
CHLOROFORM (THM)	UG/L	1.2	6/23/92	3.5	1/25/88	100/-
TOLUENE	UG/L	.7	2/8/88	.7	2/8/88	150/-
MONOCHLOROBENZENE	UG/L	2.2	5/5/92	2.2	5/5/92	70/-
ETHYLBENZENE	UG/L	1.5	2/8/88	1.5	2/8/88	700/-
TETRACHLOROETHYLENE	UG/L	10.4	3/6/2	1.7	7/25/84	5/-
DICHLORODIFLUOROMETHANE	UG/L	1.5	3/6/2	1.3	9/5/96	
FOAMING AGENTS (MBAS)	UG/L	.02	7/30/96	.02	7/30/96	500/-
DI(2-ETHYLHEXYL)PHTHALATE	UG/L	4.09	8/24/94	5.32	10/15/91	4/-
DI-N-BUTYLPHTHALATE	UG/L	6.16	8/24/94	6.16	8/24/94	
TOTAL DISSOLVED SOLIDS	MG/L	525	4/27/99	563	6/30/86	1500/-
LANGELIER INDEX @ 60 C		.16	6/30/86	.16	6/30/86	
LANGELIER INDEX AT SOURCE TEMP.		.089		4/27/99	.37	6/3/88
NITRATE (AS NO3)	MG/L	39	11/6/1	51	6/30/86	45/-
IODIDE	UG/L	.018	7/21/92	.012	6/30/86	
XYLENES (TOTAL)	UG/L	1.6	2/9/88	4.2	2/8/88	1750/-
METHYL ETHYL KETONE	UG/L	1.8	2/9/88	1.8	2/9/88	
METHYL ISOBUTYL KETONE	UG/L	1.8	2/9/88	5.8	2/8/88	
TURBIDITY, LABORATORY	NTU	.05	7/30/96	.25	6/30/86	5/-
TOTAL TRIHALOMETHANES	UG/L	.8	7/6/1	34.9	1/25/88	100/-
DI(2-ETHYLHEXYL)ADIPATE	UG/L	1.36	11/15/94	.45	5/20/92	400/-

Owner: CALIFORNIA WATER SERVICE - LIV  
Well: WELL 19-01  
WellNo: 03S/02E-08G01 M  
Map Loc: 82 - within 1/2 - 3/4 mile N of the subject  
Status: AR - Active Raw (sampled before treatment)

WATER QUALITY:

		units	latest		maximum	MCL/RPHL
SOURCE TEMPERATURE C	C	16.7	11/6/95	20	3/27/89	
COLOR	UNITS	1	6/30/98	1	3/27/89	15/-
SPECIFIC CONDUCTANCE	US	987	6/19/1	930	3/27/89	2200/-
PH, LABORATORY		7.69	6/19/1	7.64	3/27/89	
ALKALINITY (TOTAL) AS CaCO3	MG/L	308	6/19/1	292	3/27/89	
BICARBONATE ALKALINITY	MG/L	373	6/19/1	355	3/27/89	
CARBONATE ALKALINITY	MG/L	1.2	6/19/1	1.1	3/27/89	
PHOSPHATE	UG/L	.14	6/30/98	.16	3/27/89	
HARDNESS (TOTAL) AS CaCO3	MG/L	444	6/19/1	410	3/27/89	
CALCIUM	MG/L	62	6/19/1	53	3/27/89	
MAGNESIUM	MG/L	72	6/19/1	68	3/27/89	
SODIUM	MG/L	36	6/19/1	37	3/27/89	
SODIUM ABSORPTION RATIO		36	6/19/1	.79	3/27/89	
POTASSIUM	MG/L	2	6/19/1	1.9	3/27/89	
CHLORIDE	MG/L	89	6/19/1	71	3/27/89	600/-
SULFATE	MG/L	55	6/19/1	56	3/27/89	600/-
FLUORIDE (TEMPERATURE DEPENDENT)	MG/L	.13	6/19/1	.11	3/27/89	3/27/89 1.7/-
SILICA	MG/L	28	6/30/98	30	3/27/89	
BARIUM	UG/L	300	6/19/1	430	3/27/89	1000/-
BERYLLIUM	UG/L	1	6/30/98	1	6/30/98	4/-
BORON	UG/L	390	12/4/1	390	6/26/1	
CHROMIUM, HEXAVALENT	UG/L	7.9	11/26/1	7.9	11/26/1	
CHROMIUM (TOTAL)	UG/L	11	6/30/98	13	11/6/95	50/-
IRON	UG/L	190	11/6/95	190	11/6/95	300/-
VANADIUM	UG/L	3.3	6/26/1	3.3	6/26/1	
ALUMINUM	UG/L	56	11/6/95	40	7/21/92	1000/-
GROSS ALPHA	PCI/L	1.67	2/12/2	1.1	12/12/89	15/-
GROSS ALPHA COUNTING ERROR	PCI/L	.67	2/12/2	1.2	12/12/89	
BROMODICHLORMETHANE (THM)	UG/L	11	3/1/94	11	3/1/94	100/-
BROMOFORM (THM)	UG/L	4	0/0/80	17.8	6/9/93	100/-
DIBROMOCHLOROMETHANE (THM)	UG/L	1	0/0/80	1.1	6/9/93	100/-
CHLOROFORM (THM)	UG/L	12.5	3/1/94	12.5	3/1/94	100/-
TETRACHLOROETHYLENE	UG/L	2.8	8/20/1	1.1	6/30/88	5/-
TRICHLOROFLUOROMETHANE	UG/L	.5	9/4/92	.5	9/4/92	150/-
DICHLORODIFLUOROMETHANE	UG/L	3.2	8/20/1	.8	6/2/94	
FOAMING AGENTS (MBAS)	UG/L	.04	11/6/95	.02	7/21/92	500/-
DI(2-ETHYLHEXYL)PHTHALATE	UG/L	3.18	8/24/94	3.8	7/28/92	4/-

TOTAL DISSOLVED SOLIDS	MG/L	527	6/19/1	558	3/27/89	1500/-
LANGELIER INDEX AT SOURCE TEMP.		.43		6/19/1	.29	3/27/89
NITRATE (AS NO3)	MG/L	51	11/6/1	55	8/28/87	45/-
IODIDE	UG/L	.022	7/21/92	.016	3/27/89	
TURBIDITY, LABORATORY	NTU	.15	6/19/1	.15	3/27/89	5/-
TOTAL TRIHALOMETHANES	UG/L	4	0/0/80	18.9	6/9/93	100/-
DI(2-ETHYLHEXYL)ADIPATE	UG/L	.76	3/20/95	.47	3/25/92	400/-
CHROMIUM (TOTAL CR-CRVI SCREEN)	UG/L	8		6/19/1	8	6/19/1

Owner: CALIFORNIA WATER SERVICE - LIV  
Well: WELL 04-01 - INACTIVE  
WellNo: 03S/02E-08H01 M  
Map Loc: 83 - within 1/2 - 3/4 mile NE of the subject  
Status: IU - Inactive Untreated

Owner: CALIFORNIA WATER SERVICE - LIV  
Well: WELL 14-01  
WellNo: 03S/02E-08N02 M  
Map Loc: 52 - within 1/4 - 1/2 mile W of the subject  
Status: AU - Active Untreated

WATER QUALITY:

		units	latest		maximum	MCL/RPHL
SOURCE TEMPERATURE C	C	19	0/0/80	20	5/8/86	
COLOR	UNITS	1	5/14/97	7	5/8/86	15/-
SPECIFIC CONDUCTANCE	US	800	0/0/80	795	5/8/86	2200/-
PH, LABORATORY		7.53	0/0/80	7.6	5/8/86	
ALKALINITY (TOTAL) AS CaCO3	MG/L	273	0/0/80	301	5/8/86	
BICARBONATE ALKALINITY	MG/L	332	0/0/80	365	5/8/86	
CARBONATE ALKALINITY	MG/L	1.2	5/14/97	1	5/8/86	
PHOSPHATE	UG/L	.18	5/14/97	.16	5/8/86	
HARDNESS (TOTAL) AS CaCO3	MG/L	347	0/0/80	362	5/8/86	
CALCIUM	MG/L	45	0/0/80	46	5/8/86	
MAGNESIUM	MG/L	54	0/0/80	60	5/8/86	
SODIUM	MG/L	39	0/0/80	37	5/8/86	
SODIUM ABSORPTION RATIO		39	0/0/80	.85	5/8/86	
POTASSIUM	MG/L	1.7	0/0/80	1.8	5/8/86	
CHLORIDE	MG/L	62	0/0/80	56	5/8/86	600/-
SULFATE	MG/L	41	0/0/80	58	5/8/86	600/-
FLUORIDE (TEMPERATURE DEPENDENT)	MG/L	.15	0/0/80	.13	5/8/86	5/8/86 1.7/-
SILICA	MG/L	28	5/14/97	32	5/8/86	
BARIUM	UG/L	329	0/0/80	250	5/8/86	1000/-
CHROMIUM, HEXAVALENT	UG/L	7	7/18/1	6	1/31/1	
CHROMIUM (TOTAL)	UG/L	9	1/31/1	11	6/17/91	50/-
NICKEL	UG/L	30	10/6/94	30	10/6/94	100/-
ALUMINUM	UG/L	50	6/17/91	50	6/17/91	1000/-
GROSS ALPHA	PCI/L	.74	2/12/2	2.5	8/8/88	15/-
GROSS ALPHA COUNTING ERROR	PCI/L	.58	2/12/2	1.7	8/8/88	
BROMOFORM (THM)	UG/L	2.2	2/21/1	1	9/15/93	100/-
TETRACHLOROETHYLENE	UG/L	.8	2/14/2	.6	8/5/99	5/-
FOAMING AGENTS (MBAS)	UG/L	.05	6/17/91	.05	6/17/91	500/-
DI(2-ETHYLHEXYL)PHTHALATE	UG/L	5.51	7/28/92	5.51	7/28/92	4/-
DI-N-BUTYLPHTHALATE	UG/L	5.15	8/24/94	5.15	8/24/94	
TOTAL DISSOLVED SOLIDS	MG/L	455	0/0/80	494	5/8/86	1500/-
LANGELIER INDEX @ 60 C		.29	5/8/86	.29	5/8/86	
LANGELIER INDEX AT SOURCE TEMP.		.088	0/0/80	.22	6/3/88	
NITRATE (AS NO3)	MG/L	16	3/28/1	23	5/8/86	45/-
IODIDE	UG/L	.01	10/6/94	.016	5/8/86	
TURBIDITY, LABORATORY	NTU	.15	0/0/80	.4	5/8/86	5/-
TOTAL TRIHALOMETHANES	UG/L	2.2	2/21/1	1	9/15/93	100/-
DI(2-ETHYLHEXYL)ADIPATE	UG/L	1.01	3/20/95	.73	10/22/90	400/-

Owner: CALIFORNIA WATER SERVICE - LIV  
Well: WELL 08-01

WellNo: 03S/02E-08P01 M  
Map Loc: 29 - within 1/4 mile NW of the subject  
Status: AR - Active Raw (sampled before treatment)

WATER QUALITY:

		units	latest	maximum	MCL/RPHL
SOURCE TEMPERATURE C	C	16	12/13/99	20	7/8/87
COLOR	UNITS	7	7/30/96	1	7/8/87 15/-
SPECIFIC CONDUCTANCE	US	830	12/13/99	928	7/8/87 2200/-
PH, LABORATORY		7.38	12/13/99	7.57	7/8/87
ALKALINITY (TOTAL) AS CaCO3	MG/L	291	12/13/99	313	7/8/87
BICARBONATE ALKALINITY	MG/L	354	12/13/99	380	7/8/87
CARBONATE ALKALINITY	MG/L	1	7/30/96	1	7/8/87
PHOSPHATE	UG/L	.07	7/30/96	.11	7/8/87
HARDNESS (TOTAL) AS CaCO3	MG/L	390	12/13/99	400	7/8/87
CALCIUM	MG/L	63	12/13/99	51	7/8/87
MAGNESIUM	MG/L	62	12/13/99	66	7/8/87
SODIUM	MG/L	37	12/13/99	34	7/8/87
SODIUM ABSORPTION RATIO		35	7/30/96	.74	7/8/87
POTASSIUM	MG/L	1.5	12/13/99	2.2	7/8/87
CHLORIDE	MG/L	70	12/13/99	59	7/8/87 600/-
SULFATE	MG/L	55	12/13/99	56	7/8/87 600/-
FLUORIDE (TEMPERATURE DEPENDENT)	MG/L	.12	12/13/99	.12	7/8/87 1.7/-
SILICA	MG/L	24	7/30/96	24	7/8/87
BARIUM	UG/L	384	12/13/99	360	7/8/87 1000/-
CHROMIUM, HEXAVALENT	UG/L	4.5	11/26/1	3	5/9/1
CHROMIUM (TOTAL)	UG/L	10	5/19/93	10	5/19/93 50/-
IRON	UG/L	100	11/15/90	100	11/15/90 300/-
MANGANESE	UG/L	20	12/13/99	20	12/13/99 50/-
ALUMINUM	UG/L	30	5/19/93	30	5/19/93 1000/-
GROSS ALPHA	PCI/L	1.3	9/4/97	.8	4/28/87 15/-
GROSS ALPHA COUNTING ERROR	PCI/L	.4	10/16/1	.9	4/28/87
BROMODICHLORMETHANE (THM)	UG/L	2.6	0/0/80	1	0/0/80 100/-
BROMOFORM (THM)	UG/L	.53	7/19/1	7.8	8/9/95 100/-
DIBROMOCHLOROMETHANE (THM)	UG/L	3.3	0/0/80	2	8/9/95 100/-
CHLOROFORM (THM)	UG/L	3.4	0/0/80	.7	7/20/99 100/-
TETRACHLOROETHYLENE	UG/L	.57	7/19/1	.8	0/0/80 5/-
DICHLORODIFLUOROMETHANE	UG/L	1.6	0/0/80	1.3	8/9/95
FOAMING AGENTS (MBAS)	UG/L	.03	7/30/96	.03	7/30/96 500/-
DI(2-ETHYLHEXYL)PHTHALATE	UG/L	12.3	10/12/93	3.1	7/28/92 4/-
DI-N-BUTYLPHTHALATE	UG/L	15.2	8/24/94	15.2	8/24/94
TRICHLOROETHYLENE	UG/L	.9	0/0/80	.8	7/25/84 5/-
TOTAL DISSOLVED SOLIDS	MG/L	477	12/13/99	513	7/8/87 1500/-
LANGELIER INDEX AT SOURCE TEMP.		.064	12/13/99	.31	7/8/87
NITRATE (AS NO3)	MG/L	23	11/13/1	26	4/28/87 45/-
IODIDE	UG/L	.009	5/19/93	.007	7/8/87
TURBIDITY, LABORATORY	NTU	.1	12/13/99	.2	7/8/87 5/-
TOTAL TRIHALOMETHANES	UG/L	.53	7/19/1	9.8	8/9/95 100/-
DI(2-ETHYLHEXYL)ADIPATE	UG/L	.76	3/20/95	2.32	7/28/92 400/-

Owner: CALIFORNIA WATER SERVICE - LIV  
Well: WELL 03-01  
WellNo: 03S/02E-08P02 M  
Map Loc: 29 - within 1/4 mile NW of the subject  
Status: AU - Active Untreated

WATER QUALITY:

		units	latest	maximum	MCL/RPHL
SOURCE TEMPERATURE C	C	19	4/28/87	19	4/28/87
ODOR THRESHOLD @ 60 C	TON	1	8/25/99	1	8/25/99 3/-
SPECIFIC CONDUCTANCE	US	820	8/25/99	845	4/28/87 2200/-
PH, LABORATORY		8.24	8/25/99	7.99	4/28/87
ALKALINITY (TOTAL) AS CaCO3	MG/L	290	8/25/99	275	4/28/87
BICARBONATE ALKALINITY	MG/L	290	8/25/99	332	4/28/87
CARBONATE ALKALINITY	MG/L	1.6	5/15/90	2.2	4/28/87

PHOSPHATE	UG/L	.28	5/15/90	.2	4/28/87	
HARDNESS (TOTAL) AS CaCO3	MG/L	370	8/25/99	332	4/28/87	
CALCIUM	MG/L	52	8/25/99	44	4/28/87	
MAGNESIUM	MG/L	59	8/25/99	54	4/28/87	
SODIUM	MG/L	36	8/25/99	38	4/28/87	
SODIUM ABSORPTION RATIO		.88	5/15/90	.91	4/28/87	
POTASSIUM	MG/L	1	8/25/99	2.2	4/28/87	
CHLORIDE	MG/L	57	8/25/99	44	4/28/87	600/-
SULFATE	MG/L	48	8/25/99	49	4/28/87	600/-
FLUORIDE (TEMPERATURE DEPENDENT)	MG/L	.17	5/15/90	.13	4/28/87	4/28/87 1.7/-
SILICA	MG/L	32	5/15/90	34	4/28/87	
BARIUM	UG/L	290	8/25/99	320	4/28/87	1000/-
CHROMIUM (TOTAL)	UG/L	17	8/25/99	14	4/28/87	50/-
GROSS ALPHA	PCI/L	3.1	2/6/91	.6	4/28/87	15/-
GROSS ALPHA COUNTING ERROR	PCI/L	1.5	2/6/91	1.1	4/28/87	
CHLOROFORM (THM)	UG/L	3.8	0/0/80	.9	5/28/86	100/-
FOAMING AGENTS (MBAS)	UG/L	.14	8/25/99	.14	8/25/99	500/-
TOTAL DISSOLVED SOLIDS	MG/L	470	8/25/99	450	4/28/87	1500/-
LANGELIER INDEX @ 60 C		1.4	8/25/99	1.4	8/25/99	
LANGELIER INDEX AT SOURCE TEMP.		.62		4/28/87	.62	4/28/87
NITRATE (AS NO3)	MG/L	12	0/0/80	19	4/28/87	45/-
IODIDE	UG/L	.012	5/15/90	.012	4/28/87	
TURBIDITY, LABORATORY	NTU	.1	5/15/90	.5	4/28/87	5/-
TOTAL TRIHALOMETHANES	UG/L	3.8	0/0/80	3.8	0/0/80	100/-

Owner: CALIFORNIA WATER SERVICE - LIV  
Well: WELL 17-01  
WellNo: 03S/02E-09L01 M  
Map Loc: 97 - within 3/4 - 1 mile E of the subject  
Status: AR - Active Raw (sampled before treatment)

WATER QUALITY:

		units	latest		maximum	MCL/RPHL
SOURCE TEMPERATURE C	C	10.6	5/14/97	21	6/3/88	
COLOR	UNITS	10	5/14/97	1	6/3/88	15/-
SPECIFIC CONDUCTANCE	US	898	5/14/97	1000	6/3/88	2200/-
PH, LABORATORY		7.76	5/14/97	7.62	6/3/88	
ALKALINITY (TOTAL) AS CaCO3	MG/L	302	5/14/97	270	6/3/88	
BICARBONATE ALKALINITY	MG/L	365	5/14/97	328	6/3/88	
CARBONATE ALKALINITY	MG/L	1.4	5/14/97	.9	6/3/88	
PHOSPHATE	UG/L	.25	5/14/97	.25	6/3/88	
HARDNESS (TOTAL) AS CaCO3	MG/L	439	5/14/97	416	6/3/88	
CALCIUM	MG/L	61	5/14/97	55	6/3/88	
MAGNESIUM	MG/L	79	5/14/97	67	6/3/88	
SODIUM	MG/L	51	5/14/97	47	6/3/88	
SODIUM ABSORPTION RATIO		51	5/14/97	1	6/3/88	
POTASSIUM	MG/L	2	5/14/97	1.6	6/3/88	
CHLORIDE	MG/L	110	5/14/97	92	6/3/88	600/-
SULFATE	MG/L	51	5/14/97	54	6/3/88	600/-
FLUORIDE (TEMPERATURE DEPENDENT)	MG/L	.12	5/14/97	.15	6/3/88	6/3/88 1.7/-
SILICA	MG/L	28	5/14/97	32	6/3/88	
BARIUM	UG/L	448	5/14/97	350	6/3/88	1000/-
BORON	UG/L	500	11/7/1	460	6/26/1	
CHROMIUM, HEXAVALENT	UG/L	6.2	12/20/1	4	5/9/1	
CHROMIUM (TOTAL)	UG/L	15	5/14/97	14	6/17/91	50/-
IRON	UG/L	660	5/14/97	350	10/6/94	300/-
ZINC	UG/L	50	10/6/94	50	10/6/94	
ALUMINUM	UG/L	148	10/6/94	60	6/17/91	1000/-
GROSS ALPHA	PCI/L	1.59	1/16/2	1.7	6/3/88	15/-
GROSS ALPHA COUNTING ERROR	PCI/L	.73	1/16/2	1.6	6/3/88	
TRICHLOROFLUOROMETHANE	UG/L	4.7	12/13/1	.7	9/3/86	150/-
DICHLORODIFLUOROMETHANE	UG/L	4.7	12/13/1	4	5/15/85	
FOAMING AGENTS (MBAS)	UG/L	.03	5/14/97	.05	6/17/91	500/-
TOTAL DISSOLVED SOLIDS	MG/L	612	5/14/97	591	6/3/88	1500/-
LANGELIER INDEX AT SOURCE TEMP.		.34		5/14/97	.26	6/3/88
NITRATE (AS NO3)	MG/L	60	12/29/99	80	6/3/88	45/-
IODIDE	UG/L	.027	10/6/94	.024	6/3/88	
TURBIDITY, LABORATORY	NTU	1.5	5/14/97	.15	6/3/88	5/-
D(2-ETHYLHEXYL)ADIPATE	UG/L	.51	3/20/95	.68	3/25/92	400/-

Owner: CALIFORNIA WATER SERVICE - LIV  
Well: WELL 12-01  
WellNo: 03S/02E-09P01 M  
Map Loc: 90 - within 3/4 - 1 mile E of the subject  
Status: AR - Active Raw (sampled before treatment)

WATER QUALITY:

		units	latest		maximum	MCL/RPHL
SOURCE TEMPERATURE C	C	21	5/14/97	21	6/30/86	
COLOR	UNITS	8	5/14/97	1	6/3/88	15/-
SPECIFIC CONDUCTANCE	US	785	5/14/97	780	6/30/86	2200/-
PH, LABORATORY		7.85	5/14/97	7.53	6/30/86	
ALKALINITY (TOTAL) AS CaCO3	MG/L	266	5/14/97	261	6/30/86	
BICARBONATE ALKALINITY	MG/L	321	5/14/97	317	6/30/86	
CARBONATE ALKALINITY	MG/L	1.5	5/14/97	.7	6/30/86	
PHOSPHATE	UG/L	.14	5/14/97	.39	6/30/86	
HARDNESS (TOTAL) AS CaCO3	MG/L	390	5/14/97	358	6/30/86	
CALCIUM	MG/L	49	5/14/97	49	6/30/86	
MAGNESIUM	MG/L	78	5/14/97	57	6/30/86	
SODIUM	MG/L	40	5/14/97	37	6/30/86	
SODIUM ABSORPTION RATIO		40	5/14/97	.85	6/30/86	
POTASSIUM	MG/L	2.2	5/14/97	1.7	6/30/86	
CHLORIDE	MG/L	91	5/14/97	65	6/30/86	600/-
SULFATE	MG/L	44	5/14/97	53	6/30/86	600/-
FLUORIDE (TEMPERATURE DEPENDENT)	MG/L	.1	5/14/97	.14	6/30/86	6/30/861.7/-
SILICA	MG/L	28	5/14/97	26	6/30/86	
BARIUM	UG/L	418	5/14/97	330	6/3/88	1000/-
BORON	UG/L	460	2/26/2	460	2/26/2	
CHROMIUM, HEXAVALENT	UG/L	4	7/25/1	5	1/31/1	
CHROMIUM (TOTAL)	UG/L	12	1/31/1	18	12/11/91	50/-
IRON	UG/L	110	5/14/97	110	5/14/97	300/-
NICKEL	UG/L	14	5/14/97	17	10/6/94	100/-
ALUMINUM	UG/L	101	5/14/97	101	5/14/97	1000/-
GROSS ALPHA	PCI/L	.29	1/16/2	.2	6/3/88	15/-
GROSS ALPHA COUNTING ERROR	PCI/L	.56	1/16/2	1.1	6/3/88	
TRICHLOROFLUOROMETHANE	UG/L	.6	8/9/95	.6	8/9/95	150/-
DICHLORODIFLUOROMETHANE	UG/L	4.6	8/5/99	2.5	8/9/95	
FOAMING AGENTS (MBAS)	UG/L	.03	5/14/97	.03	5/14/97	500/-
DI(2-ETHYLHEXYL)PHTHALATE	UG/L	3.57	5/20/92	3.57	5/20/92	4/-
HEPTACHLOR EPOXIDE	UG/L	.008	5/16/90	.008	5/16/90	
TOTAL DISSOLVED SOLIDS	MG/L	530	5/14/97	499	6/30/86	1500/-
LANGELIER INDEX @ 60 C		.17	6/30/86	.17	6/30/86	
LANGELIER INDEX AT SOURCE TEMP.		.441	5/14/97	.38	6/3/88	6/3/88
NITRATE (AS NO3)	MG/L	49	5/18/99	53	6/30/86	45/-
IODIDE	UG/L	.027	10/6/94	.017	6/30/86	
TURBIDITY, LABORATORY	NTU	1.3	5/14/97	.3	6/30/86	5/-
DI(2-ETHYLHEXYL)ADIPATE	UG/L	.46	3/20/95	1.15	10/15/91	400/-

Owner: CALIFORNIA WATER SERVICE - LIV  
Well: WELL 15-01  
WellNo: 03S/02E-16C01 M  
Map Loc: 89 - within 3/4 - 1 mile E of the subject  
Status: AU - Active Untreated

WATER QUALITY:

		units	latest		maximum	MCL/RPHL
SOURCE TEMPERATURE C	C	20	0/0/80	21	5/8/86	
COLOR	UNITS	1	0/0/80	2	5/8/86	15/-
SPECIFIC CONDUCTANCE	US	806	0/0/80	790	5/8/86	2200/-
PH, LABORATORY		7.72	0/0/80	7.84	5/8/86	
ALKALINITY (TOTAL) AS CaCO3	MG/L	265	0/0/80	281	5/8/86	
BICARBONATE ALKALINITY	MG/L	321	0/0/80	339	5/8/86	
CARBONATE ALKALINITY	MG/L	1.1	0/0/80	1.6	5/8/86	

PHOSPHATE	UG/L	.26	5/14/97	.28	5/8/86	
HARDNESS (TOTAL) AS CaCO3	MG/L	312	0/0/80	314	5/8/86	
CALCIUM	MG/L	47	0/0/80	46	5/8/86	
MAGNESIUM	MG/L	50	0/0/80	48	5/8/86	
SODIUM	MG/L	56	0/0/80	44	5/8/86	
SODIUM ABSORPTION RATIO		56	0/0/80	1.08	5/8/86	
POTASSIUM	MG/L	2.6	0/0/80	1.9	5/8/86	
CHLORIDE	MG/L	76	0/0/80	48	5/8/86	600/-
SULFATE	MG/L	38	0/0/80	61	5/8/86	600/-
FLUORIDE (TEMPERATURE DEPENDENT)	MG/L	.14	0/0/80	.14	5/8/86	5/8/861.7/-
SILICA	MG/L	32	5/14/97	36	5/8/86	
ARSENIC	UG/L	2	0/0/80	2	0/0/80	50/-
BARIUM	UG/L	190	0/0/80	220	5/8/86	1000/-
CHROMIUM, HEXAVALENT	UG/L	7	11/27/1	7	11/27/1	
CHROMIUM (TOTAL)	UG/L	13	5/14/97	13	6/17/91	50/-
IRON	UG/L	200	10/6/94	200	10/6/94	300/-
MANGANESE	UG/L	40	5/14/97	40	5/14/97	50/-
GROSS ALPHA	PCI/L	1.5	0/0/80	.8	6/3/88	15/-
GROSS ALPHA COUNTING ERROR	PCI/L	.5	0/0/80	1.5	6/3/88	
BROMOFORM (THM)	UG/L	1.3	7/8/97	1.3	7/8/97	100/-
ANTHRACENE	UG/L	5.74	3/20/95	5.74	3/20/95	
FOAMING AGENTS (MBAS)	UG/L	.03	6/17/91	.03	6/17/91	500/-
TOTAL DISSOLVED SOLIDS	MG/L	477	0/0/80	467	5/8/86	1500/-
LANGELIER INDEX @ 60 C		.5	5/8/86	.5	5/8/86	
LANGELIER INDEX AT SOURCE TEMP.		.29	0/0/80	.29	6/3/88	
NITRATE (AS NO3)	MG/L	17	0/0/80	13	5/8/86	45/-
IODIDE	UG/L	.01	10/6/94	.03	5/8/86	
TURBIDITY, LABORATORY	NTU	.2	0/0/80	.3	5/8/86	5/-
DI(2-ETHYLHEXYL)ADIPATE	UG/L	.44	8/24/94	.92	7/28/92	400/-

Owner: CALIFORNIA WATER SERVICE - LIV  
Well: WELL 20-01  
WellNo: 03S/02E-18B01 M  
Map Loc: 98 - within 3/4 - 1 mile W of the subject  
Status: AU - Active Untreated

WATER QUALITY:

		units	latest		maximum	MCL/RPHL
SOURCE TEMPERATURE C	C	20	12/15/98	20	3/27/89	
COLOR	UNITS	4	11/6/95	3	3/27/89	15/-
SPECIFIC CONDUCTANCE	US	698	12/15/98	570	3/27/89	2200/-
PH, LABORATORY		7.57	12/15/98	7.59	3/27/89	
ALKALINITY (TOTAL) AS CaCO3	MG/L	208	12/15/98	186	3/27/89	
BICARBONATE ALKALINITY	MG/L	253	12/15/98	225	3/27/89	
CARBONATE ALKALINITY	MG/L	.6	12/15/98	.6	3/27/89	
PHOSPHATE	UG/L	.19	12/15/98	.27	3/27/89	
HARDNESS (TOTAL) AS CaCO3	MG/L	289	12/15/98	210	3/27/89	
CALCIUM	MG/L	40	12/15/98	29	3/27/89	
MAGNESIUM	MG/L	56	12/15/98	33	3/27/89	
SODIUM	MG/L	33	12/15/98	40	3/27/89	
SODIUM ABSORPTION RATIO		33	12/15/98	1.2	3/27/89	
POTASSIUM	MG/L	2.2	12/15/98	1.6	3/27/89	
CHLORIDE	MG/L	61	12/15/98	39	3/27/89	600/-
SULFATE	MG/L	34	12/15/98	29	3/27/89	600/-
FLUORIDE (TEMPERATURE DEPENDENT)	MG/L	.1	12/15/98	.11	3/27/89	3/27/891.7/-
SILICA	MG/L	26	11/6/95	32	3/27/89	
BARIUM	UG/L	170	10/23/1	210	3/27/89	1000/-
BORON	UG/L	120	11/7/1	140	6/26/1	
CHROMIUM, HEXAVALENT	UG/L	5.6	11/27/1	4	5/9/1	
CHROMIUM (TOTAL)	UG/L	10	11/6/95	10	11/6/95	50/-
IRON	UG/L	230	11/6/95	230	11/6/95	300/-
LEAD	UG/L	5	1/28/93	5	1/28/93	
VANADIUM	UG/L	3.3	6/26/1	3.3	6/26/1	
ZINC	UG/L	60	1/28/93	60	1/28/93	
ALUMINUM	UG/L	73	11/6/95	50	1/28/93	1000/-
GROSS ALPHA	PCI/L	1	12/22/99	1.2	12/12/89	15/-
GROSS ALPHA COUNTING ERROR	PCI/L	1	12/22/99	.9	12/12/89	
FOAMING AGENTS (MBAS)	UG/L	.06	11/6/95	.02	1/28/93	500/-

DI(2-ETHYLHEXYL)PHTHALATE	UG/L	4.02	3/15/93	4.02	3/15/93	4/-
TOTAL DISSOLVED SOLIDS	MG/L	421	12/15/98	342	3/27/89	1500/-
LANGELIER INDEX AT SOURCE TEMP.		.026		12/15/98	.17	3/27/89
NITRATE (AS NO3)	MG/L	29	0/0/80	26	3/27/89	45/-
IODIDE	UG/L	.02	1/28/93	.013	3/27/89	
TURBIDITY, LABORATORY	NTU	.15	12/15/98	.15	3/27/89	5/-
DI(2-ETHYLHEXYL)ADIPATE	UG/L	2.21	10/12/93	2.21	10/12/93	400/-
CHROMIUM (TOTAL CR-CRVI SCREEN)	UG/L	4		10/23/1	4	10/23/1

Owner: CALIFORNIA WATER SERVICE - LIV  
Well: WELL 10-01 - BLENDED  
WellNo:  
Map Loc: 59 - within 1/4 - 1/2 mile NW of the subject  
Status: CM

WATER QUALITY:

		units	latest		maximum	MCL/RPHL
GROSS ALPHA	PCI/L	2.3	7/30/96	.9	9/17/92	15/-
GROSS ALPHA COUNTING ERROR	PCI/L	5	7/30/96	1	9/17/92	
BROMODICHLORMETHANE (THM)	UG/L	4.6	11/9/99	3.4	8/25/92	100/-
BROMOFORM (THM)	UG/L	10	11/9/99	6.3	8/25/92	100/-
DIBROMOCHLOROMETHANE (THM)	UG/L	7.2	11/9/99	6.1	8/25/92	100/-
CHLOROFORM (THM)	UG/L	1.5	11/9/99	1.1	8/25/92	100/-
MONOCHLORO BENZENE	UG/L	.5	11/4/96	.5	11/4/96	70/-
TETRACHLOROETHYLENE	UG/L	3.4	11/9/99	2.7	7/16/92	5/-
XYLENES (TOTAL)	UG/L	.8	8/25/92	.8	8/25/92	1750/-
TOTAL TRIHALOMETHANES	UG/L	14.3	11/9/99	16.9	8/25/92	100/-
2-CHLOROTOLUENE	UG/L	1	11/4/96	1	11/4/96	
M,P-XYLENE	UG/L	.8	8/25/92	.8	8/25/92	1750/-

REGIONAL SOURCES

NT Toxic Releases

The California Regional Water Quality Control Boards or local Department of Health Services keeps track of toxic releases to the environment. These lists are known as Unauthorized Releases, Spill, Leaks, Investigations and Cleanups (SLIC), Non-Tank Releases, Toxics List or similar, depending on the local agency.

This list has been researched within 1 mile radius of the subject site.

Site: LIVERMORE ARCADE SHOPPING CENT  
Address: 1ST & P ST  
City: LIVERMORE  
Map Loc: 13 - within 1/4 mile E of the subject  
Status: I - Inactive case

Id: 2-01S0216

SHOPPING CENTER  
Containment of the plume has not been started.

Site: LIVERMORE ARCADE SHOPPING CNTR  
Address: 1ST & P ST  
City: LIVERMORE  
Map Loc: 13 - within 1/4 mile E of the subject  
Status: -

Id: T

Site: PG&E-FORMER COAL GAS FACILITY  
Address: NORTH ST & RR  
City: LIVERMORE  
Map Loc: 42 - within 1/4 mile NE of the subject  
Status: .

id:

Site: LIVERMORE SEWAGE PONDS  
Address: PINE ST  
City: LIVERMORE  
Status: I - inactive case

id: 2-01S0396

Containment of the plume has not been started.

Site: LIVERMORE CITY OF  
Address: 1767 PORTOLA AVE  
City: LIVERMORE  
Map Loc: 93 - within 3/4 - 1 mile N of the subject  
Status: I - inactive case

id: 2-01S0254

Containment of the plume has not been started.

Site: MILLER OUTPOST SHOPPING CENTER  
Address: 1332 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 17 - within 1/4 mile NW of the subject  
Status: I - inactive case

id: 2-01S0309

Containment of the plume has not been started.

Site: LIVERMORE DEPARTMENT OF PUBLIC  
Address: RINCON/JUNIPER/SPRUCE  
City: LIVERMORE  
Map Loc: 85 - within 3/4 - 1 mile NW of the subject  
Status: I - inactive case

id: 2-01S0315

Containment of the plume has not been started.

Site: PG & E  
Address: WESTERN PACIFIC RAILROAD & NORTH ST  
City: LIVERMORE  
Map Loc: 36 - within 1/4 mile NE of the subject  
Status: I - inactive case

id: 2-01S0052

FORMER COAL GASIFICATION POWER PLANT  
Containment of the plume has not been started.



The Toxic Pits Clean-Up Act (Katz Bill) places strict limitations on the discharge of liquid hazardous wastes into surface impoundment, toxic ponds, pits and lagoons. Regional Water Quality Control Boards are required to inspect all surface impoundment annually, in addition, every facility was required to file a Hydrogeological Assessment Report. Recent legislation allows the Department of Health Services to exempt facilities that closed on or before December 31, 1985, if a showing is made that no significant environmental risk remains (AB1046).

Special exemption provisions have been created for surface impoundment that receive mining wastes.

*No listings within 1 mile radius of the subject site.*

#### SWAT(R) Solid Waste Assessment Test - Regional

This program, provided for under the Calderon legislation (Section 13273 of the Water Code), requires that disposal sites with more than 50,000 cubic yards of waste provide sufficient information to the regional water quality control board to determine whether or not the site has discharged hazardous substances which will impact the environment.

Site operators are required to file Solid Waste Assessment Test reports on a staggered basis. Operators of the 150 highest ranking (Rank 1) sites were required to submit Solid Waste Assessment Tests by July 1, 1987, Rank 2 in 1988 and so on.

Operators submit water quality tests to the Regional Water Quality Control Board, describing surface and groundwater quality and supply; and the geology within 1 mile of the site. Air quality tests are submitted to the local Air Quality Management District or Air Pollution Control District.

This program is currently not funded and thus not updated.

Status Codes: Facilities or sites are ranked within each region on a scale 1-15 according to priority.

*No listings within 1 mile radius of the subject site.*

## OPERATING PERMITS

Various agencies issue operating permits or regulate the handling, movements, storage and disposal of hazardous materials and require mandatory reporting. The inclusion in this section does not imply that an environmental problem exists presently or has in the past.

#### RCRA-G Resource Conservation and Recovery Information System - Generators

The Environmental Protection Agency regulates generators of hazardous material through the Resource Conservation and Recovery Act (RCRA). All hazardous waste generators are required to notify EPA of their existence by submitting the Federal Notification of Regulated Waste Activity Form (EPA Form 8700-12) or a state equivalent form. The notification form provides basic identification information and specific waste activities.

Status Codes: L - Generators who generate at least 1000 kg/mo of non-acutely hazardous waste (or 1 kg/mo of acutely hazardous waste).  
S - Generators who generate 100 kg/mo but less than 1000 kg/mo of non-acutely hazardous waste.  
T - Transporter.

This list has been researched within half of a mile radius of the subject site.

Site: MIKE ONE HR CLEANERS  
Address: 1430 1ST ST  
City: LIVERMORE  
Map Loc: 5 - within 1/4 mile NE of the subject  
Status: S - Small Generator

Permit id#: CAD981614597  
SIC Codes: 7216

Site: ORCHARD SUPPLY HARDWARE  
Address: 1450 1ST ST  
City: LIVERMORE  
Map Loc: 4 - within 1/4 mile E of the subject  
Status:

Permit id#: CAD982340580  
SIC Codes: 5251

Site: GRAND AUTO, INC  
Address: 1511 1ST ST  
City: LIVERMORE  
Map Loc: 8 - within 1/4 mile NE of the subject  
Status:

Permit id#: CAD981397557  
SIC Codes: 5013 5531

Site: GERARD TIRE SERVICE  
Address: 1682 1ST ST  
City: LIVERMORE  
Map Loc: 25 - within 1/4 mile E of the subject  
Status: S - Small Generator

Permit id#: CAD981408529

Site: UNOCAL SVC STA #4186  
Address: 1771 1ST ST  
City: LIVERMORE  
Map Loc: 32 - within 1/4 mile E of the subject  
Status:

Permit id#: CAD982056384

Site: QUALITY CLEANERS  
Address: 2048 1ST ST  
City: LIVERMORE  
Map Loc: 53 - within 1/4 - 1/2 mile E of the subject  
Status:

Permit id#: CAD981655533  
SIC Codes: 7216

Site: ALL STAR BODY SHOP  
Address: 185 N K ST  
City: LIVERMORE  
Map Loc: 74 - within 1/4 - 1/2 mile NE of the subject  
Status:

Permit id#: CAD981385487  
SIC Codes: 7532

Site: GROTH BROS OLDSMOBILE INC  
Address: 59 S L ST  
City: LIVERMORE  
Map Loc: 48 - within 1/4 - 1/2 mile E of the subject  
Status: S - Small Generator

Permit id#: CAD981400211

SIC Codes: 5511

Site: FULLER OBRIEN PAINTS  
Address: 1318 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 15 - within 1/4 mile NW of the subject  
Status: S - Small Generator

Permit id#: CAR000010397

Site: PAUL'S SPARKLE CLEANERS  
Address: 1332 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 17 - within 1/4 mile NW of the subject  
Status: S - Small Generator

Permit id#: CAD981390354  
SIC Codes: 7216

Site: JS CLEANERS  
Address: 2093 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 66 - within 1/4 - 1/2 mile NE of the subject  
Status: S - Small Generator

Permit id#: CAD981580939

Site: HANSENS BODY SHOP  
Address: 2127 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 70 - within 1/4 - 1/2 mile NE of the subject  
Status: S - Small Generator

Permit id#: CAD981964059  
SIC Codes: 7532

Site: SHELL STATION #204-4380-0808  
Address: 809 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 69 - within 1/4 - 1/2 mile W of the subject  
Status: S - Small Generator

Permit id#: CAD981401961

Site: PACIFIC BELL  
Address: 1015 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 31 - within 1/4 mile W of the subject  
Status: S - Small Generator

Permit id#: CAT080021645

Site: WENTLING CAMERA AND VIDEO  
Address: 1098 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 23 - within 1/4 mile W of the subject  
Status: S - Small Generator

Permit id#: CAD983625286

Site: VALLEY MEMORIAL HOSPITAL  
Address: 1111 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 24 - within 1/4 mile W of the subject  
Status:

Permit id#: CAD982368870  
SIC Codes: 8062

SARA SARA Title III, section 313 (TRIS)

Title III of the Superfund Amendments and Reauthorization Act, Section 313, also known as Emergency Planning and Community Right-to-Know Act of 1986 requires owners or operators of facilities with more than 10 employees and are listed under Standard Industrial Classification (SIC) Codes 20 through 39 to report the manufacturing, processing or use of more than a threshold of certain chemical or chemical categories listed under section 313. This data base is also known as Toxic Release Information System (TRIS).

Below summary information for the last five year period is reported grouping the releases into air, water, underground injection, land, public offsite treatment (potw) and transportation offsite.

*No listings within half of a mile radius of the subject site.*

NC Nuclear Regulatory Commission Licensees

The Nuclear Regulatory Commission, Office of Nuclear Material Safety and Safeguards has been mandated (10 CFR Ch 1.42) to protect the public health and safety, the common defense and security, and the environment by licensing, inspection, and environmental impact assessment for all nuclear facilities and activities, and for the import and export of special nuclear material.

*No listings within half of a mile radius of the subject site.*

PCB PCB Waste Handlers Database

The U.S. Environmental Protection Agency tracks generators, transporters, commercial stores and/or brokers and disposers of PCB's in accordance with the Toxic Substance Control Act.

*No listings within half of a mile radius of the subject site.*

PCS Permit Compliance System

PCS is a database which contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS was developed by The U.S. Environmental Protection Agency to meet the information needs of the NPDES program under the Clean Water Act. PCS tracks permit, compliance, and enforcement states of NPDES facilities.

*No listings within half of a mile radius of the subject site.*

AFS AIRS Facility System

AFS contains emissions and compliance data on air pollution point sources tracked by the U.S. EPA and state and local environmental regulatory agencies. There are seven "criteria pollutants" for which data must be reported to EPA and stored in AIRS: PM10 (particulate matters less than 10 microns in size), carbon monoxide, sulfur dioxide, nitrogen dioxide, lead, reactive volatile organic compounds (VOC), and ozone.

AFS replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aeromatic Data (SAROAD).

*No listings within half of a mile radius of the subject site.*

PE Section Seven Tracking System (SSTS)

SSTS evolved from the FIFRA and TSCA Enforcement System (FATES). SSTS tracks the registration of all pesticide producing establishments and tracks annually the types and amounts of pesticides, active ingredients, and devices that are produced, sold or distributed each year.

*No listings within half of a mile radius of the subject site.*

FIFRA FIFRA/TSCA Tracking System/ National Compliance Database (FTTS/NCDB)

NCDB supports implementation of the Federal Insecticide, Fungicide and Rodenticide Control Act (FIFRA) and the Toxic Substance Control Act (TSCA).

This list has been researched within half of a mile radius of the subject site.

Site: HOPE EDUCATION CTR  
Address: PO BOX 2362  
City: LIVERMORE  
Status: Permit id#: CA0000214320

Site: HOPE EDUCATION CTR  
Address: PO BOX 2362  
City: LIVERMORE  
Status: Permit id#: CA0000214320

FFIS Federal Facilities Information System (FFIS)

Federal Facilities Information System (FFIS) contains a list of all Treatment Storage and Disposal Facilities (TSDs) owned and operated by federal agencies.

*No listings within half of a mile radius of the subject site.*

CICIS Chemicals in Commerce Information System (CICIS)

Chemicals in Commerce Information System contains an inventory of chemicals manufactured in commerce or imported for Toxic Substances Control Act regulated commercial purposes. CICIS allows EPA to maintain a comprehensive listing of over 70,000 chemical substances that are manufactured or imported and are regulated under TSCA.

*No listings within half of a mile radius of the subject site.*

FINDS FINDS EPA Facility Index System

The U.S. Environmental Protection Agency maintains an index system of all facilities which are regulated or have been assigned an identification number for other purposes.

Facilities that have been reported elsewhere in this report will not be included in the listing below.

This list has been researched within half of a mile radius of the subject site.

Site: SITE ID 060011002

Address: 2131 RAILROAD AVE, LIVERMORE  
City: LIVERMORE  
Map Loc: 75 - within 1/4 - 1/2 mile NE of the subject  
Status: Permit Id#: 000012185266

Site: SPECIAL CLEANER  
Address: 851 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 56 - within 1/4 - 1/2 mile W of the subject  
Status: Permit Id#: 000011281934

HWIS Hazardous Waste Information System

The Department of Toxic Substance Control, California Environmental Protection Agency, maintains a data base keeping track of the movement and disposal of hazardous waste. The data is used to support the Tanner legislation, AB 2948.

Status Codes: EPA Facility Permit Number

This list has been researched within half of a mile radius of the subject site.

Site: GRUBB & ELLIS  
Address: 1ST & P ST  
City: LIVERMORE  
Map Loc: 13 - within 1/4 mile E of the subject  
Status: EPA ID#: CAL000097403

Site: HGCL INC  
Address: 1ST & P ST, LIVERMORE ARCADE SHOPPING CE  
City: LIVERMORE  
Map Loc: 13 - within 1/4 mile E of the subject  
Status: EPA ID#: CAL000112120

Site: GRUB AND ELLIS  
Address: 1ST ST  
City: LIVERMORE  
Status: EPA ID#: CAC000695944

Site: CHEVRON STATION #92864  
Address: 1334 1ST ST  
City: LIVERMORE  
Map Loc: 2 - within 1/4 mile NW of the subject  
Status: EPA ID#: CAL000030026

Site: MIKE ONE HR CLEANERS  
Address: 1430 1ST ST

City: LIVERMORE  
Map Loc: 5 - within 1/4 mile NE of the subject  
Status: EPA ID#: CAD981614597

Site: ORCHARD SUPPLY HARDWARE  
Address: 1450 1ST ST  
City: LIVERMORE  
Map Loc: 4 - within 1/4 mile E of the subject  
Status: EPA ID#: CAD982340580

Site: FUCHS, ROBERT  
Address: 1453 1ST ST  
City: LIVERMORE  
Map Loc: 3 - within 1/4 mile SW of the subject  
Status: EPA ID#: CAC000265977

Site: GOODYEAR TIRE CENTER  
Address: 1485 1ST ST  
City: LIVERMORE  
Map Loc: 7 - within 1/4 mile E of the subject  
Status: EPA ID#: CAC000999248

Site: LONGS DRUGS #64  
Address: 1500 1ST ST  
City: LIVERMORE  
Map Loc: 6 - within 1/4 mile E of the subject  
Status: EPA ID#: CAL922444759

Site: GRAND AUTO, INC  
Address: 1511 1ST ST  
City: LIVERMORE  
Map Loc: 8 - within 1/4 mile NE of the subject  
Status: EPA ID#: CAD981397557

Site: PRESTO PRINTS  
Address: 1518 1ST ST  
City: LIVERMORE  
Map Loc: 10 - within 1/4 mile E of the subject  
Status: EPA ID#: CAL000048051

Site: ADOBE PET HOSPITAL  
Address: 1543 1ST ST  
City: LIVERMORE  
Map Loc: 9 - within 1/4 mile E of the subject

Status: EPA ID#: CAL000079990

Site: ULTRAMAR INC  
Address: 1619 1ST ST  
City: LIVERMORE  
Map Loc: 20 - within 1/4 mile E of the subject  
Status: EPA ID#: CAL921764741

Site: ULTRAMAR, INC.  
Address: 1619 1ST ST  
City: LIVERMORE  
Map Loc: 20 - within 1/4 mile E of the subject  
Status: EPA ID#: CAL921764741

Site: LIVERMORE MUFFLER SHOP  
Address: 1679 1ST ST  
City: LIVERMORE  
Map Loc: 19 - within 1/4 mile E of the subject  
Status: EPA ID#: CAL000018868

Site: MARGUETE DEPAOLI  
Address: 1679 1ST ST  
City: LIVERMORE  
Map Loc: 19 - within 1/4 mile E of the subject  
Status: EPA ID#: CAC000274465

Site: GERARD TIRE SERVICE  
Address: 1682 1ST ST  
City: LIVERMORE  
Map Loc: 25 - within 1/4 mile E of the subject  
Status: EPA ID#: CAD981408529

Site: TRI VALLEY TUNE-UP  
Address: 1737 1ST ST  
City: LIVERMORE  
Map Loc: 27 - within 1/4 mile E of the subject  
Status: EPA ID#: CAL000045825

Inorganics:  
Aqueous solution with total organic residues less than 10% ( 91: .29 ton )

Site: TRIVALLEY TUNE UP  
Address: 1737 1ST ST  
City: LIVERMORE  
Map Loc: 27 - within 1/4 mile E of the subject  
Status: EPA ID#: CAC000562632



Site: HERNANDEZ, MARTIN  
Address: 1737 1ST ST  
City: LIVERMORE  
Map Loc: 27 - within 1/4 mile E of the subject  
Status: EPA ID#: CAC000241145

Site: UNOCAL SVC STA #4186  
Address: 1771 1ST ST  
City: LIVERMORE  
Map Loc: 32 - within 1/4 mile E of the subject  
Status: EPA ID#: CAD982056384

Site: LIVERMORE FIRESTONE  
Address: 1931 1ST ST  
City: LIVERMORE  
Map Loc: 46 - within 1/4 - 1/2 mile E of the subject  
Status: EPA ID#: CAL000018869

Site: DESERT PETROLEUM INC  
Address: 2008 1ST ST  
City: LIVERMORE  
Map Loc: 51 - within 1/4 - 1/2 mile E of the subject  
Status: EPA ID#: CAL000005068

Site: GASCO  
Address: 2008 1ST ST  
City: LIVERMORE  
Map Loc: 51 - within 1/4 - 1/2 mile E of the subject  
Status: EPA ID#: CAD981990690

Site: GASCO  
Address: 2008 1ST ST  
City: LIVERMORE  
Map Loc: 51 - within 1/4 - 1/2 mile E of the subject  
Status: EPA ID#: CAC982009326

Site: QUALITY CLEANERS  
Address: 2048 1ST ST  
City: LIVERMORE  
Map Loc: 53 - within 1/4 - 1/2 mile E of the subject  
Status: EPA ID#: CAD981655533

Site: BOSTER ASSOC INC  
Address: 1853 3RD ST  
City: LIVERMORE  
Map Loc: 43 - within 1/4 mile E of the subject  
Status: EPA ID#: CAD982009888

Site: ADOBE PET HOSPITAL  
Address: 2059 3RD ST  
City: LIVERMORE  
Map Loc: 63 - within 1/4 - 1/2 mile E of the subject  
Status: EPA ID#: CAL000043496

Miscellaneous:  
Photochemical waste( 91: .06 ton )

Site: THOMAS MARCEL DDS  
Address: 2084 4TH ST  
City: LIVERMORE  
Map Loc: 68 - within 1/4 - 1/2 mile E of the subject  
Status: EPA ID#: CAL000099017

Site: AMERICAN SAVINGS BANK  
Address: 1429 COLLEGE AVE  
City: LIVERMORE  
Map Loc: 33 - within 1/4 mile S of the subject  
Status: EPA ID#: CAC000710240

Site: FLYING J GASOLINE  
Address: 160 HOLMES ST  
City: LIVERMORE  
Map Loc: 12 - within 1/4 mile SW of the subject  
Status: EPA ID#: CAL930545249

Site: ALLENS TOWING & TUNE UP  
Address: 181 N K ST  
City: LIVERMORE  
Map Loc: 73 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAL000020466

Site: ALL STAR BODY SHOP  
Address: 185 N K ST  
City: LIVERMORE  
Map Loc: 74 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAD981385487

Organics:

Unspecified solvent mixture( 89: .45 ton )

Site: CITY OF LIVERMORE  
Address: 141 L ST, 149,153,167  
City: LIVERMORE  
Map Loc: 54 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAC000212057

Inorganics:

Asbestos containing waste( 89: 16.85 ton )

Site: DON-SUL INC DBA ARROW RENTALS  
Address: 187 N L ST  
City: LIVERMORE  
Map Loc: 57 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAL000036926

Site: DON-SUL INC DBA ARROW RENTALS  
Address: 187 N L ST  
City: LIVERMORE  
Map Loc: 57 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAC000211529

Site: QUALITY TUNE-UP #55  
Address: 277 N L ST  
City: LIVERMORE  
Map Loc: 62 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAL920465267

Site: DESERT PETROLEUM INC  
Address: 277 N L ST  
City: LIVERMORE  
Map Loc: 62 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAL000003996

Miscellaneous:

Empty non-pesticide containers > 30 gallons( 91: .05 ton )

Site: GROTH BROS OLDSMOBILE INC  
Address: 59 S L ST  
City: LIVERMORE  
Map Loc: 48 - within 1/4 - 1/2 mile E of the subject  
Status: EPA ID#: CAD981400211

Organics:

Oxygenated solvents( 91: .74 ton )

Unspecified solvent mixture( 89: 1.82 91: 1.35 ton )

Unspecified oil containing waste( 91: .82 ton )

California Restricted Wastes:

Liquids with halogenated org > 1000 mg/l( 91: .06 ton )

Site: ALPHA AUTO CARE CTR

Address: 174 S L ST  
City: LIVERMORE  
Map Loc: 50 - within 1/4 - 1/2 mile E of the subject  
Status: EPA ID#: CAL000003917

Site: LIVERMORE AUTO EXCHANGE  
Address: 174 S L ST  
City: LIVERMORE  
Map Loc: 50 - within 1/4 - 1/2 mile E of the subject  
Status: EPA ID#: CAC000512568

Site: D&M MACHINE SHOP  
Address: 241 N M ST  
City: LIVERMORE  
Map Loc: 49 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAL000030830

Site: AAMES HOME LOANS  
Address: 1230 MARGUERITE ST  
City: LIVERMORE  
Map Loc: 35 - within 1/4 mile S of the subject  
Status: EPA ID#: CAC000606280

Organics:  
Unspecified oil containing waste( 91: .2 ton )  
Miscellaneous:  
Empty non-pesticide containers > 30 gallons( 91: .07 ton )

Site: ADVANCED HEALTH CHIROPRACTIC  
Address: 988 MURRIETA BLVD  
City: LIVERMORE  
Map Loc: 44 - within 1/4 mile SW of the subject  
Status: EPA ID#: CAL921364116

Site: CALIFORNIA WATER SERVICE CO  
Address: 1493 OLIVINA AVE  
City: LIVERMORE  
Map Loc: 39 - within 1/4 mile N of the subject  
Status: EPA ID#: CAL000046935

Site: CALIF WATER SERVICE CO  
Address: 1493 OLIVINA AVE  
City: LIVERMORE  
Map Loc: 39 - within 1/4 mile N of the subject  
Status: EPA ID#: CAC000582096

Organics:

Unspecified oil containing waste( 91: .2 ton )  
Miscellaneous:  
Empty non-pesticide containers > 30 gallons( 91: .94 ton )

Site: D AND R GOODYEAR  
Address: 1565 OLIVINA AVE  
City: LIVERMORE  
Map Loc: 37 - within 1/4 mile N of the subject  
Status: EPA ID#: CAL000019787

Site: BOBS PARTS HOUSE  
Address: 1565 OLIVINA AVE  
City: LIVERMORE  
Map Loc: 37 - within 1/4 mile N of the subject  
Status: EPA ID#: CAL000060728

Site: DICK & RYANS  
Address: 1565 OLIVINA AVE  
City: LIVERMORE  
Map Loc: 37 - within 1/4 mile N of the subject  
Status: EPA ID#: CAL000064331

Site: BARNETT-RANGE CORP  
Address: P&L STS/RAILROAD AVE  
City: LIVERMORE  
Map Loc: 22 - within 1/4 mile NE of the subject  
Status: EPA ID#: CAD982480717

Miscellaneous:  
Empty non-pesticide containers > 30 gallons( 89: 1.16 ton )

Site: HANSEN, ANNA  
Address: 1868 PARK ST  
City: LIVERMORE  
Map Loc: 60 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAC000556640

Site: THRIFTY CORPORATION  
Address: 1320 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 16 - within 1/4 mile NW of the subject  
Status: EPA ID#: CAC000576416

Inorganics:  
Asbestos containing waste( 91: 2.52 ton )

Site: PAUL'S SPARKLE CLEANERS  
Address: 1332 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 17 - within 1/4 mile NW of the subject

Status: EPA ID#: CAD981390354

Site: LUCKY STORES INC  
Address: 2073 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 64 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAC000705408

Site: JS CLEANERS  
Address: 2093 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 66 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAD981580939

Site: J CLEANERS  
Address: 2093 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 66 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAL000021237

Site: HANSENS BODY SHOP  
Address: 2127 RAILROAD AVE  
City: LIVERMORE  
Map Loc: 70 - within 1/4 - 1/2 mile NE of the subject  
Status: EPA ID#: CAD981964059

Inorganics:  
Unspecified aqueous solution( 89: .12 ton )  
Organics:  
Unspecified solvent mixture( 89: 1.2 ton )  
Waste oil and mixed oil( 89: .04 ton )  
Miscellaneous:  
Empty non-pesticide containers > 30 gallons( 89: .08 ton )

Site: RINCON ELEMENTARY SCHOOL  
Address: 125 RINCON AVE  
City: LIVERMORE  
Map Loc: 45 - within 1/4 mile W of the subject  
Status: EPA ID#: CAC000750880

Site: LIVERMORE VALLEY JOINT U S D  
Address: 125 RINCON AVE  
City: LIVERMORE  
Map Loc: 45 - within 1/4 mile W of the subject  
Status: EPA ID#: CAC000624496

Site: TRI VALLEY SHELL

Address: 809 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 69 - within 1/4 - 1/2 mile W of the subject  
Status: EPA ID#: CAL000034277

Organics:  
Unspecified organic liquid mixture( 91: .08 ton )

Site: SHELL STATION #204-4380-0808  
Address: 809 E STANLEY BLVD, MURIETTA  
City: LIVERMORE  
Map Loc: 69 - within 1/4 - 1/2 mile W of the subject  
Status: EPA ID#: CAD981401961

Site: PACIFIC TELEPHONE AND TELEGRAP  
Address: 1015 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 31 - within 1/4 mile W of the subject  
Status: EPA ID#: CAT080021645

Site: MED CENTER  
Address: 1090 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 26 - within 1/4 mile W of the subject  
Status: EPA ID#: CAL000059779

Site: WENTLING CAMERA AND VIDEO  
Address: 1098 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 23 - within 1/4 mile W of the subject  
Status: EPA ID#: CAD983625286

Site: VALLEY MEMORIAL HOSPITAL  
Address: 1111 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 24 - within 1/4 mile W of the subject  
Status: EPA ID#: CAC000678984

Site: KMART #7577  
Address: 1122 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 21 - within 1/4 mile W of the subject  
Status: EPA ID#: CAL000018547

Organics:  
Unspecified solvent mixture( 91: .24 ton )  
California Restricted Wastes:

Liquids with lead > 500 mg/l( 91: .12 ton )

Site: K-MART CORP., STORE #7577  
Address: 1122 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 21 - within 1/4 mile W of the subject  
Status: EPA ID#: CAC000124837

Site: ANTHONY ALVAREZ DDS  
Address: 1221 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 18 - within 1/4 mile W of the subject  
Status: EPA ID#: CAL000123264

UST Permitted Underground Storage Tanks - State Water Quality Control Board

The Corteses Bill (AB2013), enacted in 1983, required registration of all underground storage tanks (UST) with the State Water Quality Control Board by July 1, 1984. About 176,000 tanks and surface impounds were registered between 1984 and 1987. An amendment (AB 1413) was passed in 1987, effectively removing the State Board from the registration process starting January 1, 1988. The data reflects the information collected by the state between 1984 and 1987 as well as recent time and includes all tanks and surface impounds in use or closed after 1974.

Home and farm heating fuel tanks with capacities of 1,100 gallons or less and "structures such as sumps, separators, storm drains, catch basins, oil field gathering lines, refinery pipelines, lagoons, evaporation ponds, well cellars, separation sumps, lined and unlined pits, sumps and lagoons" except those defined as UST under HSWA or may be regulated to protect water quality under the Porter-Cologne Water Quality Control Act are excluded.

This list has been researched within half of a mile radius of the subject site.

Site: 92864  
Address: 1334 1ST ST  
City: LIVERMORE  
Map Loc: 2 - within 1/4 mile NW of the subject  
Status: 00000062339 (1987&93)

Activity: GAS STATION  
6000 gallon, single-walled, unlined, carbon steel tank  
6000 gallon, single-walled, unlined, carbon steel tank  
3000 gallon, single-walled, unlined, carbon steel tank  
550 gallon, single-walled, unlined, carbon steel tank

Site: BEACON STATION # 604  
Address: 1619 1ST ST  
City: LIVERMORE  
Map Loc: 20 - within 1/4 mile E of the subject  
Status: 00000043888 (198798A)

Activity: GAS STATION  
8000 gallon, single-walled, unlined, carbon steel tank (regular), installed in 1969  
10000 gallon, single-walled, unlined, carbon steel tank (unleaded), installed in 1969  
8000 gallon, single-walled, unlined, carbon steel tank (unleaded), installed in 1969  
550 gallon, single-walled, unlined, carbon steel tank (waste oil), installed in 1969  
10 gallon, single-walled, concrete tank, installed in 1969



Site: RYNEK TIRE & BRAKE INC  
Address: 1682 1ST ST  
City: LIVERMORE  
Map Loc: 25 - within 1/4 mile E of the subject  
Status: (191998A)

Site: BEACON SERVICE STATION  
Address: 1737 1ST ST  
City: LIVERMORE  
Map Loc: 27 - within 1/4 mile E of the subject  
Status: 00000001646 (198798A)

Activity: GAS STATION  
8000 gallon, unlined tank (regular)  
5000 gallon tank (premium)  
5000 gallon, unlined tank (unleaded)  
5000 gallon tank (unleaded)

Site: UNION OIL SS#4186  
Address: 1771 1ST ST  
City: LIVERMORE  
Map Loc: 32 - within 1/4 mile E of the subject  
Status: 00000006054 (1987&A9)

Activity: GAS STATION  
10000 gallon, single-walled, fiberglass tank (unleaded), installed in 1979  
10000 gallon, single-walled, fiberglass tank (premium), installed in 1979

Site: GASCO SERVICE STATION #795  
Address: 2008 1ST ST, N/AN/AN/A  
City: LIVERMORE  
Map Loc: 51 - within 1/4 - 1/2 mile E of the subject  
Status: 00000009423 (1987&A9)

Activity: GAS STATION  
10000 gallon, single-walled, unlined, carbon steel tank (regular)  
8000 gallon, single-walled, unlined, carbon steel tank (premium)  
10000 gallon, single-walled, unlined, carbon steel tank (unleaded)  
450 gallon, single-walled, unlined, carbon steel tank (waste oil)

Site: FLYING J GASOLINE  
Address: 160 HOLMES ST  
City: LIVERMORE  
Map Loc: 12 - within 1/4 mile SW of the subject  
Status: 00000008357 (1987&A9)

Activity: GAS STATION  
12000 gallon, unlined, carbon steel tank (unleaded), installed in 1978  
12000 gallon, unlined, carbon steel tank (regular), installed in 1978  
12000 gallon, unlined, carbon steel tank (unleaded), installed in 1978  
12000 gallon, unlined, carbon steel tank (waste oil), installed in 1978

Site: "L" STREET CAR WASH  
Address: 220 N L ST  
City: LIVERMORE  
Map Loc: 58 - within 1/4 - 1/2 mile NE of the subject  
Status: 00000000913 (198798A)

Activity: GAS STATION

400 gallon, concrete tank , installed in 1970  
6000 gallon, fiberglass tank (premium), installed in 1978  
12000 gallon, stainless steel tank (unleaded), installed in 1970  
8000 gallon, stainless steel tank (regular), installed in 1970

Site: DESERT PETROLEUM  
Address: 277 N L ST  
City: LIVERMORE  
Map Loc: 62 - within 1/4 - 1/2 mile NE of the subject  
Status: 00000009199 (1987&98)

Activity: GAS STATION  
12000 gallon, single-walled, unlined, carbon steel tank (unleaded), installed in 1980  
12500 gallon, single-walled, unlined, carbon steel tank (premium)  
280 gallon, single-walled, unlined, carbon steel tank (waste oil)

Site: GROTH BROS. OLDSMOBILE, INC.  
Address: 59 S L ST  
City: LIVERMORE  
Map Loc: 48 - within 1/4 - 1/2 mile E of the subject  
Status: 00000021783 (1987981)

Activity: AUTO DEALERSHIP  
550 gallon, steel clad tank (unleaded), installed in 1935  
1500 gallon, steel clad tank (waste oil)  
1500 gallon, steel clad tank (unleaded)  
550 gallon, steel clad tank (waste oil)  
250 gallon, steel clad tank  
280 gallon, steel clad tank  
280 gallon, steel clad tank

Site: FIELD OFFICE  
Address: 1493 OLIVINA AVE  
City: LIVERMORE  
Map Loc: 39 - within 1/4 mile N of the subject  
Status: 00000013079 (1987981)

Activity: FIELD OFFICE  
2000 gallon, carbon steel tank (regular), installed in 1979

Site: THOMAS JOE COPELAND  
Address: PO BOX 628  
City: LIVERMORE  
Status: 00000040395 (198798A)

Activity: FARM  
355 gallon, unlined, carbon steel tank (regular), installed in 1974

Site: TRI VALLEY SHELL  
Address: 809 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 69 - within 1/4 - 1/2 mile W of the subject  
Status: 00000043516 (1987&A9)

Activity: FARM  
1000 gallon, single-walled, unlined, carbon steel tank (regular)

Site: VALLEY MEMORIAL HOSPITAL  
Address: 1111 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 24 - within 1/4 mile W of the subject  
Status: -000-301971 (19 )

Site: KMART ENTERPRISES  
Address: 1122 E STANLEY BLVD  
City: LIVERMORE  
Map Loc: 21 - within 1/4 mile W of the subject  
Status: 00000014355 (1987981)

500 gallon, single-walled, unlined, carbon steel tank (waste oil), installed in 1983

E

APPENDIX

FIRE INSURANCE MAP REVIEW

APPENDIX

FIRE INSURANCE MAP REVIEW

## **FIRE INSURANCE MAP REVIEW**

Fire insurance maps are large-scale maps that depict the commercial, industrial and residential sections of some twelve thousand cities and towns in the United States. These specialized maps were first prepared for the exclusive use of fire insurance companies and underwriters to provide accurate, current and detailed information about the buildings they were insuring. Information relied upon in place of personal examinations of property. Fire insurance maps show the size, shape and construction of dwellings, commercial buildings and factories, as well as indicate widths and names of streets, property boundaries, and house and block numbers. The primary benefit of reviewing fire insurance maps is to analyze historical land use of a subject property and its immediate area. In this review, special emphasis is given to the existence and location of fuel storage tanks, flammable or other potentially hazardous substances, as well as the nature of businesses located on site.

No Fire Insurance Maps are available for the area surrounding the subject site. Lack of coverage of the site indicates an area of little commercial development prior to 1950.

# **Appendix D**

## **Excerpts from Previous Studies**

SOILS INVESTIGATION  
PROPOSED SAMBO'S RESTAURANT  
FIRST AND "S" STREETS  
LIVERMORE, CALIFORNIA

J. H. KLEINFELDER AND ASSOCIATES  
2825 EAST MYRTLE STREET  
STOCKTON, CALIFORNIA 95205



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J. H. KLEINFELDER & ASSOCIATES



J. H. Kleinfelder, C. E. 12541  
C. M. "Bud" McRae, C. E. 15439  
Michael E. Mahoney, C. E. 17825  
Richard M. Wary, C. E. 17675

CONSULTING SOILS & FOUNDATION ENGINEERS / ENGINEERING LABORATORIES

File No. S-2001-1  
November 10, 1972

Mr. Lou M. Dentice  
820 Adams Street  
Livermore, California 94550

Dear Mr. Dentice:

Our firm has completed the soils investigation for the proposed Sambo's Restaurant to be located at First and "S" Streets in Livermore, California, and are pleased to present our report.

The report contains recommendations for foundations, floor slabs, site preparation, and other items.

We thank you for the opportunity to be of service on this project. If you have any questions after reviewing this report, please contact us.

Very truly yours,

J. H. KLEINFELDER AND ASSOCIATES

*Richard M. Wary*  
Richard M. Wary, C. E. 17675

RMW:pjr

cc: Client (4)  
Valley Realty  
ATTN.: Mr. Joe Mahan  
Associated Professions, Inc.  
ATTN.: Mr. Ed King

REPORT  
SOILS INVESTIGATION  
PROPOSED SAMBO'S RESTAURANT  
FIRST AND "S" STREETS  
LIVERMORE, CALIFORNIA

INTRODUCTION

In this report are presented the results of a soils investigation for a proposed Sambo's Restaurant, to be located on the northwest corner of South "S" Street and West First Street in Livermore, California. A site plan of the proposed construction is shown on Plate I.

PROPOSED CONSTRUCTION

We understand that the restaurant will have an approximate floor area of 4,000 square feet and will be a one-story masonry building with a wood roof and concrete floor slab. The maximum dead plus live loads for the bearing walls are estimated to be  $2\frac{1}{2}$  Kips per lineal foot. The maximum dead plus live loads for individual column footings are expected to be 25 Kips. Parking will be provided on the east and north sides of the site. Several planter areas will also be constructed.

PURPOSE AND SCOPE OF INVESTIGATION

The purposes of our soils investigation have been to explore the subsurface soil conditions at this site and provide recommendations for foundations, floor slabs, site preparation and grading, pavements, and parking. We have referred to the "Foundation Investigation Guidelines for Sambo's Restaurant Buildings," provided by Schmandt and Lenvik, Architects, Santa Barbara, California, in preparing our recommendations.

SITE CONDITIONS

At the time of our investigation, there was an existing house and garage on the northwest corner of the site. There are also several existing concrete slabs on the property. We understand that this property was formerly occupied by a service station building. This service station was removed approximately nine years ago. It is not known whether the underground gasoline tanks were removed at that time. We found no evidence of these tanks during our inspection of the site.

There are several trees on the north portion of the property. The remainder of the site is vacant. The existing ground surface is relatively flat and level.



September 8, 2003

Ms. Dona Drogas  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

**Subject: Document Review**  
1304 1<sup>st</sup> Street  
Livermore, California  
AEI Project No. 7251

**Alameda County**

SEP 10 2003

**Environmental Health**

Dear Ms. Drogas:

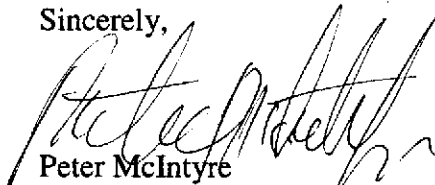
As you and I discussed on Friday September 5, 2003, I have enclosed relevant documents relating to environmental conditions at the above referenced property. The following is included here:

- A copy of the Phase I ESA prepared by M.J. Kloberdanz & Associates
- A copy of the first Phase II ESA prepared by AEI
- A copy of the second Phase II ESA prepared by AEI
- Consolidated data tables, site plan, and data obtained from the Livermore Gas & Mini Mart site (160 Holmes)

As we discussed, a tank existed on the subject property (1304 1<sup>st</sup> Street) but the gasoline dispensing was ceased in the 1950's with the associated buildings demolished in 1972 (Kloberdanz, Phase I). Based on these dates, MTBE would not be expected as a component of gasoline distributed from the property. Due to the very high MTBE detected in the groundwater on the Livermore Gas & Mini Mart site (160 Holmes) property, this release is the likely culprit of the detection (1,400 µg/l in water from SB-8) during our project.

Our client is requesting concurrence that the subject property would not be held liable for the release present in the groundwater resulting from offsite sources. We appreciate you time and consideration. If you need any additional information or have any questions, please don't hesitate to call me at (925) 283-6000, extension 104.

Sincerely,



Peter McIntyre  
Project Manager, Geologist

cc: Mr. Carlos Ratinho  
Mountain Mikes Pizza  
1181 Orchid Street  
Livermore, CA 94550

**Table 1:  
Soil Sample Analytical Data**

Sample ID	Sample Date	TPH-g mg/kg	TPH-d mg/kg	TPH-mo mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Xylenes mg/kg	Other VOCs mg/kg
SB-1 8'	7/8/2003	<1.0	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
SB-1 16'	7/8/2003	<1.0	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
SB-2 8'	7/8/2003	<1.0	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
SB-2 16'	7/8/2003	<1.0	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
SB-3 8'	7/8/2003	<1.0	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
SB-3 16'	7/8/2003	<1.0	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
SB-4 8'	7/8/2003	<1.0	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
SB-4 16'	7/8/2003	<1.0	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
SB-5 8'	7/8/2003	<1.0	<1.0	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
SB-5 16'	7/8/2003	<1.0	1.1	-	<0.05	<0.005	<0.005	<0.005	<0.005	-
SB-5 20'	7/8/2003	-	<1.0	-	-	-	-	-	-	-
SB-6 20'	8/15/2003	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	All<MDL
SB-6 35'	8/15/2003	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	All<MDL
SB-7 20'	8/15/2003	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	All<MDL
SB-7 30'	8/15/2003	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	All<MDL
SB-8 20'	8/15/2003	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	All<MDL
SB-8 20'	8/15/2003	<1.0	<1.0	<5.0	<0.05	<0.005	<0.005	<0.005	<0.005	All<MDL
MDL		1.0	1.0	5.0	0.05	0.005	0.005	0.005	0.005	

mg/kg = milligrams per kilogram (ppm)

TPH-g = Total Petroleum Hydrocarbons as gasoline

TPH-d = Total Petroleum Hydrocarbons as diesel

TPH-mo = Total Petroleum Hydrocarbons as motor oil

VOCs = Volatile Organic Analysis

MDL = Method Detection Limit where the dilution factor is 1

Please refer to Attachment B: Sample Analytical Documentation for further detailed lab information including reporting limits and dilution factors

**Table 2:  
Groundwater Sample Analytical Data**

Sample ID	TPH-g µg/L	TPH-d µg/L	TPH-mo µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Other VOCs µg/L
SB-6 W	<1.0	<1.0	<0.05	11	0.76	0.99	All<MDL
SB-7 W	<1.0	<1.0	<0.05	0.75	<0.5	0.59	All<MDL
SB-8 W	<1.0	<1.0	<0.05	1,400	<25	<25	All<MDL
MDL	50	50	250	0.5	0.5	0.5	

µg/L = micrograms per liter (ppb)

TPH-g = Total Petroleum Hydrocarbons as gasoline

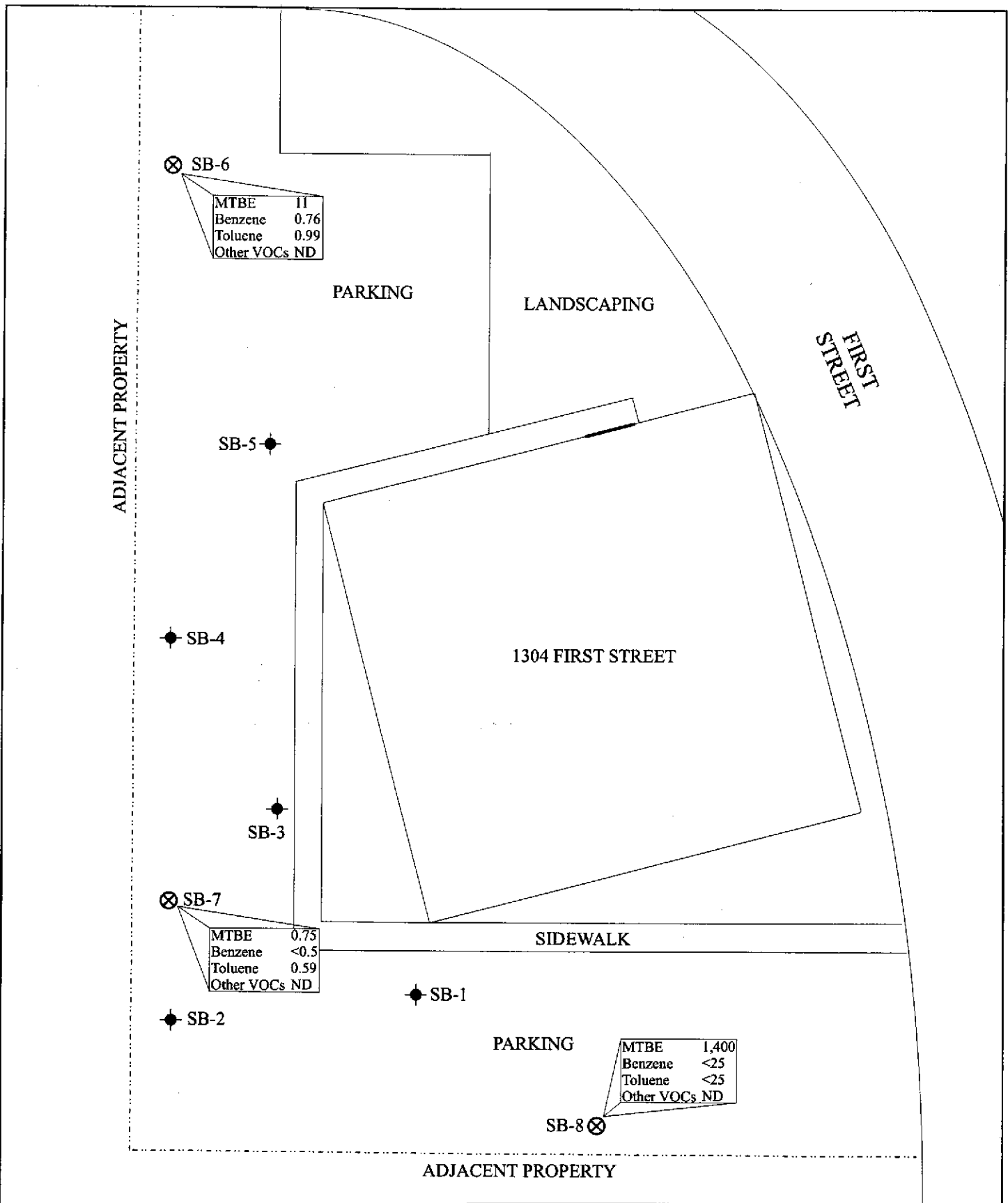
TPH-d = Total Petroleum Hydrocarbons as diesel

TPH-mo = Total Petroleum Hydrocarbons as motor oil

VOCs = Volatile Organic Compounds

MDL = Method Detection Limit where the dilution factor is 1

Please refer to Attachment B: Sample Analytical Documentation for further detailed lab information including reporting limits and dilution factors



- ◆ Previous Soil Boring Locations
- ⊗ Soil Boring Locations with concentrations expressed as µg/L  
 MTBE - Methyl Tert-Butyl Ether  
 VOCs - Volatile Organic Compounds  
 ND - Not Detected

SCALE: 1" = 25'

<b>AEI CONSULTANTS</b>	
2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK, CA	
<b>SITE MAP with GROUNDWATER SAMPLE ANALYTICAL DATA</b>	
1304 FIRST STREET LIVERMORE, CALIFORNIA	<b>FIGURE 2</b> Project # 7251





Noah's Bagels

TPHd: < 50  
TPHg: 110  
B: < 0.5  
T: < 0.5  
E: < 0.5  
X: < 0.5  
MTBE: 170

MW5 Landscaping

TPHd: < 50  
TPHg: < 50  
B: < 0.5  
T: < 0.5  
E: < 0.5  
X: < 1.0  
MTBE: < 1.0

MW6

TRAFFIC ISLAND

Traffic Light Pole

South St

HANSON PARK

TPHd: < 50  
TPHg: < 50  
B: < 0.5  
T: < 0.5  
E: < 0.5  
X: < 0.5  
MTBE: < 1.0

MW4

TPHd: 50  
TPHg: 750  
B: < 0.5  
T: < 0.5  
E: 7.7  
X: 13  
MTBE: 1,200

LIVERMORE INN

TPHd: 3,800  
TPHg: 180,000  
B: 7,100  
T: 3,200  
E: 4,300  
X: 6,000  
MTBE: 220,000

EX1

FORMER UST PIT

TPHd: 110  
TPHg: 830  
B: 56  
T: < 0.5  
E: < 0.5  
X: < 1.0  
MTBE: 1,200

MW 1

HOLMES STREET

MW 2

PUMP ISLANDS

TPHd: < 50  
TPHg: < 50  
B: < 0.5  
T: < 0.5  
E: < 0.5  
X: < 0.5  
MTBE: < 5.0

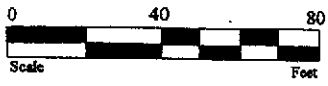
SERVICE BUILDING

Landscaping

MW 3

sidewalk

SECOND STREET



LEGEND:

TPHd: Total petroleum hydrocarbons as diesel  
TPHg: Total petroleum hydrocarbons as gasoline  
B: Benzene  
T: Toluene  
E: Ethyl-Benzene  
X: Xylenes  
MTBE: Methyl tertiary butyl ether

⊕ Groundwater Monitoring Well

July 22, 2003

**PHASE II SUBSURFACE  
INVESTIGATION REPORT**

1304 First Street  
Livermore, California

Project No. 6969

Prepared For

Mr. Carlos Ratinho  
Mountain Mike's Pizza  
1181 Orchid Street  
Livermore, CA 94550

Prepared By

**AEI Consultants**  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(800) 801-3224

**AEI**



July 22, 2003

Mr. Carlos Ratinho  
Mountain Mike's Pizza  
1181 Orchid Street  
Livermore, CA 94550

**Subject: Phase II Subsurface Investigation**  
1304 First Street  
Livermore, California  
Project No. 6969

Dear Mr. Ratinho:

The following letter report describes the activities and results of the subsurface investigation performed by AEI Consultants at the above referenced property (Figure 1: Site Location Map). The investigation included the collection and analyses of soil samples collected from five (5) soil borings advanced on the property. The project was designed to assess whether a release of petroleum hydrocarbons had occurred from a former underground storage tank (UST) located on the property.

## **I Background**

The subject property (hereinafter referred to as the "site" or "property") is located in a mixed commercial and residential area of Livermore, on the northwest corner of First Street and South S Street. The property is approximately 0.6 acre in size and is developed with an approximately 4,000 square foot building utilized as restaurant.

A Phase I Environmental Site Assessment (ESA) was performed by M.J. Klobberdanz and Associates in April 2003. Historical research revealed that the property had been utilized for a residence and gasoline service station from the early 1930s to the late 1950s and USTs were present on the property. The location of such tanks is unknown and the service station was removed in the early 1960s. A subsurface investigation was conducted in 1972 by J.H. Kleinfelder and Associates, but found no evidence of the tanks during the inspection. AEI was not provided with the results of the investigation. According to the original property owner, the former residential home was located on the northwest corner of the site.

## **II Investigative Efforts**

AEI performed a subsurface investigation at the property on July 8, 2003. A total of 5 soil borings (SB-1 through SB-5) were advanced. The locations of the borings were chosen in order to determine the possible presence of hydrocarbon contamination in the soil. The borings were

placed in the most feasibly accessible areas to cover a broad area. The locations of the soil borings are shown on Figure 2.

### ***Soil Sample Collection***

Borings SB-1, SB-2, SB-4, and SB-5 were advanced with a Geoprobe® direct push drilling rig to a depth of 20 feet below ground surface (bgs). Boring SB-3 was advanced with the Geoprobe® to a depth of 36 feet bgs. Soil samples were collected at approximately four foot intervals.

No hydrocarbon odor or soil staining was observed during the advancement of the soil borings and sample collection. The soil samples were screened in the field using a Photo-ionizing Detector (PID). The soil screening data is presented on the borings logs found in Attachment A.

Soil cores were continuously collected in 2" diameter acrylic liners, from which a six-inch sample was chosen at selected depths. The soil samples were sealed with Teflon tape and plastic caps and placed in a cooler with wet ice to await transportation to the laboratory.

### ***Laboratory Analysis***

On July 8, 2003, the soil samples were transported to McCampbell Analytical Inc. (Department of Health Services Certification #1644) under chain of custody protocol for analysis. Analytical results and chain of custody documents are included as Attachment B.

Soil samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (EPA Method 8015C), TPH as diesel (EPA Method 8015C), benzene, toluene, ethylbenzene and xylenes (BTEX) (EPA Method 8021B), and methyl tertiary butyl ether (MTBE) (EPA Method 8021B).

The remaining soil samples were placed on hold at the laboratory.

## **III Findings**

The near surface native soil encountered during the boring advancement consisted of clay underlain by gravel-sand-silt mixture to the terminus of the borehole. Refer to Attachment A for detailed logs of the borings.

No concentrations of total petroleum hydrocarbons as gasoline or its constituents were detected above laboratory limits in any of the soil samples collected during this investigation. TPH as diesel was detected just above the detection limit at a very low concentration in SB-5 16' at 1.1 mg/kg. In AEI's opinion, this finding does not represent a significant release. Soil sample analytical data is summarized in Table 1 and on Figure 2.

#### **IV Conclusions and Recommendations**

Five soil borings were advanced at the subject property, from which eleven soil samples were selected for chemical analysis. No tanks or product piping were encountered during the drilling activities. No hydrocarbon odor, soil staining or other observation indicating a release were apparent during the field activities. AEI did not find a significant release of fuel hydrocarbons at the subject property.

Based on the results of this investigation, AEI recommends no further investigations for the subject property. The owner should be aware, however, that as a condition of permitting this project under Zone 7 Water Resources Management, AEI will be required to submit a copy of the this report to be forwarded to the California Department of Water Resources.

## V Report Limitation

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work.

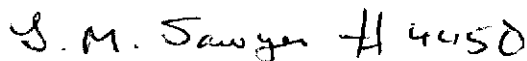
If you have any questions regarding our investigation, please do not hesitate to contact me at (925) 238-6000 x120.

Sincerely,



Brandi K. Reese  
Staff Geologist

Technical Review By:



Lorraine M. Sawyer, RG

### Figures

- Figure 1: Site Map
- Figure 2: Site Plan
- Figure 3: Soil Sample Analytical Data

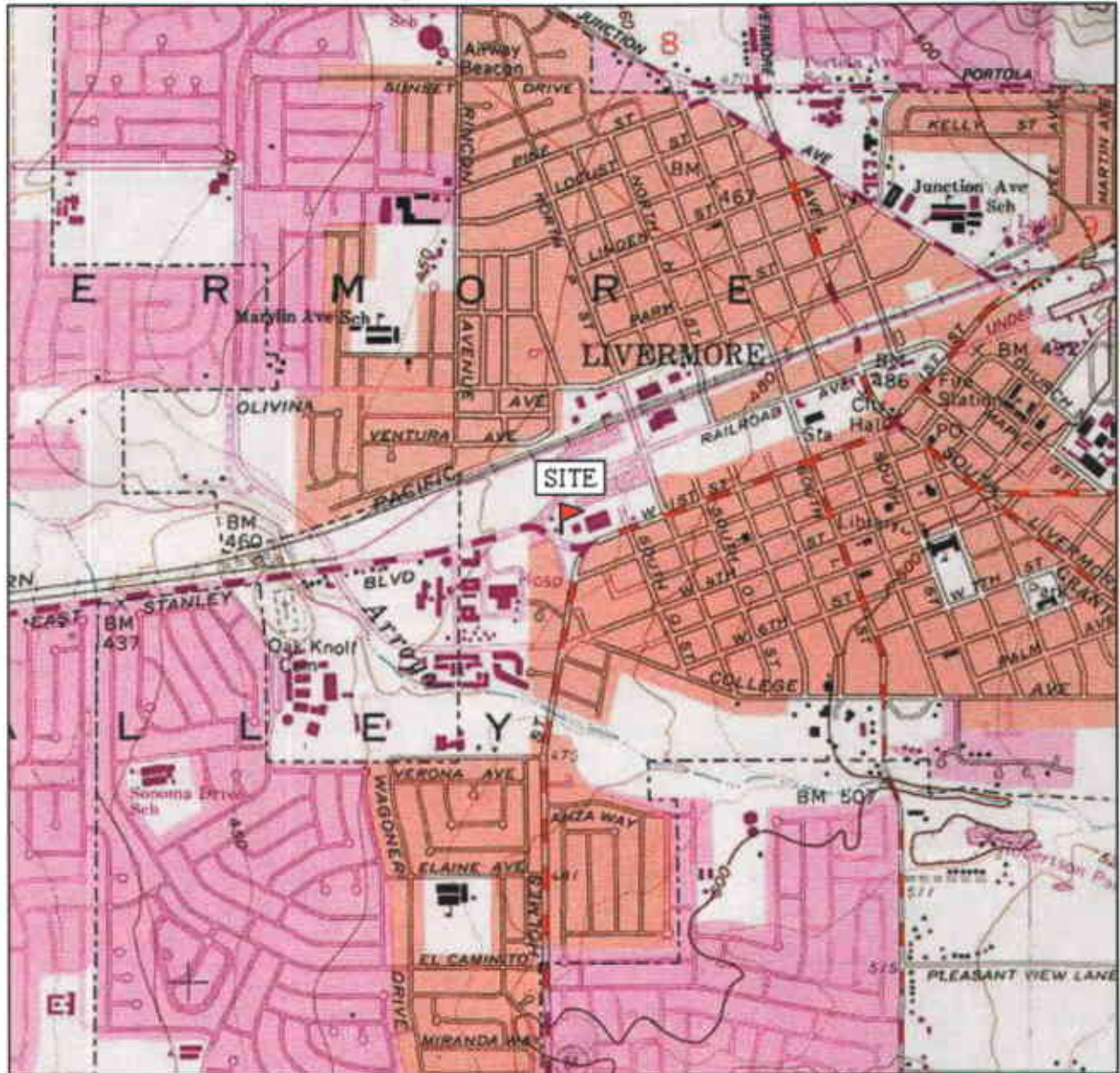
### Tables

- Table 1: Soil Sample Analytical Data

### Attachments

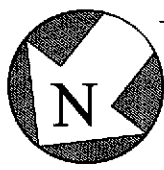
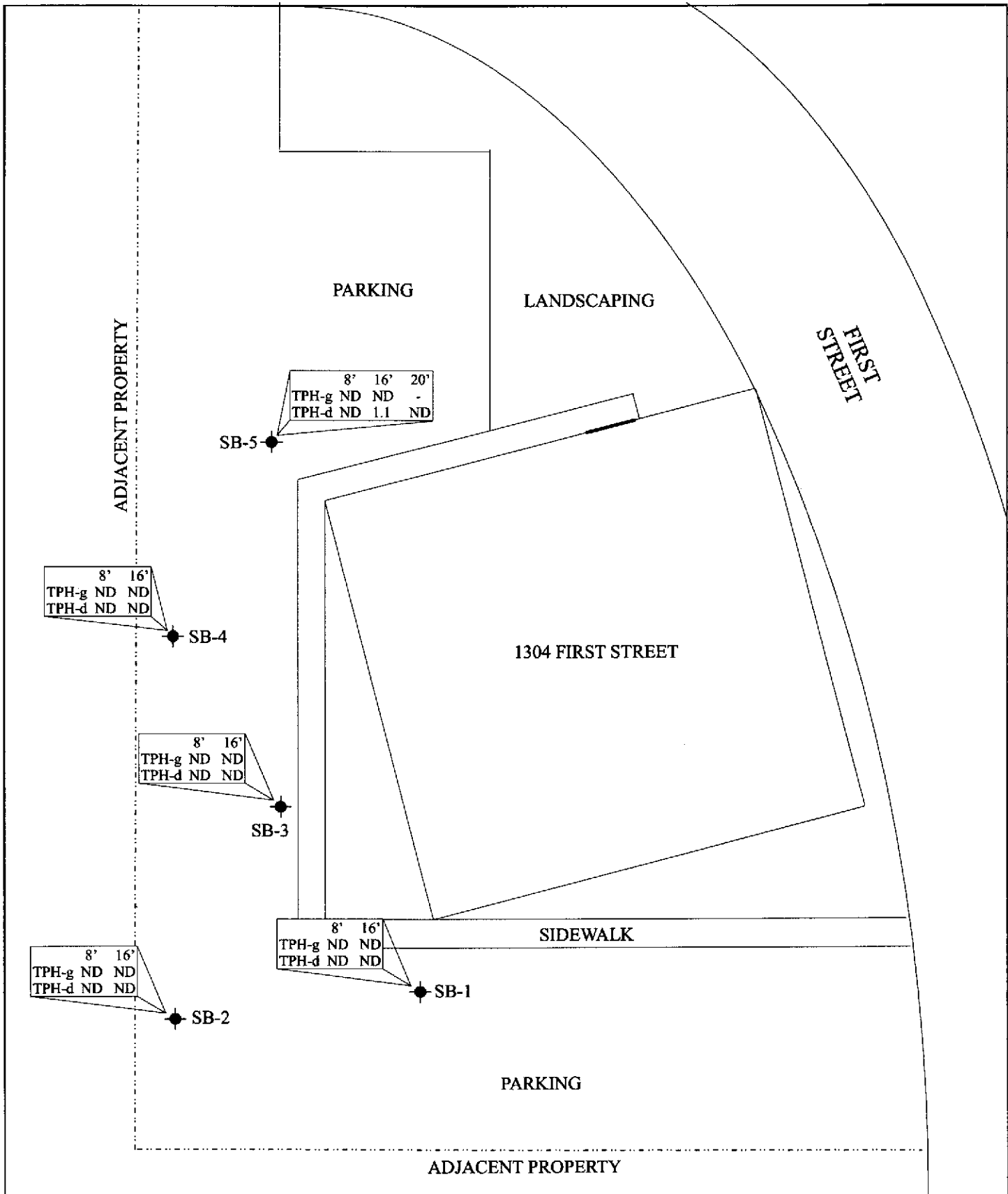
- Attachment A: Soil Boring Logs
- Attachment B: Sample Analytical Documentation
- Attachment C: Permit Documentation

LIVERMORE, CALIFORNIA QUADRANGLE 37°40.720' N, 121°46.784' W WGS84



Map created with TOPO!® ©2002 National Geographic ([www.nationalgeographic.com/topo](http://www.nationalgeographic.com/topo))

<b>AEI CONSULTANTS</b>	
<b>SITE LOCATION MAP</b>	
1304 FIRST STREET LIVERMORE, CALIFORNIA	<b>FIGURE 1</b> PROJECT NO. 6969



• Soil Boring Locations  
 with concentrations expressed as mg/kg  
 TPH-g - Total Petroleum Hydrocarbons  
 as gasoline  
 TPH-d - Total Petroleum Hydrocarbons  
 as diesel

SCALE: 1" = 25'

<b>AEI CONSULTANTS</b> 2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK, CA	
<b>SITE MAP with SOIL SAMPLE ANALYTICAL DATA</b>	
1304 FIRST STREET LIVERMORE, CALIFORNIA	<b>FIGURE 2</b> Project # 6969



**Table 1:  
Soil Sample Analytical Data**

Sample ID	TPH-g mg/kg	TPH-d mg/kg	MTBE mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-benzene mg/kg	Xylenes mg/kg
SB-1 8'	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-1 16'	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-2 8'	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-2 16'	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-3 8'	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-3 16'	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-4 8'	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-4 16'	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-5 8'	<1.0	<1.0	<0.05	<0.005	<0.005	<0.005	<0.005
SB-5 16'	<1.0	1.1	<0.05	<0.005	<0.005	<0.005	<0.005
SB-5 20'	-	<1.0	-	-	-	-	-
RL	1.0	1.0	0.05	0.005	0.005	0.005	0.005

mg/kg = milligrams per kilogram (ppm)

TPH-g = Total Petroleum Hydrocarbons as gasoline

TPH-d = Total Petroleum Hydrocarbons as diesel

MTBE = methyl-tert butyl ether

- = not analyzed for this constituent

RL = Reporting Limit where the dilution factor is 1

Please refer to Attachment B: Sample Analytical Documentation for further detailed lab information including reporting limits and dilution factors

**ATTACHMENT A**  
**SOIL BORING LOGS**

Project No: 6969


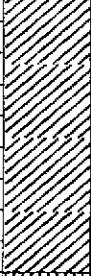


Sheet: 1 of 1

Project Name: Mountain Mike's Pizza

**Log of Borehole: SB-1**

Client: Carlos Ratinho

Location: 1304 First St., Livermore, CA

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						Start drill at 8:20
0-2			Fill						
2-10		CL	<b>Clay</b> little sand dark brown few angular gravels dry, loose poorly sorted	SB-1 4'	C		75%		PID 6.2 ppm
8-10			color change to light brown (8')	SB-1 8'	C		75%		
10-14		GM	<b>Gravel-sand-silt mixture</b> angular, coarse gravels loose poorly graded	SB-1 12'	C		80%		PID 6.4 ppm
14-16			beige increasing sands	SB-1 16'	C		100%		PID 4.5 ppm
16-18		GM	compact						PID 7.7 ppm
18-20			very slight moisture	SB-1 20'	C		100%		
20-36			End of Borehole						

Drill Date 7/8/03

Drill Method: Direct Push

Total Depth: 20'

Depth to Water: N/A

Reviewed by: PJM

Logged by: BKR

AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(925) 283-6000

Project No: 6969







Sheet: 1 of 1

Project Name: Mountain Mike's Pizza

**Log of Borehole: SB-2**

Client: Carlos Ratinho

Location: 1304 First St., Livermore, CA

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						Start drill at 9:10
			Fill						
2			<b>Clay</b> dark brown few sands few angular gravels dry, loose						PID 3.9 ppm
4		CL		SB-2 4'	C		75%		
6			<b>Clay-silt-sand mixture</b> increasing gravels medium to dark brown						PID 11.5 ppm
8				SB-2 8'	C		75%		
10			<b>Gravel-sand-silt mixture</b> tan to beige color poorly graded						PID 5.6 ppm
12		SM		SB-2 12'	C		80%		
14			very slight moisture						PID 13.7 ppm
16		GM		SB-2 16'	C		100%		
18			End of Borehole						PID 18.6 ppm
20				SB-2 20'	C		100%		
22									
24									
26									
28									
30									
32									
34									
36									

Drill Date 7/8/03

Reviewed by: PJM

AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(925) 283-6000

Drill Method: Direct Push

Logged by: BKR

Total Depth: 20'

Depth to Water: N/A

Project No: 6969


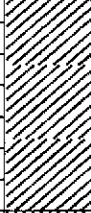

Sheet: 1 of 1

Project Name: Mountain Mike's Pizza

**Log of Borehole: SB-3**

Client: Carlos Ratinho

Location: 1304 First St., Livermore, CA

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						
0-2			Fill						Start drill at 9:45
2-8		CL	Clay few sands few angular gravels dry, loose coarse grained dark brown	SB-3 4'	C		100%		PID 27.6 ppm
8-12			Gravel-sand-silt mixture light brown to beige color little reddish clay subangular to angular gravels loose poorly graded  very slight moisture	SB-3 8'	C		50%		
12-16				SB-3 12'	C		100%		PID 8.1 ppm
16-20		GM		SB-3 16'	C		100%		PID 4.9 ppm
20-24				SB-3 20'	C		50%		PID 5.7 ppm
24-28				SB-3 24'	C		100%		
28-36			dry at 24' loose increasing clay  Hydropunch to 36' not logged						liner jam at 28'  Refusal at 36'

Drill Date 7/8/03

Reviewed by: PJM

AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(925) 283-6000

Drill Method: Direct Push

Logged by: BKR

Total Depth: 36'

Depth to Water: N/A

Project No: 6969


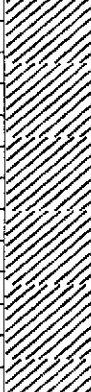
Sheet: 1 of 1

Project Name: Mountain Mike's Pizza

**Log of Borehole: SB-4**

Client: Carlos Ratinho

Location: 1304 First St., Livermore, CA

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks	
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery			
0			Ground Surface						Start drill at 11:40	
0			Fill							
2		CL	<b>Clay</b> few sands few gravels dry, loose dark brown	SB-4 4'	C		50%		PID 5.0 ppm	
4				SB-4 8'	C		100%		PID <1 ppm	
6				increasing angular gravels little silt						
8				color change to light brown	SB-4 12'	C		50%		PID <1 ppm
10		GM	<b>Gravel-sand-silt mixture</b> little reddish clay dry poorly graded							
12				SB-4 16'	C		100%		PID <1 ppm	
14										
16					SB-4 20'	C				
18			End of Borehole							
20										
22										
24										
26										
28										
30										
32										
34										
36										

Drill Date 7/8/03  
 Drill Method: Direct Push  
 Total Depth: 20'  
 Depth to Water: N/A

Reviewed by: PJM  
 Logged by: BKR

AEI Consultants  
 2500 Camino Diablo, Suite 200  
 Walnut Creek, CA 94597  
 (925) 283-6000

Project No: 6969

Sheet: 1 of 1

Project Name: Mountain Mike's Pizza

**Log of Borehole: SB-5**

Client: Carlos Ratinho

Location: 1304 First St., Livermore, CA

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks	
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery			
0			Ground Surface						Start drill at 11:40	
0			Fill							
2	CL		Clay little sand, gravel dry, loose dark brown						PID <1 ppm	
4				SB-5 4'	C		100%			
6										
8				SB-5 8'	C		100%			
10										
12			Gravel-sand-silt mixture tan/beige color poorly sorted large angular gravels						PID <1 ppm	
12				SB-5 12'	C		60%			
14	GM									
16						SB-5 16'	C			75%
18										
20				SB-5 20'	C		50%			
22			End of Borehole							
24										
26										
28										
30										
32										
34										
36										

Drill Date 7/8/03

Reviewed by: PJM

AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(925) 283-6000

Drill Method: Direct Push

Logged by: BKR

Total Depth: 20'

Depth to Water: N/A

**ATTACHMENT B**

**SAMPLE ANALYTICAL DOCUMENTATION**





McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
<http://www.mcccampbell.com> E-mail: [main@mcccampbell.com](mailto:main@mcccampbell.com)

All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #6969; Mtn. Mike's Pizza	Date Sampled: 07/08/03
		Date Received: 07/08/03
	Client Contact: Brandi Kiel-Reese	Date Reported: 07/14/03
	Client P.O.:	Date Completed: 07/11/03

**WorkOrder: 0307124**

July 11, 2003

Dear Brandi:

Enclosed are:

- 1). the results of 10 analyzed samples from your #6969; Mtn. Mike's Pizza project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager





McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597

Client Project ID: #6969; Mtn. Mike's  
 Pizza

Client Contact: Brandi Kiel-Reese

Client P.O.:

Date Sampled: 07/08/03

Date Received: 07/08/03

Date Extracted: 07/08/03

Date Analyzed: 07/08/03-07/09/03

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel\***

Extraction method: SW3550C

Analytical methods: SW8015C

Work Order: 0307124

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0307124-002A	SB-1 8'	S	ND	1	90.6
0307124-004A	SB-1 16'	S	ND	1	80.9
0307124-007A	SB-2 8'	S	ND	1	80.0
0307124-009A	SB-2 16'	S	ND	1	81.7
0307124-012A	SB-3 8'	S	ND	1	81.6
0307124-014A	SB-3 16'	S	ND	1	81.7
0307124-018A	SB-4 8'	S	ND	1	82.0
0307124-020A	SB-4 16'	S	ND	1	80.8
0307124-023A	SB-5 8'	S	ND	1	98.9
0307124-025A	SB-5 16'	S	1.1,b	1	99.1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

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### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0307124

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 7744		Spiked Sample ID: 0307124-002A				
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) <sup>E</sup>	ND	0.60	111	99.1	10.9	100	103	2.65	70	130
MTBE	ND	0.10	99.9	93.5	6.67	90.8	92.9	2.35	70	130
Benzene	ND	0.10	93.9	93.7	0.276	95	94.9	0.126	70	130
Toluene	ND	0.10	95	93.1	2.01	94.3	94.4	0.114	70	130
Ethylbenzene	ND	0.10	97.9	98.1	0.178	99.9	100	0.101	70	130
Xylenes	ND	0.30	99.7	99.7	0	100	100	0	70	130
%SS:	117	100	110	109	0.913	113	111	1.79	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>E</sup> TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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### QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0307124

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 7738			Spiked Sample ID: 0307116-015A		
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	ND	150	119	92.1	25.7	92.9	90.9	2.25	70	130
%SS:	104	100	120	111	8.31	106	103	2.22	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / (MS + MSD) * 2$ .

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.





**McC Campbell Analytical Inc.**



110 Second Avenue South, #D7  
 Pacheco, CA 94553-5560  
 (925) 798-1620

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0307124

**Client:**

All Environmental, Inc.  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597

TEL: (925) 283-6000  
 FAX: (925) 283-6121  
 ProjectNo: #6969; Mtn. Mike's Pizza  
 PO:

Date Received: 7/8/03  
 Date Printed: 7/8/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests					
					SW8015C	V8021B/8015C				
0307124-001	SB-1 4'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A				
0307124-002	SB-1 8'	Soil	7/8/03	<input type="checkbox"/>	A	A				
0307124-003	SB-1 12'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A				
0307124-004	SB-1 16'	Soil	7/8/03	<input type="checkbox"/>	A	A				
0307124-005	SB-1 20'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A				
0307124-006	SB-2 4'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A				
0307124-007	SB-2 8'	Soil	7/8/03	<input type="checkbox"/>	A	A				
0307124-008	SB-2 12'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A				
0307124-009	SB-2 16'	Soil	7/8/03	<input type="checkbox"/>	A	A				
0307124-010	SB-2 20'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A				
0307124-011	SB-3 4'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A				
0307124-012	SB-3 8'	Soil	7/8/03	<input type="checkbox"/>	A	A				
0307124-013	SB-3 12'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A				
0307124-014	SB-3 16'	Soil	7/8/03	<input type="checkbox"/>	A	A				
0307124-015	SB-3 18'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A				
0307124-016	SB-3 24'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A				

Prepared by: Melissa Valles

**Comments:**

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.



# McC Campbell Analytical Inc.



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 Pacheco, CA 94553-5560  
 (925) 798-1620

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0307124

**Client:**

All Environmental, Inc.  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597

TEL: (925) 283-6000  
 FAX: (925) 283-6121  
 ProjectNo: #6969; Mtn. Mike's Pizza  
 PO:

Date Received: 7/8/03  
 Date Printed: 7/8/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests						
					SW8015C	V8021B/8015C					
0307124-017	SB-4 4'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A					
0307124-018	SB-4 8'	Soil	7/8/03	<input type="checkbox"/>	A	A					
0307124-019	SB-4 12'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A					
0307124-020	SB-4 16'	Soil	7/8/03	<input type="checkbox"/>	A	A					
0307124-021	SB-4 20'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A					
0307124-022	SB-5 4'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A					
0307124-023	SB-5 8'	Soil	7/8/03	<input type="checkbox"/>	A	A					
0307124-024	SB-5 12'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A					
0307124-025	SB-5 16'	Soil	7/8/03	<input type="checkbox"/>	A	A					
0307124-026	SB-5 20'	Soil	7/8/03	<input checked="" type="checkbox"/>	A	A					

Prepared by: Melissa Valles

**Comments:**

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.



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<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #6969; Mtn. Mike's Pizza	Date Sampled: 07/08/03
		Date Received: 07/08/03
	Client Contact: Brandi Kiel-Reese	Date Reported: 07/14/03
	Client P.O.:	Date Completed: 07/16/03

**WorkOrder: 0307124**

July 16, 2003

Dear Brandi:

Enclosed are:

- 1). the results of 1 analyzed sample from your #6969; Mtn. Mike's Pizza project,
- 2). a QC report for the above sample
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager





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<http://www.mcccampbell.com> E-mail: [main@mcccampbell.com](mailto:main@mcccampbell.com)

### QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0307124

EPA Method: SW8015C		Extraction: SW3550C		BatchID: 7814			Spiked Sample ID: 0307124-026A			
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	ND	150	96.9	98.4	1.49	93.8	95.3	1.65	70	130
%SS:	99.8	100	104	106	1.66	103	105	1.57	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

\* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

**McCAMPBELL ANALYTICAL INC.**

110 2<sup>nd</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

**CHAIN OF CUSTODY** **RUSH**

TURN AROUND TIME

RUSH

24 HR

48 HR

72 HR

5 DAY

EDF Required?  Yes  No

Report To: Brandi K. Reese Bill To:  
Company: AEI Consultants  
2500 Camino Diablo, Suite 200 breese@  
Walnut Creek 94597 E-Mail: aeiconsultants.com  
Tele: ( ) 925-283-6000 Fax: ( ) 925-944-2895  
Project #: 6969 Project Name: Mtn. Mike's Pizza  
Project Location: LIVERMORE - 1ST STREET  
Sampler Signature: Brandi K. Reese

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED						
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO <sub>3</sub>	Other			
SB-3 18'		7-8-03		1	PLAST	X					X						
SB-3 24'																	HOLD
SB-4 4'																	HOLD
SB-4 8'																	HOLD
SB-4 12'																	HOLD
SB-4 16'																	HOLD
SB-4 20'																	HOLD
SB-5 4'																	HOLD
SB-5 8'																	HOLD
SB-5 12'																	HOLD
SB-5 16'																	HOLD
SB-5 20'																	HOLD

Analysis Request												Other	Comments				
BTEX & TPH as Gas (602/8020 + 8015)/MTBE																	
TPH as Diesel (8015) <i>added 7/15/03 per B.R.</i>																	
Total Petroleum Oil & Grease (5520 E&F/B&F)																	
Total Petroleum Hydrocarbons (418.1)																	
EPA 601 / 8010																	
BTEX ONLY (EPA 602 / 8020)																	
EPA 608 / 8080																	
EPA 608 / 8080 PCB's ONLY																	
EPA 624 / 8240 / 8260																	
EPA 625 / 8270																	
PAH's / PNA's by EPA 625 / 8270 / 8310																	
CAM-17 Metals																	
LUFT 5 Metals																	
Lead (7240/7421/239.2/6010)																	
RCI																	

Relinquished By: <i>Brandi Reese</i>	Date: 7/8	Time: 2:10	Received By: <i>Maki Walker</i>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/C: \_\_\_\_\_  
 GOOD CONDITION \_\_\_\_\_  
 HEAD SPACE ABSENT \_\_\_\_\_  
 DECHLORINATED IN LAB \_\_\_\_\_

PRESERVATION APPROPRIATE \_\_\_\_\_  
 CONTAINERS \_\_\_\_\_  
 PERSERVED IN LAB \_\_\_\_\_

VOAS \_\_\_\_\_ O&G \_\_\_\_\_ METALS \_\_\_\_\_ OTHER \_\_\_\_\_

**McC Campbell Analytical Inc.**



110 Second Avenue South, #D7  
 Pacheco, CA 94553-5560  
 (925) 798-1620

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0307124

Client:

All Environmental, Inc.  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597

TEL: (925) 283-6000  
 FAX: (925) 283-6121  
 ProjectNo: #6969; Mtn. Mike's Pizza  
 PO:

Date Received: 7/8/03  
 Date Added-On: 7/15/03  
 Date Printed: 7/15/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests						
					SW8015C						
0307124-026	SB-5 20'	Soil	7/8/03	<input type="checkbox"/>	A						

Prepared by: Melissa Valles

Comments: Sample SB-5-20' off hold & added for TPHD on a 48hr per B.R on 7/15/03

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

**ATTACHMENT C**  
**PERMIT DOCUMENTATION**

# ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235 FAX (925) 462-3914

## DRILLING PERMIT APPLICATION



FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1304 FIRST ST.  
LIVERMORE 94550  
R STREET - SOUTH STREET

PERMIT NUMBER 23077  
WELL NUMBER \_\_\_\_\_  
APN 98 0403 012 00

California Coordinates Source \_\_\_\_\_ Accuracy \_\_\_\_\_ ft.  
CCN \_\_\_\_\_ T.C.C.E. \_\_\_\_\_ ft.  
APN 038-0403-012

### PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT  
Name CARLOS RATINHO  
Address 1181 ORCAID ST. Phone 925-872-1428  
City LIVERMORE 94550 Zip \_\_\_\_\_

(A)

#### GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT  
Name BRANDI REESE - AEI CONSULTANTS  
Address 2500 CAHINO DIABLO Phone 925-283-6000  
City WALNUT CREEK Zip 94597

(B)

#### WATER SUPPLY WELLS

1. Minimum surface seal diameter is four inches greater than the well casing diameter.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:  
Well Construction  Geotechnical Investigation   
Well Destruction  Contamination Investigation   
Cathodic Protection  Other \_\_\_\_\_

(C)

#### GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

PROPOSED WELL USE:  
Domestic  Irrigation   
Municipal  Remediation   
Industrial  Groundwater Monitoring   
Dewatering  Other \_\_\_\_\_

(D)

GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremie cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:  
Mud Rotary  Air Rotary  Hollow Stem Auger   
Cable Tool  Direct Push & Other \_\_\_\_\_

(E)

CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLING COMPANY VIRONEX  
DRILLER'S LICENSE NO. 705913

(G)

WELL DESTRUCTION. See attached. SPECIAL CONDITIONS: Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

WELL SPECIFICATIONS:  
Drill Hole Diameter \_\_\_\_\_ in. Maximum \_\_\_\_\_  
Casing Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.  
Surface Seal Depth \_\_\_\_\_ ft. Number \_\_\_\_\_

SOIL BORINGS:  
Number of Borings 5 Maximum \_\_\_\_\_  
Hole Diameter 2 in. Depth 20 ft.

ESTIMATED STARTING DATE July 10, 2003  
ESTIMATED COMPLETION DATE July 10, 2003

Approved Wynman Hong Date 7/3/03  
Wynman Hong

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Brandi Reese Date 7.2.03

ATTACH SITE PLAN OR SKETCH



August 29, 2003

**PHASE II SUBSURFACE  
INVESTIGATION REPORT**

**1304 First Street  
Livermore, California**

Project No. 7251

Prepared For

**Mr. Carlos Ratinho  
Mountain Mike's Pizza  
1181 Orchid Street  
Livermore, CA 94550**

Prepared By

**AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(925) 283-6000**

**AEI**



August 29, 2003

Mr. Carlos Ratinho  
Mountain Mike's Pizza  
1181 Orchid Street  
Livermore, CA 94550

**Subject: Soil & Groundwater Investigation**  
1304 First Street  
Livermore, California  
Project No. 7251

Dear Mr. Ratinho:

The following letter report describes the activities and results of the subsurface investigation performed by AEI Consultants at the above referenced property (Figure 1: Site Location Map). The investigation included the advancement of three soil borings. The investigation was designed to assess whether the subject property had been impacted by a known release of hydrocarbons from an adjacent gasoline station and by a known release of volatile organic compounds (VOCs) in the area.

## **I Background**

The subject property (hereinafter referred to as the "site" or "property") is located in a mixed commercial and residential area of Livermore, on the northwest corner of First Street and South S Street. The property is approximately 0.6 acre in size and is developed with an estimated 4,000 square foot building utilized as restaurant.

A Phase I Environmental Site Assessment (ESA) was performed by M.J. Kloberdanz and Associates in April 2003. Historical research revealed that the property had been utilized for a residence and gasoline service station from the early 1930s to the late 1950s and USTs were present on the property. The location of such tanks is unknown and the service station was removed in the early 1960s. A subsurface investigation was conducted in 1972 by J.H. Kleinfelder and Associates, but found no evidence of the tanks during the inspection. AEI was not provided with the results of the investigation. According to the original property owner, the former residential home was located on the northwest corner of the site.

AEI conducted a Phase II Subsurface Investigation on July 8, 2003 to preliminarily assess whether a release of petroleum hydrocarbons had occurred from a former underground storage tank (UST) located on the property and placed the soil borings in the most feasibly accessible areas to cover a broad area. The samples analyzed during the prior investigation had extremely low to mostly non-detectable levels of hydrocarbons. An additional Phase II was requested to

further investigate whether the groundwater beneath the property had been impacted by any off-site source.

## **II Investigative Efforts**

AEI performed a subsurface investigation at the property on August 15, 2003. A total of 3 soil borings (SB-6 through SB-8) were advanced. The locations of the borings were chosen to assess the known off-site contaminants of concern. The locations of the soil borings are shown on Figure 2.

### ***Soil Sample Collection***

The borings were advanced with a hollow-stem auger drilling rig to a depth of 40 feet bgs. Soil samples were collected at approximately 5 to 10 foot intervals.

No significant odor or soil staining was observed during the advancement of the soil borings and sample collection. The soil samples were screened in the field using a Photo-ionizing Detector (PID). The soil screening data is presented on the borings logs found in Attachment A.

Soil cores were continuously collected in 2" diameter acrylic liners, from which a six-inch sample was chosen at selected depths. The soil samples were sealed with Teflon™ tape and plastic caps and placed in a cooler with wet ice to await transportation to the laboratory.

### ***Groundwater Sample Collection***

Upon drilling to the target depth, a clean, disposable bailer was used in each boring to facilitate collection of groundwater samples. Groundwater was encountered at 40 feet in each of the borings.

Groundwater samples were collected into one 1-liter amber bottle and two 40-mL volatile organic analysis (VOA) vials. The groundwater samples were capped so that there was no head space or visible air bubbles within the vials, then placed in a cooler with wet ice to await transportation to the laboratory. Following sample collection each boring was backfilled with neat cement grout.

### ***Laboratory Analysis***

On August 15, 2003, the soil samples were transported to McCampbell Analytical Inc. (Department of Health Services Certification #1644) under chain of custody protocol for analysis. Analytical results and chain of custody documents are included as Attachment B.

Six soil and three groundwater samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (EPA Method 8015C), TPH as diesel (EPA Method 8015C), TPH as motor oil (EPA Method 8015C), and VOCs (EPA Method 8260B).

The remaining soil samples were placed on hold at the laboratory.

### III Findings

The near surface native soil encountered during the boring advancement consisted of gravel-sand-clay mixture. Refer to Attachment A for detailed logs of the borings.

Significant soil moisture was apparent in each of the borings in the range of 35 feet bgs; however, groundwater was generally measured in the borings at approximately 37 to 39.5 feet bgs. Based on local topography, groundwater beneath the area generally flows in a southward direction.

No hydrocarbon concentrations or VOCs were detected in the six additional soil samples. No hydrocarbon concentrations were detected in the three groundwater samples. Benzene was detected in water sample SB-6W at 0.76 micrograms per liter ( $\mu\text{g/l}$ ). Toluene was detected in water sample SB-6W and SB-7 at 0.99  $\mu\text{g/l}$  and 0.59  $\mu\text{g/l}$ , respectively. MTBE was detected in each of the three water samples at 11  $\mu\text{g/l}$  (SB-6W), 0.75  $\mu\text{g/l}$  (SB-7W) and 1,400  $\mu\text{g/l}$  (SB-8W). No other VOCs were detected above reporting limits in the three water samples.

Soil sample analytical data is summarized in Table 1, and groundwater sample analytical data is summarized in Table 2.

### IV Conclusions and Recommendations

Three soil borings were advanced to groundwater in order to investigate assess if the property had been impacted by a known release of VOCs in the area or by hydrocarbons from an adjacent gasoline station. Due to the lack of any chlorinated VOCs detected in the water samples, it does not appear that the chlorinated VOC plume has migrated under the subject property.

The groundwater beneath the site has been impacted, particularly by MTBE. The MTBE present in sample SB-8W (1,400  $\mu\text{g/l}$ ), is well above water quality standards for beneficial or potentially beneficial use aquifers in California, 5.0  $\mu\text{g/l}$  to 13  $\mu\text{g/l}$ . MTBE was not generally present in gasoline prior to approximately 1978, while the former gasoline station on the subject property was reportedly demolished in the 1960s. Due to the lack of any detection of MTBE in the soil samples analyzed during this and the previous phase of investigation, it is probable that the MTBE present in the groundwater has originated from an off-site source. Based on these findings, it is unlikely that the current or future owners of the subject property would be held liable for the MTBE detected during this investigation.

It is also possible that the toluene and benzene present in the groundwater have originated from an offsite source. The maximum contaminant levels (MCLs) for these contaminants are 150  $\mu\text{g/l}$  and 5  $\mu\text{g/l}$ , respectively, and have not been exceeded in any case.

The owner should be aware that as a condition of permitting this project under Zone 7 Water Resources Management, AEI will be required to submit a copy of the this report to be forwarded to the California Department of Water Resources.

Based on the results of this investigation, AEI recommends no further investigations for the subject property, unless required by a regulatory agency.

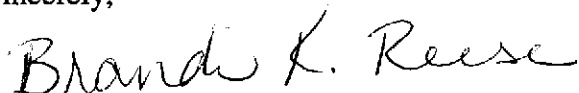
## V Report Limitation

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work.

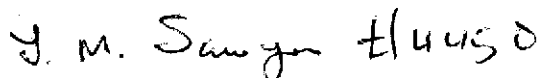
If you have any questions regarding our investigation, please do not hesitate to contact me at (925) 283-6000 x120.

Sincerely,



Brandi K. Reese  
Staff Geologist

Technical Review By:



Lorraine M. Sawyer, RG

### Figures

Figure 1: Site Map

Figure 2: Site Plan with Groundwater Sample Analytical Data

### Tables

Table 1: Soil Sample Analytical Data

Table 2: Groundwater Sample Analytical Data

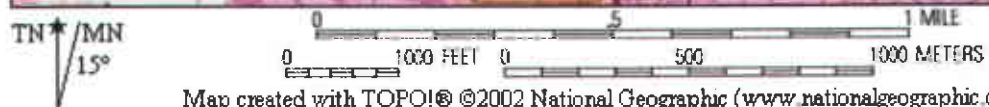
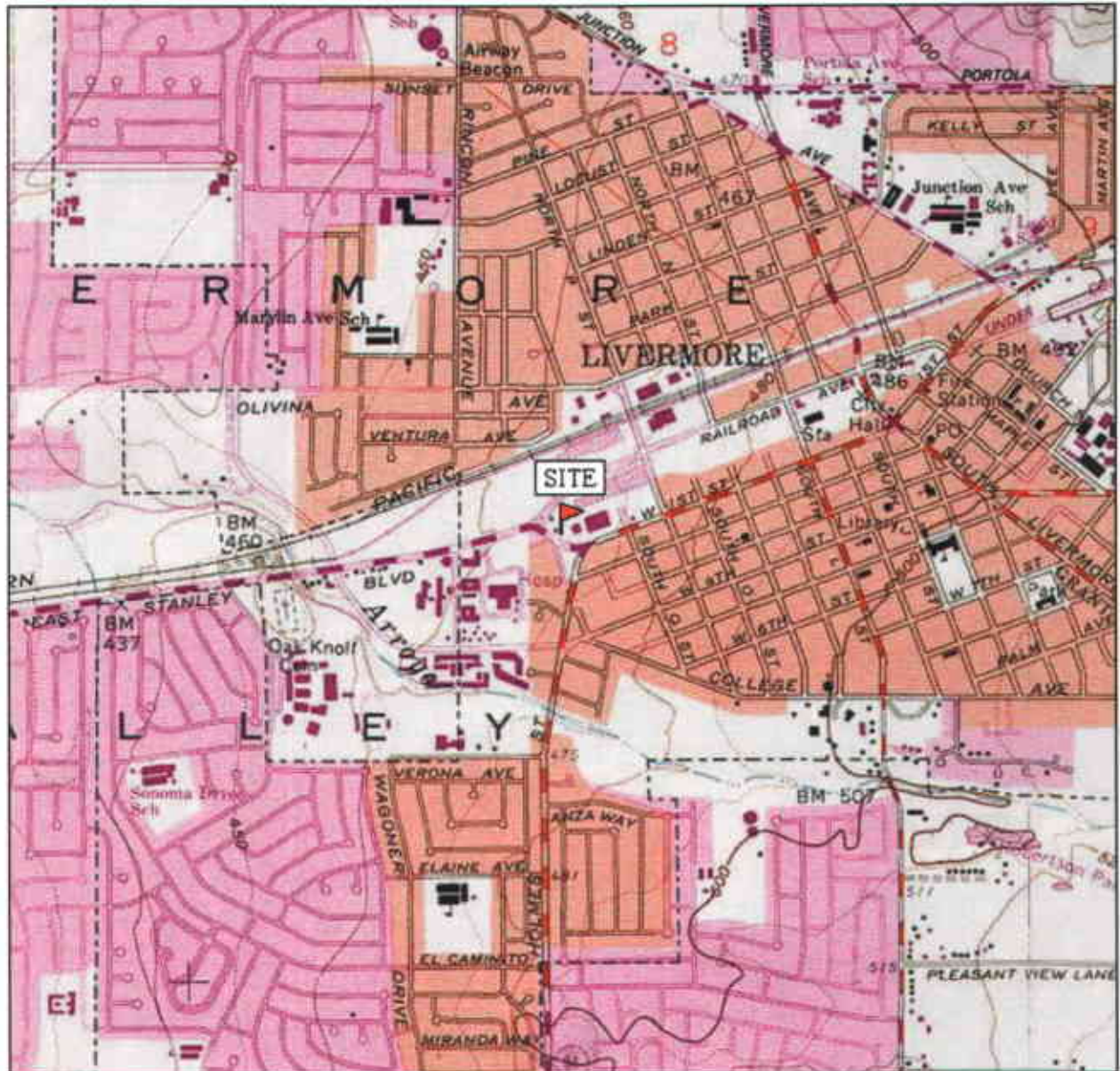
### Attachments

Attachment A: Soil Boring Logs

Attachment B: Sample Analytical Documentation

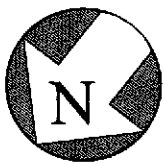
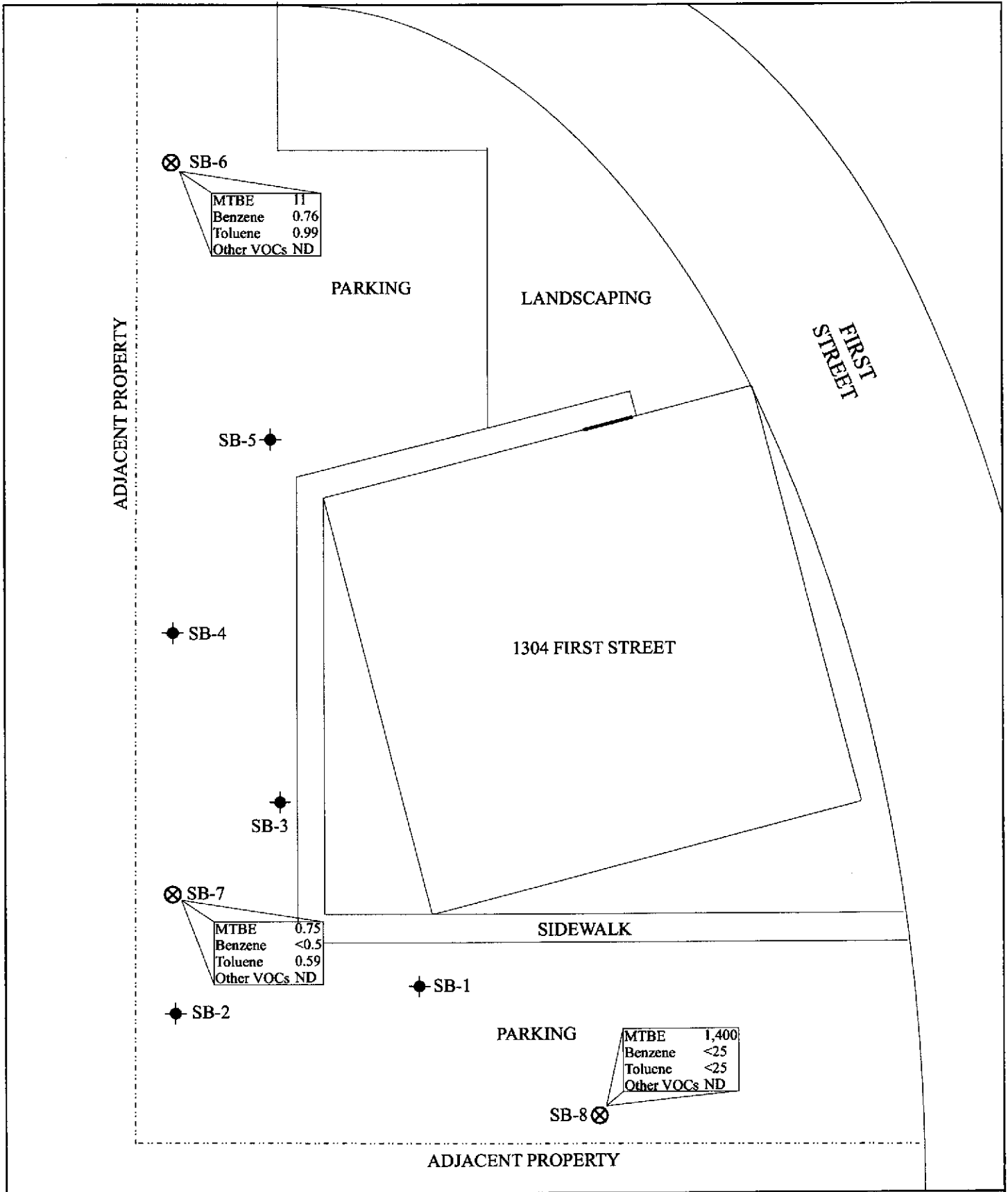
Attachment C: Permit Documentation

LIVERMORE, CALIFORNIA QUADRANGLE 37°40.720' N, 121°46.784' W WGS84



Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)

<b>AEI CONSULTANTS</b>	
<b>SITE LOCATION MAP</b>	
1304 FIRST STREET LIVERMORE, CALIFORNIA	<b>FIGURE 1</b> PROJECT No. 7251



- ◆ Previous Soil Boring Locations
- ⊗ Soil Boring Locations with concentrations expressed as µg/L  
 MTBE - Methyl Tert-Butyl Ether  
 VOCs - Volatile Organic Compounds  
 ND - Not Detected

SCALE: 1" = 25'

<b>AEI CONSULTANTS</b> 2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK, CA	
<b>SITE MAP with GROUNDWATER          SAMPLE ANALYTICAL DATA</b>	
1304 FIRST STREET LIVERMORE, CALIFORNIA	<b>FIGURE 2</b> Project # 7251



**Table 1:  
Soil Sample Analytical Data**

Sample ID	TPH-g mg/kg	TPH-d mg/kg	TPH-mo mg/kg	VOCs mg/kg
SB-6 20'	<1.0	<1.0	<5.0	All<MDL
SB-6 35'	<1.0	<1.0	<5.0	All<MDL
SB-7 20'	<1.0	<1.0	<5.0	All<MDL
SB-7 30'	<1.0	<1.0	<5.0	All<MDL
SB-8 20'	<1.0	<1.0	<5.0	All<MDL
SB-8 20'	<1.0	<1.0	<5.0	All<MDL
MDL	1.0	1.0	5.0	

mg/kg = milligrams per kilogram (ppm)

TPH-g = Total Petroleum Hydrocarbons as gasoline

TPH-d = Total Petroleum Hydrocarbons as diesel

TPH-mo = Total Petroleum Hydrocarbons as motor oil

VOCs = Volatile Organic Analysis

MDL = Method Detection Limit where the dilution factor is 1

Please refer to Attachment B: Sample Analytical Documentation for further detailed lab information including reporting limits and dilution factors

**Table 2:  
Groundwater Sample Analytical Data**

Sample ID	TPH-g µg/L	TPH-d µg/L	TPH-mo µg/L	MTBE µg/L	Benzene µg/L	Toluene µg/L	Other VOCs µg/L
SB-6 W	<1.0	<1.0	<0.05	11	0.76	0.99	All<MDL
SB-7 W	<1.0	<1.0	<0.05	0.75	<0.5	0.59	All<MDL
SB-8 W	<1.0	<1.0	<0.05	1,400	<25	<25	All<MDL
MDL	50	50	250	0.5	0.5	0.5	

µg/L = micrograms per liter (ppb)

TPH-g = Total Petroleum Hydrocarbons as gasoline

TPH-d = Total Petroleum Hydrocarbons as diesel

TPH-mo = Total Petroleum Hydrocarbons as motor oil

VOCs = Volatile Organic Compounds

MDL = Method Detection Limit where the dilution factor is 1

Please refer to Attachment B: Sample Analytical Documentation for further detailed lab information including reporting limits and dilution factors

**ATTACHMENT A**  
**SOIL BORING LOGS**

Project No: 7251

Sheet: 1 of 1

Project Name: Mountain Mike's Pizza

### Log of Borehole: SB-6

Client: Mr. Carlos Ratinho

Location: 1304 First Street, Livermore, CA

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						Start at 7:40 AM
			<b>Fill/Asphalt</b>						
2		GC	<b>Sand-clay-gravel mixture</b> angular, fine to coarse gravels coarse sands loose very poorly sorted very slight moisture	SB-6 10'	SS	7-15-31	15%		PID < 1ppm
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24			little reddish color clay increased moisture						
26				SB-6 25'	SS	8-15-15	10%		
28									
30		GC	soft, crumbly larger gravels coarse sand increased clay	SB-6 35'	SS	22-20-32	15%		2 VOAs / 1 L at 8:45 AM
32									
34									
36									
38									
40				SB-6 W	GW				

Drill Date: 8/15/03

Reviewed by: PJM

AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(925) 283-6000

Drill Method: Hollow Stem Auger

Logged by: BKR

Total Depth: 40'

Depth to Water: 38'

Project No: 7251


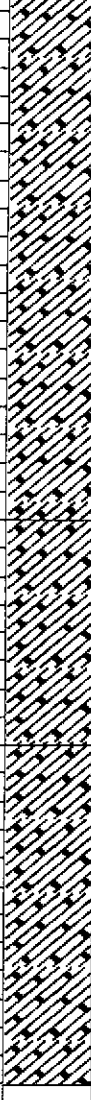
Sheet: 1 of 1

Project Name: Mountain Mike's Pizza

**Log of Borehole: SB-7**

Client: Mr. Carlos Ratinho

Location: 1304 First Street, Livermore, CA

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery		
0			Ground Surface						Start at 10:25 AM
0-2			Fill/Asphalt						
2-38		GC	Gravel-sand-clay mixture angular gravels coarse sands loose, dry poorly sorted medium brown to reddish color	SB-7 10'	SS	14-20-18	10%		PID > 100 ppm
20-22			slight moisture in areas	SB-7 20'	SS	10-17-22	15%		
30-32		GC	soft larger gravels increased clay increased moisture	SB-7 30'	SS	8-16-22	15%		
38-40			saturated at 38'	SB-7 W	GW				2 VOAs / 1 L at 11:20 AM

Drill Date: 8/15/03

Drill Method: Hollow Stem Auger

Total Depth: 40'

Depth to Water: 37'

Reviewed by: PJM

Logged by: BKR

AEI Consultants  
2500 Camino Diablo, Suite 200  
Walnut Creek, CA 94597  
(925) 283-6000

Project No: 7251

Sheet: 1 of 1

Project Name: Mountain Mike's Pizza

**Log of Borehole: SB-8**

Client: Mr. Carlos Ratinho

Location: 1304 First Street, Livermore, CA

Depth	USCS		Subsurface Description	Sample Data				Well Data	Remarks		
	Symbol	Label		Sample Label	Type	Blow/ft	Recovery				
0			Ground Surface						Start at 1:10 AM		
			<i>Fill/Asphalt</i>								
2	[Hatched Pattern]	GC	Gravel-sand-clay mixture angular, fine to coarse gravels coarse sands loose, dry poorly sorted medium brown to reddish color								
4											
6											
8											
10							SB-8 10'	SS	20-25-25	10%	
12											
14											
16											
18											
20							SB-8 20'	SS	20-23-29	15%	PID 37.2 ppm
22											
24			slight moisture in areas								
26											
28											
30			soft	SB-8 30'	SS	16-22-35	15%	PID > 100 ppm			
32		GC	increased clay increased moisture								
34											
36											
38			saturated at 38'								
40				SB-8 W	GW			2 VOAs / 1 L at 11:20 AM			

Drill Date: 8/15/03  
 Drill Method: Hollow Stem Auger  
 Total Depth: 40'  
 Depth to Water: 39.5'

Reviewed by: PJM  
 Logged by: BKR

AEI Consultants  
 2500 Camino Diablo, Suite 200  
 Walnut Creek, CA 94597  
 (925) 283-6000

**ATTACHMENT B**

**SAMPLE ANALYTICAL DOCUMENTATION**



**McC Campbell Analytical Inc.**

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #7251; MTN. Mike's	Date Sampled: 08/15/03
		Date Received: 08/15/03
	Client Contact: Brandi Kiel-Reese	Date Extracted: 08/15/03
	Client P.O.:	Date Analyzed: 08/15/03-08/16/03

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\***

Extraction method: SW5030B Analytical methods: SW8015Cm Work Order: 0308250

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
002A	SB-6 20'	S	ND	1	111
004A	SB-6 35'	S	ND	1	115
006A	SB-7 20'	S	ND	1	116
007A	SB-7 30'	S	ND	1	114
009A	SB-8 20'	S	ND	1	116
010A	SB-8 30'	S	ND	1	115
011A	SB-6W	W	ND,i	1	102
012A	SB-7W	W	ND,i	1	107
013A	SB-8W	W	ND,i	1	106

Reporting Limit for DF=1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	1.0	mg/Kg

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

i) cluttered chromatogram; sample peak coelutes with surrogate peak.

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas); m) no recognizable pattern.

DHS Certification No. 1644

*Angela Rydelius* Angela Rydelius, Lab Manager





McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560.  
 Telephone: 925-798-1620 Fax: 925-798-1622  
 http://www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597

Client Project ID: #7251; MTN. Mike's

Date Sampled: 08/15/03

Date Received: 08/15/03

Client Contact: Brandi Kiel-Reese

Date Extracted: 08/15/03

Client P.O.:

Date Analyzed: 08/16/03

**Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\***

Extraction method: SW3550C

Analytical methods: SW8015C

Work Order: 0308250

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0308250-002A	SB-6 20'	S	ND	ND	1	97.5
0308250-004A	SB-6 35'	S	ND	ND	1	98.8
0308250-006A	SB-7 20'	S	ND	ND	1	98.3
0308250-007A	SB-7 30'	S	ND	ND	1	97.8
0308250-009A	SB-8 20'	S	ND	ND	1	98.8
0308250-010A	SB-8 30'	S	ND	ND	1	99.0
0308250-011A	SB-6W	W	ND,i	ND	1	101
0308250-012A	SB-7W	W	ND,i	ND	1	98.2
0308250-013A	SB-8W	W	ND,i	ND	1	102

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	1.0	5.0	mg/Kg

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

*Angela Rydelius*, Lab Manager

McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 http://www.mccampbell.com E-mail: main@mccampbell.com

AE Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #7251; MTN. Mike's	Date Sampled: 08/15/03
		Date Received: 08/15/03
	Client Contact: Brandi Kiel-Reese	Date Extracted: 08/15/03
	Client P.O.:	Date Analyzed: 08/15/03-08/18/03

**Volatiles Organics by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308250

Lab ID	0308250-002A						
Client ID	SB-6 20'						
Matrix	Soil						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (BDE)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	50	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethane	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

**Surrogate Recoveries (%)**

%SS1:	92.7	%SS2:	107
%SS3:	112		

Comments:  
 \* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.  
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.  
 # surrogate diluted out of range or surrogate coelutes with another peak.  
 h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager

McCampbell Analytical Inc.

110 2nd Avenue South, #27, Pacheco, CA 94553-5560  
 Telephone: 925-798-1620 Fax: 925-798-1622  
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Al Environmental, Inc.  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597

Client Project ID: #7251; MTN. Mike's  
 Client Contact: Brandi Kiel-Reese  
 Client P.O.:

Date Sampled: 08/15/03  
 Date Received: 08/15/03  
 Date Extracted: 08/15/03  
 Date Analyzed: 08/15/03-08/18/03

Volatiles Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308250

Lab ID	0308250-004A						
Client ID	SB-6 35'						
Matrix	Soil						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	50	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	94.3	%SS2:	106
%SS3:	107		

Comments:

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager

McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone: 925-798-1620 Fax: 925-798-1622  
 http://www.mccampbell.com E-mail: main@mccampbell.com

Al Environmental, Inc.  
 2500 Camino Diablo, Ste. #200  
 Walnut Creek, CA 94597

Client Project ID: #7751; MTN, Mike's  
 Client Contact: Brandi Kiel-Reese  
 Client P.O.:

Date Sampled: 08/15/03  
 Date Received: 08/15/03  
 Date Extracted: 08/15/03  
 Date Analyzed: 08/15/03-08/18/03

**Volatiles Organics by P&T and GC/MS (Basic Target List)\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0308250

Lab ID	0308250-006A						
Client ID	SB-7 20'						
Matrix	Soil						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	50	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

**Surrogate Recoveries (%)**

%SS1:	91.3	%SS2:	105
%SS3:	110		

**Comments:**

\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oi/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

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All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #7251; MTN. Mike's	Date Sampled: 08/15/03
		Date Received: 08/15/03
	Client Contact: Brandi Kjel-Reese	Date Extracted: 08/15/03
	Client P.O.:	Date Analyzed: 08/15/03-08/18/03

Volatiles Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW3260B

Work Order: 0308250

Lab ID	0308250-007A
Client ID	SB-7 30'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
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2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	50	isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	90.9	%SS2:	105
%SS3:	106		

Comments:


\* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

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h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager

**ATTACHMENT C**  
**PERMIT DOCUMENTATION**



# ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235 FAX (925) 462-3914

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1304 1st St.  
LIVERMORE

PERMIT NUMBER 23103  
WELL NUMBER \_\_\_\_\_  
APN 098-0403-012-00

California Coordinates Source \_\_\_\_\_ Accuracy \_\_\_\_\_ ft.  
NAD 83 \_\_\_\_\_ ft. CCE \_\_\_\_\_ ft.  
APN 098-0403-012-00

### PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT Name CARLOS RATINHO  
Address 1181 ORCHID ST. Phone \_\_\_\_\_  
City LIVERMORE Zip 94550

- A. GENERAL
  1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
  2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
  3. Permit is void if project not begun within 90 days of approval date.

APPLICANT Name AEI CONSULTANTS  
Address 2600 CAMINO DIABLO Fax 925-283-6121  
City STE. 200 Phone 925-283-6000  
City WALNUT CREEK Zip 94597

- B. WATER SUPPLY WELLS
  1. Minimum surface seal diameter is four inches greater than the well casing diameter.
  2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
  3. Grout placed by tremie.
  4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
  5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:  
Well Construction  Geotechnical Investigation   
Well Destruction  Contamination Investigation   
Cathodic Protection  Other \_\_\_\_\_

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
  1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
  2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
  3. Grout placed by tremie.

PROPOSED WELL USE:  
Domestic  Irrigation   
Municipal  Remediation   
Industrial  Groundwater Monitoring   
Dewatering  Other \_\_\_\_\_

- D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:  
Mud Rotary  Air Rotary  Hollow Stem Auger   
Cable Tool  Direct Push  Other \_\_\_\_\_

- E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLING COMPANY HEW  
DRILLER'S LICENSE NO. 604987

- F. WELL DESTRUCTION. See attached.
- G. SPECIAL CONDITIONS: Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

WELL SPECIFICATIONS:  
Drill Hole Diameter \_\_\_\_\_ in. Maximum \_\_\_\_\_  
Casing Diameter \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.  
Surface Seal Depth \_\_\_\_\_ ft. Number \_\_\_\_\_

OIL BORINGS:  
Number of Borings 3 Maximum \_\_\_\_\_  
Hole Diameter 2 1/4 in. Depth 50 ft.

ESTIMATED STARTING DATE 8/15/03  
ESTIMATED COMPLETION DATE 8/15/03

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wyman Hong Date 8/14/03  
Wyman Hong

APPLICANT'S SIGNATURE Brandi Reese Date 8/14/03

ATTACH SITE PLAN OR SKETCH