

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION (LOP)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

February 14, 1997

Ms. Florence Ann Connors  
1658 Del Dayo Dr.  
Carmichael, CA 95608

Re: Joe Sio Chevrolet, 914 San Pablo Avenue, Albany, CA 94706  
[STID 3808]

Dear Ms. Connors,

This letter confirms the completion of site investigation and remedial action for the two underground storage tanks formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated. Enclosed is the Case Closure Summary for the referenced site for your records.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

  
Mee Ling Tung  
Director of Environmental Health Services

Attachment

c: ~~Acting Chief~~, Hazardous Materials Division - files  
Juliet Shin, ACDEH  
Kevin Graves, RWQCB  
Lori Casias, SWRCB (w/ enclosure)  
Cheryl Gordon, SWRCB Cleanup Fund

01-1712

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**

**I. AGENCY INFORMATION**

Date: December 2, 1996

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy.  
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700  
Responsible staff person: Juliet Shin Title: Senior HMS

**II. CASE INFORMATION**

Site facility name: Joe Sio Chevrolet (Automobile Dealership)  
Site facility address: 914 San Pablo Ave, Albany, CA 94706  
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3808  
URF filing date: 9/1/94 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Florence Ann Connors	1658 Del Dayo Dr. Carmichael, CA 95608	916-489-7903

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	550 gallons	gasoline	removed	3/20/89
2	550 gallons	waste oil	removed	3/20/89

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and type of release: Unknown Site characterization complete? YES

Date approved by oversight agency: December 2, 1996

Monitoring Wells installed? Yes Number: three

Proper screened interval? Yes MW-1(10'-30'bgs); MW-2(8'-28'bgs); MW-3(7'-27'bgs)

Highest GW depth below ground surface: 5.44'bgs Lowest depth: 12.10'bgs

Flow direction: The groundwater flow direction has varied 360 degrees. However, the groundwater elevations collected from Well MW-1 may not be accurate due to the fact that it was installed in the tank pit with more permeable backfill material, such as gravel, than the surrounding clayey material.

Most sensitive current use: Unknown

Are drinking water wells affected? NO Aquifer name: Unknown

JAN 28 1997

## Leaking Underground Fuel Storage Tank Program

Is surface water affected? NO    Nearest affected SW name: None

Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES    Where is report(s) filed? Alameda County  
 1131 Harbor Bay Pkwy.  
 Alameda, CA 94502

### Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> (include units)	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tanks	two	H & H Environmental Services 220 China Basin San Francisco, CA 94107	3/20/89
Excavated Soil	Unknown	Unknown	

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

#### Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before <sup>1</sup>	After	Before <sup>2</sup>	After
TPH (Gas)	1,300		2,500	ND
TPH (Diesel)	ND		NA	NA
Total Oil & Grease	ND		ND	ND
Benzene	8.6		880	8.4
Toluene	100		22	ND
Xylene	320		87	6.9
Ethylbenzene	41		79	2.9
Chlorinated Hydrocarbons	ND		<sup>3</sup>	<sup>4</sup>
Polynuclear Aromatic Hydrocarbons	ND		NA	
Heavy Metals	NA		<sup>5</sup>	ND <sup>6</sup>

NA-Not Analyzed

<sup>1</sup>-Soil sample collected from the gasoline tank pit during the tank removal. Commensurate contaminant concentrations are thought to have been left in place.

<sup>2</sup>-Collected from Well MW-1 within the first several groundwater sampling events.

<sup>3</sup>-Since analysis for chlorinated hydrocarbons in groundwater began in 1994, up to 0.94ppb chloromethane, 0.98ppb carbon tetrachloride, 0.58ppb trichloroethene (TCE), 0.51ppb cis-1,2-dichloroethene (DCE), and 100ppb tetrachloroethene (PCE) were identified from Well MW-2.

<sup>4</sup>-The analysis results for the most recent groundwater sample collected from Well MW-2 identified no chloromethane, 1ppb carbon tetrachloride, 0.80ppb TCE, 0.80ppb cis-1,2-DCE, and 57ppb PCE.

<sup>5</sup>-19ppb cadmium, 640ppb chromium, 220ppb lead, 860ppb nickel, and 1,300ppb zinc were identified within the first five to six monitoring events from Well MW-3.

<sup>6</sup>-metal concentrations were ND after water samples were placed through 0.45 micron filter

Leaking Underground Fuel Storage Tank Program

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **Undetermined**

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **Undetermined**

Does corrective action protect public health for current land use? **YES**

Site management requirements: **NA**

Should corrective action be reviewed if land use changes? **NO**

Monitoring wells Decommissioned: **NO Will be decommissioned upon receipt of case closure.**

Number Decommissioned:

Number Retained:

List enforcement actions taken: **None**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Juliet Shin**

Title: **Senior HMS**

Signature: *Juliet Shin*

Date: *12/17/96*

Reviewed by

Name: **Eva Chu**

Title: **Hazardous Materials Specialist**

Signature: *Eva Chu*

Date: *12/12/96*

Name: **Thomas Peacock**

Title: **Supervising HMS**

Signature: *Thomas Peacock*

Date: *1-2-97*

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response: *Approved*

RWQCB Staff Name: **Kevin Graves**

Title: **San. Engineering Asso.** Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

*JKG 1/7/97*

The site is located approximately one mile east of San Francisco Bay (refer to attached Figure 1). A Chevrolet dealership used to be housed in the three on-site buildings.

One 550-gallon gasoline underground storage tank (UST) and one 550-gallon waste oil UST was removed from the site on March 20, 1989 by Petroleum

## Leaking Underground Fuel Storage Tank Program

Engineering, Inc. of Santa Rosa, California. One soil sample was collected from each of the two tank pits. The soil sample collected from the gasoline tank pit, H-1, was analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX). The soil sample collected from the waste oil tank pit, H-3, was analyzed for TPHg, Total Oil & Grease, TPH as diesel (TPHd), chlorinated hydrocarbons, polynuclear aromatic hydrocarbons (PNAs), and BTEX. Analysis of sample H-1 identified 1,300 parts per million (ppm) TPHg, 8.6ppm benzene, 100ppm toluene, 41ppm ethylbenzene, and 320ppm xylenes. Analysis of H-3 identified 0.009ppm toluene and 0.007ppm xylenes (refer to attached Table 1 and Figure 2). The excavated soil from both the gas and waste oil tank pits was sampled and identified up to 270ppm TPHg, 1.6ppm toluene, and 22ppm total xylenes. The fate of this stockpiled soil is unknown.

No further excavation, to remove the contaminated soil from the gasoline tank pit, could be conducted due to the presence of utility lines in the tank excavation and the potential threat to the structural integrity of the adjacent building.

On July 24 and 25, 1991, three groundwater monitoring wells, MW-1 through MW-3, were installed at the site (refer to attached Figure 3 and boring logs). Approximately 8 feet of fill material was encountered during the installation of Wells MW-1 and MW-3. Groundwater was encountered in the borings at ~15- to 23-feet below ground surface (bgs) and stabilized at ~8-feet bgs, suggesting that the groundwater is under semi-confined conditions. However, the monitoring wells do screen partially across this semi-confined aquifer. Soil samples were collected from each of the well locations at ~10-feet bgs, and analyzed for TPHg and BTEX. The soil sample collected from Well MW-3, located nearest to the former waste oil UST, was also analyzed for Total Oil & Grease. Only the soil sample collected from Well MW-1, located in the former gasoline tank pit, identified any contaminants above detection limits: 4ppm TPHg, 0.310ppm benzene, 0.140ppm toluene, and 0.069ppm total xylenes. This contamination appears to be roughly the vertical extent of the soil contamination initially identified in the tank pit during the tank removal. Since the initial groundwater sampling event in 1991, regular quarterly groundwater sampling of these three wells took place from 4/15/94 to 9/25/96.

During the 3rd and 4th quarter 1994 groundwater sampling events conducted at the site, analysis of groundwater samples collected from Well MW-2 identified a matrix interference which was due to the presence of tetrachloroethylene (PCE). Due to the detection of PCE, all subsequent groundwater samples collected from Well MW-2 were analyzed for chlorinated

## Leaking Underground Fuel Storage Tank Program

hydrocarbons, although there is no known on-site source for these chlorinated hydrocarbons. Since that time, up to 0.94ppb chloromethane, 1.1ppb carbon tetrachloride, 0.80ppb trichloroethene (TCE), 0.80ppb cis-1,2-dichloroethene (DCE), and 100ppb PCE have been identified in groundwater samples collected from Well MW-2. In the last six quarters of groundwater monitoring, the levels of chloromethane and PCE have greatly attenuated to Non Detect and 57ppb. The levels of Carbon Tetrachloride, TCE, and DCE have remained relatively the same. The levels of TCE and DCE identified do not exceed the Maximum Contaminant Levels (MCLs) of 5ppb and 6ppb for California drinking water standards. Although the level of carbon tetrachloride exceeds the California MCL of 0.5ppb, it does not exceed the Federal MCL of 5ppb.

On September 25, 1996, three additional borings, (B-101, B-102, and B-103), were emplaced at the site in order to better characterize the soil and groundwater contamination at the site (refer to attached Figure 4). Borings B-101, B-102, and B-103 were completed to depths of 25-, 30-, and 14-feet bgs, respectively. One soil sample was collected from Boring B-101 and B-103 at 10-feet bgs, and two soil samples were collected from Boring B-102 at 10- and 20-feet bgs. Attempts were made to collect groundwater samples from Borings B-102 and B-103, however, they remained dry through the completion of site activities. One "grab" groundwater sample was collected from Boring B-101. Both soil and groundwater samples were analyzed for TPHg and BTEX. No soil contamination was identified in any of the samples above detection limits. Analysis of the groundwater sample identified 2,300ppb TPHg, 28ppb toluene, 70ppb ethylbenzene, and 480ppb Total xylenes (refer to attached Table 6).

In November 1996, a human health risk assessment was conducted for the remaining concentrations of TPHg and BTEX in groundwater and soil. This risk assessment was conducted using the American Society for Testing and Materials' Risk-Based Corrective Action Guidelines (E 1739-95) (ASTM RBCA). The maximum historical groundwater benzene concentration of 880ppb was used in the assessment. The risk assessment concluded that concentrations of BTEX identified in soil and groundwater at the site did not pose a human health risk exceeding  $1.0 \times 10^{-5}$  excess cancer risk and 1.0 chronic hazard quotient. Additionally, this office conducted a risk assessment, using ASTM RBCA, for the remaining PCE concentrations in groundwater, and it was determined that these levels of PCE did not pose a human health risk exceeding  $1.0 \times 10^{-5}$  excess cancer risk.

## Leaking Underground Fuel Storage Tank Program

In summary, this office is recommending that this case be closed based on the following rationale:

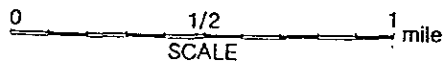
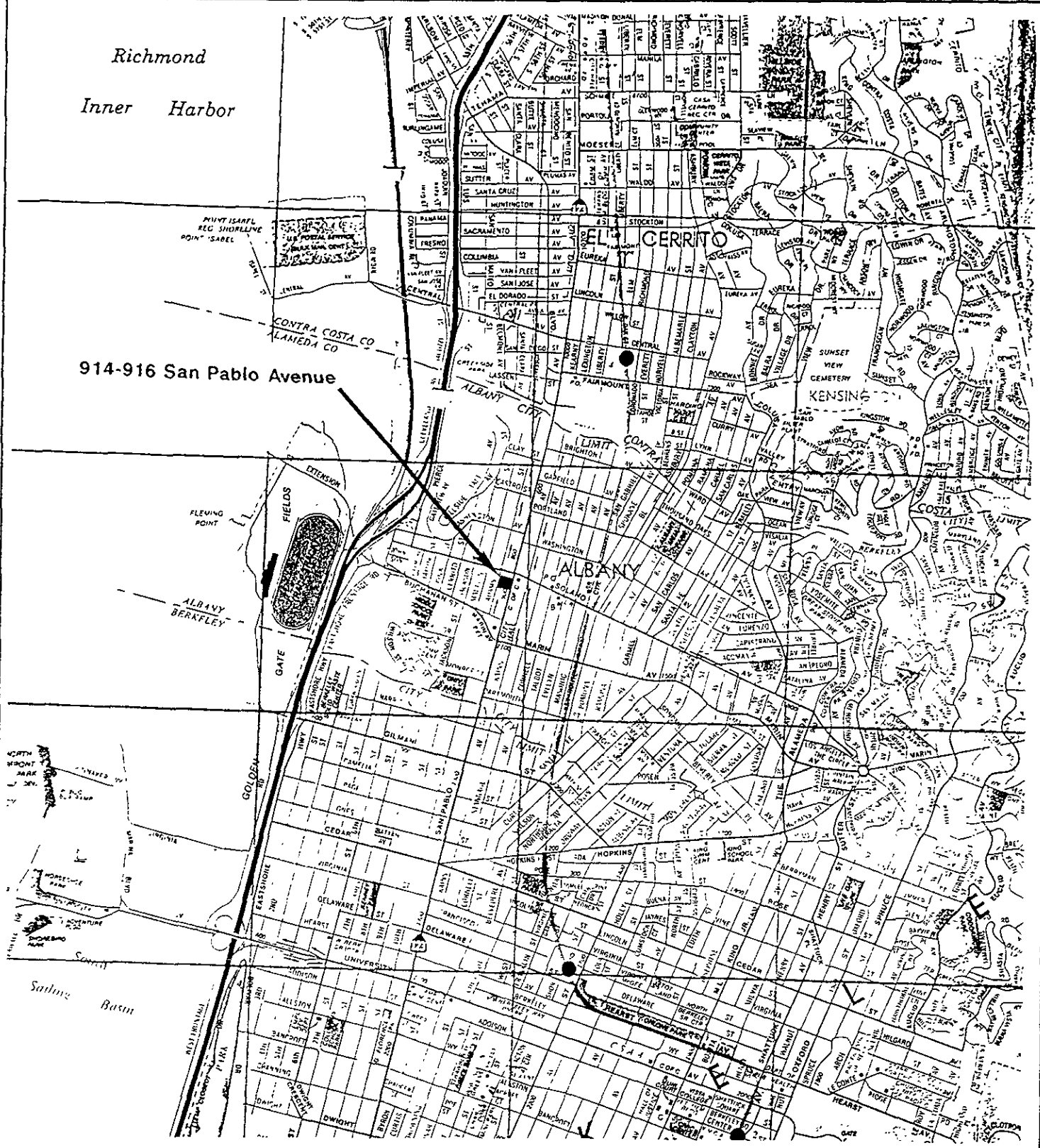
- o Based on the ASTM RBCA guidelines, the observed soil and groundwater contamination at the site does not pose a human health risk.
- o The groundwater contaminant plume appears to be fairly stable, based on the fact that the intermittent downgradient well from Well MW-1, which is Well MW-3, has not identified any contaminants above detection limits since monitoring began in 1991.
- o Soil types at the site are primarily clay to sandy clay, which will aid in restricting any future migration of the remaining groundwater contaminant plume and leaching of any soil contaminants into groundwater.
- o The levels of benzene identified in Well MW-1, which was placed in the former gasoline tank pit, have been steadily attenuating.

# FIGURES



Richmond  
Inner Harbor

914-916 San Pablo Avenue



Site Location

J. Dibble

PLATE

JOB NUMBER  
9124

DATE  
5/90

1

**ATT** Aqua Terra Technologies  
Consulting Engineers  
& Scientists

SOLANO AVENUE



Sidewalk

Other Businesses and Structures

Property Boundary

Parking

Building at  
914-916 San Pablo Avenue  
Albany, California

Former Gasoline Tank

Former Waste Oil Tank

Parking

ADAMS STREET

Sidewalk

Sidewalk

SAN PABLO AVENUE



Facility Location

J. Dibble

PLATE

**ATT**

Aqua Terra Technologies  
Consulting Engineers  
& Scientists

JOB NUMBER  
9124

DATE  
5/90

2

SOLANO AVENUE

Sidewalk

Other Businesses and Structures

Property Boundary

MW2

Parking

Building\* at

914-916 San Pablo Avenue  
Albany, California

Sidewalk

SAN PABLO AVENUE

ADAMS STREET

Sidewalk

Former Gasoline Tank

MW1

Former Waste Oil Tank

MW3

Parking

LEGEND

- ⊕ Groundwater Monitoring Well
- \* Building outline may be altered due to construction activities



Site Plan

**ATT**

Aqua Terra Technologies  
Consulting Engineers  
& Scientists

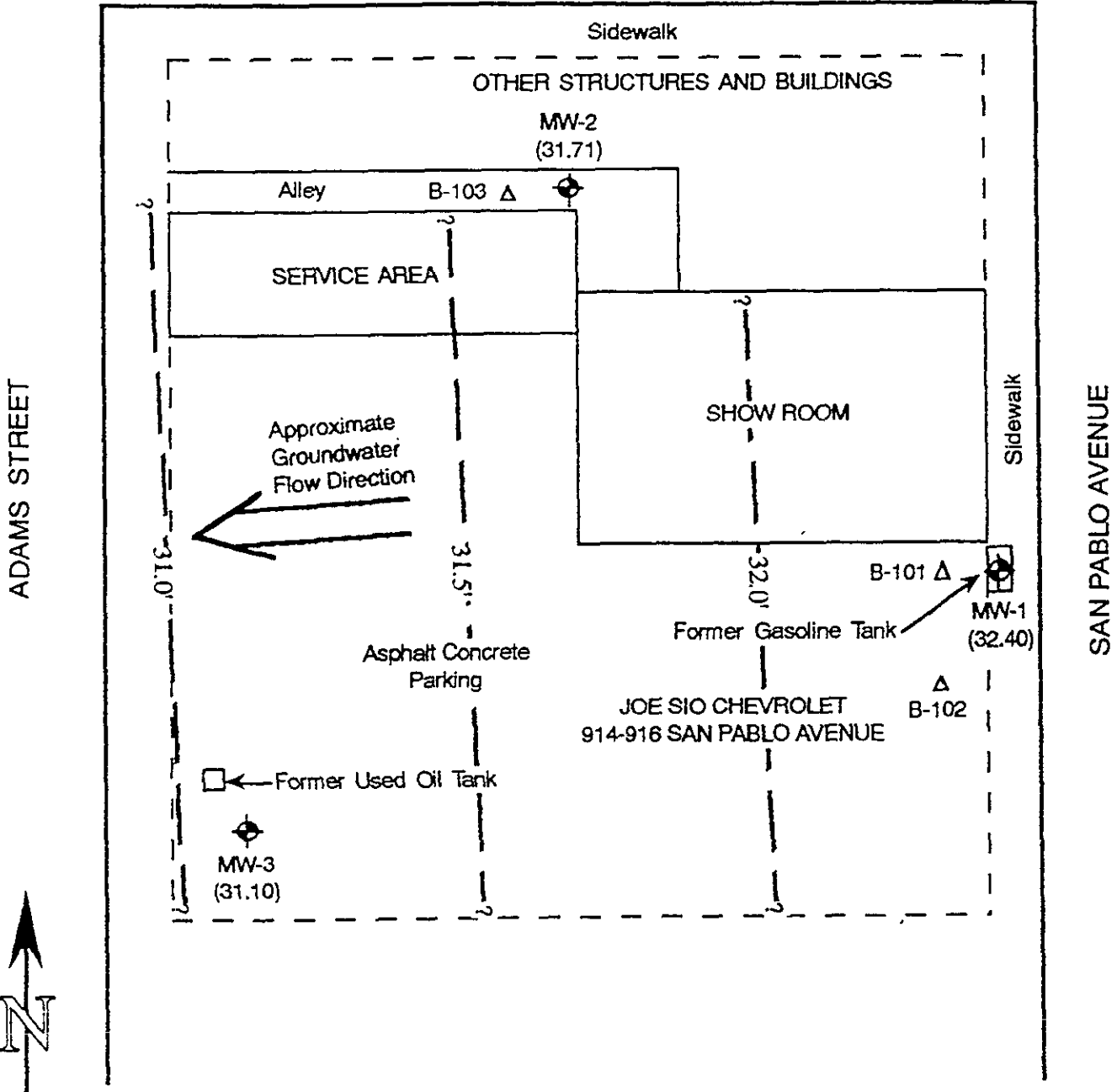
J. Dibble

PLATE

JOB NUMBER  
9124

DATE  
9/91

2



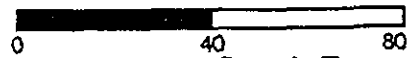
Explanation

Δ Direct-Push Sampling Location

⊕ Groundwater Monitoring Well Location

(31.10) Groundwater Elevation (feet above mean sea level)

-31.0'- Groundwater Elevation Contour, queried where unknown



Approximate Scale in Feet

Joe Sio Chevrolet  
 914-916 San Pablo Avenue  
 Albany, California

**SITE PLAN**

Project No. 04400086/04400092

FIGURE: 2

**BSK**  
 & ASSOCIATES

# TABLES



Table 1. Chemical Analyses<sup>a</sup> for Gasoline and Waste Oil Tank Excavation Soils  
914 San Pablo Avenue  
Albany, CA

Sample Identification	Sample No.	-----TPH-----			-----Hydrocarbons <sup>b</sup> -----			
		Gasoline (mg/Kg)	Waste Oil (mg/Kg)	Diesel (mg/Kg)	B	T	E	X
Gasoline Tank Excavation	H-1	1,300	NA	NA	8.6	100	41	320
Gasoline Tank Stockpile	H-4	270	NA	NA	<0.13	1.6	<0.13	22
Waste Oil Tank Excavation	H-2	ND	ND	ND	ND	0.026	ND	0.040
Waste Oil Tank Stockpile	H-3	ND	ND	ND	ND	0.009	ND	0.007

- a. Soil Sample analyses by Pace Laboratories, Inc. Novato, California
- b. TPH = total petroleum hydrocarbons  
B = benzene  
T = toluene  
E = ethylbenzene  
X = total xylenes  
NA = not analyzed  
ND = not detected

Table 1. Chemical Data Summary - Soil  
J. Dibble Property  
914 San Pablo Avenue  
Albany, California

Sample No.	Sampling Date	Sample Depth <sup>a</sup> (feet)	TPH/g <sup>b</sup> (mg/Kg) <sup>e</sup>	B <sup>c</sup>	T <sup>c</sup>	E <sup>c</sup>	X <sup>c</sup>	TOG <sup>d</sup> (mg/Kg)
				(mg/Kg)				
MW1-10	07/24/91	10	4	0.310	0.140	<0.0025	0.069	NA <sup>f</sup>
MW2-10	07/24/91	10	<1	<0.0025	<0.0025	<0.0025	<0.0025	NA
MW3-10	07/25/91	10	<1	<0.0025	<0.0025	<0.0025	<0.0025	<50

- a. Depth of sample collection below grade
- b. TPH/g = total petroleum hydrocarbons as gasoline
- c. B = benzene, T = toluene, E = ethylbenzene, X = total xylenes
- d. TOG = total oil and grease
- e. mg/Kg = milligrams per kilograms, equal to parts per million (ppm)
- f. NA = analysis not requested

**TABLE 1  
GROUNDWATER ELEVATION DATA**

Joe Sio Chevrolet  
914-916 San Pablo Avenue, Albany, California

Monitoring Well No.	Date Measured	Total Depth (ft-BTOC)	TOC Elevation (ft-MSL)	Depth to Water (ft-BTOC)	Water Elevation (ft-MSL)
MW-1	8/7/91	NM	42.61	10.49	32.12
	8/12/91	NM	42.61	10.37	32.24
	4/15/94	29.80	42.61	10.60	32.01
	7/14/94	29.70	42.61	10.55	32.06
	10/14/94	29.75	42.61	10.88	31.73
	1/17/95	29.75	42.61	9.97	32.64
	4/19/95	29.62	42.61	9.74	32.87
	7/13/95	29.79	42.61	10.31	32.30
	10/17/95	29.84	42.61	10.40	32.21
	3/28/96	29.78	42.61	10.01	32.60
	9/25/96	29.50	42.61	10.21	32.40
MW-2	8/7/91	NM	42.73	11.64	31.09
	8/12/91	NM	42.73	11.69	31.04
	4/15/94	26.88	42.73	10.16	32.57
	7/14/94	26.85	42.73	10.91	31.82
	10/14/94	26.88	42.73	12.10	30.63
	1/17/95	26.87	42.73	9.54	33.19
	4/19/95	26.71	42.73	7.99	34.74
	7/13/95	26.91	42.73	9.91	32.82
	10/17/95	26.96	42.73	11.38	31.35
	3/28/96	26.89	42.73	8.55	34.18
	9/25/96	26.60	42.73	11.02	31.71
MW-3	8/7/91	NM	39.44	8.94	30.50
	8/12/91	NM	39.44	8.94	30.50
	4/15/94	25.58	39.44	7.68	31.76
	7/14/94	25.62	39.44	8.40	31.04
	10/14/94	25.61	39.44	9.31	30.13
	1/17/95	25.79	39.44	5.44	34.00
	4/19/95	25.65	39.44	5.99	33.45
	7/13/95	25.85	39.44	7.38	32.06
	10/17/95	25.79	39.44	8.70	30.74
	3/28/96	25.86	39.44	8.11	31.33
	9/25/96	25.60	39.44	8.34	31.10

Water levels measured on 9/25/96 by BSK & Associates of Pleasanton, California. Previous water level and TOC elevation data based on Philip Environmental Services Corporation, 1996.

ft-BTOC            Feet below top of casing  
ft-MSL            Feet above mean sea level  
NM                Not measured  
TOC               Top of casing



**TABLE 2**  
**GROUNDWATER ANALYTICAL DATA**  
**Petroleum and Halogenated Hydrocarbons**

Joe Sio Chevrolet  
914-916 San Pablo Avenue, Albany, California

Monitoring Well	Date Sampled	Sample No.	TPH Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	Total Oil and Grease (ug/L)	Chloro-methane (ug/L)	Carbon Tetrachloride (ug/L)	TCE (ug/L)	cis-1,2-DCE (ug/L)	PCE (ug/L)
	EPA Analytical Method:		8015m	602	602	602	602	9070	601	601	601	601	601
<b>Groundwater Analyses:</b>													
MW-1	8/7/91	MW-1	110	16	2.0	0.7	15	-	-	-	-	-	-
	4/15/94	MW01-041594	2,500	880	22	79	47	-	-	-	-	-	-
	7/14/94	MW01-071494	470	110	22	21	87	-	-	-	-	-	-
	10/14/94	MW01-101494	380	86	17	24	77	-	-	-	-	-	-
	1/17/95	MW01-011795	600	250	11	5.3	56	-	-	-	-	-	-
	4/19/95	MW01 041995	210	69	3.7	3.7	12	-	-	-	-	-	-
	7/13/95	MW01071395	110	30	4.7	8.2	20	-	-	-	-	-	-
	10/17/95	MW01 101795	90	29	3.7	10	23	-	-	-	-	-	-
	10/17/95 d	DW01 101795	110	32	4.3	12	26	-	-	-	-	-	-
	3/28/96	MW01032896	620	180	12	35	94	-	-	-	-	-	-
	3/28/96 d	DW01032896	720	200	14	39	120	-	-	-	-	-	-
	9/25/96	MW-1	ND(<50)	6.4	ND(<0.30)	2.9	6.9	-	-	-	-	-	-
MW-2	8/7/91	MW-2	ND(<50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	-	-	-	-	-	-
	4/15/94	MW02-041494	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	-
	7/14/94	MW02-071494	ND(<50) *	ND(<0.30) *	0.73 *	ND(<0.30) *	0.71 *	-	-	-	-	-	-
	10/14/94	MW02-101494	ND(<50) *	ND(<0.30) *	ND(<0.30) *	ND(<0.30) *	ND(<0.50) *	-	-	-	-	-	-
	1/17/95	MW02-011795	ND(<50) *	ND(<0.30) *	ND(<0.30) *	ND(<0.30) *	ND(<0.50) *	-	0.94	0.98	0.58	0.51	100
	4/19/95	MW02 041995	ND(<50) *	ND(<0.30) *	ND(<0.30) *	ND(<0.30) *	ND(<0.50) *	-	ND(<0.50)	0.83	ND(<0.50)	ND(<0.50)	76
	7/13/95	MW02071395	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	ND(<0.50)	0.98	ND(<0.50)	ND(<0.50)	68
	10/17/95	MW02 101795	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	ND(<1.0)	1.1	ND(<1.0)	ND(<1.0)	60
	3/28/96	MW02032896	ND(<50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	-	ND(<1.2)	ND(<1.2)	ND(<1.2)	ND(<1.2)	58
	9/25/96	MW-2	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	ND(<0.50)	1.0	0.80	0.80	57
MW-3	8/7/91	MW-3	(<50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<5,000)	-	-	-	-	-
	4/15/94	MW03-041594	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	12
	4/15/94 d	DW01-041494	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	-
	7/14/94	MW03-071494	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	0.50	-	-	-	-	-	17
	7/14/94 d	DW01-071494	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	0.53	-	-	-	-	-	-
	10/14/94	MW03-101494	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	19
	10/14/94 d	DW01-101494	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	-
	1/17/95	MW03-011795	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	ND(<4)
	1/17/95 d	DW03-011795	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	-
	4/19/95	MW03 041995	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	9.1
	4/19/95 d	DW03 041995	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	-
	7/13/95	MW03071395	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	ND(<4)
	7/13/95 d	DW01071395	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	-
	10/17/95	MW03 101795	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	ND(<4)
	3/28/96	MW03032896	ND(<50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)	-	-	-	-	-	ND(<4)
	9/25/96	MW-2	ND(<50)	ND(<0.30)	ND(<0.30)	ND(<0.30)	ND(<0.50)	-	-	-	-	-	-



TABLE 3  
GROUNDWATER ANALYTICAL DATA  
Selected Metals

Joe Sio Chevrolet  
914-916 San Pablo Avenue, Albany, California

Monitoring Well	Date Sampled	Sample No.	Cadmium (ug/L)	Chromium (ug/L)	Lead (ug/L)	Nickel (ug/L)	Zinc (ug/L)
EPA Analytical Method:			200.8	200.8	200.8	200.7	200.7
<b>Groundwater Analyses:</b>							
MW-1	4/15/94	MW01-041594	-	-	9.3	-	-
	7/14/94	MW01-071494	-	-	5.9	-	-
	10/14/94	MW01-101494	-	-	8.0	-	-
	1/17/95	MW01-011795	-	-	9.6	-	-
	4/19/95	MW01 041995	-	-	18	-	-
	7/13/95	MW01071395	-	-	4.8	-	-
	10/17/95	MW01 101795	-	-	8.8	-	-
	3/28/96	MW01032896	-	-	12	-	-
	9/25/96	MW-1	-	-	ND(<5)	-	-
MW-2	4/15/94	MW02-041494	-	-	22	-	-
	7/14/94	MW02-071494	-	-	23	-	-
	10/14/94	MW02-101494	-	-	21	-	-
	1/17/95	MW02-011795	-	-	31	-	-
	4/19/95	MW02 041995	-	-	ND(<3)	-	-
	7/13/95	MW02071395	-	-	38	-	-
	10/17/95	MW02 101795	-	-	28	-	-
	3/28/96	MW02032896	-	-	13	-	-
	9/25/96	MW-2	-	-	ND(<5)	-	-
MW-3	4/15/94	MW03-041594	12	250	220	340	490
	7/14/94	MW03-071494	17	550	220	730	840
	10/14/94	MW03-101494	19	640	140	860	900 b
	1/17/95	MW03-011795	ND(<4)	8.8	ND(<3)	ND(<1.5)	22
	4/19/95	MW03 041995	9.1	19	68	67	1,300
	7/13/95	MW03071395	ND(<4)	12	ND(<3)	ND(<1.5)	24
	10/17/95	MW03 101795	ND(<4)	ND(<7)	ND(<3)	ND(<1.5)	ND(<10)
	3/28/96	MW03032896	ND(<4)	ND(<7)	ND(<3)	ND(<15)	56
	9/25/96	MW-3	ND(<1)	ND(<5)	ND(<5)	ND(<10)	ND(<50)
California Primary Maximum Contaminant Levels:			5	50	-	100	5,000

Results above detection limit are bolded for emphasis.  
 Samples collected on 9/25/96 by BSK & Associates of Pleasanton, California.  
 Analytical method indicated for 9/25/96 samples.  
 Previous data based on Philip Environmental Services Corporation, 1996.  
 California Primary Maximum Contaminant Levels per CCR 64431.  
 b Analyte found in method blank  
 - Not analyzed  
 EPA Environmental Protection Agency  
 ND Concentration below detection limit presented in parentheses  
 ug/L Micrograms per liter (parts per billion)

**TABLE 4  
SUPPLEMENTAL INVESTIGATION ANALYTICAL RESULTS**

Joe Sio Chevrolet  
914-916 San Pablo Avenue, Albany, California

Sampling Location	Date Sampled	Sample No.	Media	Units	Sample Depth (ft-BGS)	TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	VOCs
						Gasoline	8020/602	8020/602	8020/602	8020/602	8010/601
EPA Analytical Method:											
B-101	9/25/96	B-101-10	Soil	mg/kg	10	ND(<1.0)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	-
	9/25/96	B-101-water	Groundwater	ug/l	23.5	<b>2,300</b>	ND(<0.30)	28	70	480	-
B-102	9/25/96	B-102-10	Soil	mg/kg	10	ND(<1.0)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	-
	9/25/96	B-102-20	Soil	mg/kg	20	ND(<1.0)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	-
B-103	9/25/96	B-103-10	Soil	mg/kg	10	ND(<1.0)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<0.005)	ND(<varies)

Results above detection limit are bolded for emphasis.

Samples collected using direct-push sampling rig.

- Not analyzed
- EPA Environmental Protection Agency
- ft-BGS Feet below ground surface
- ND Concentration below detection limit presented in parentheses
- mg/kg Milligrams per kilogram (parts per million)
- ug/l Micrograms per liter (parts per billion)
- VOCs Volatile organic compounds



# BORING LOGS

AQUA TERRA TECHNOLOGIES INC.

Log of Exploratory Boring

Project: Dibble/Foley Job No.: 9124

Location: 914-916 San Pablo Ave., Albany, CA Date: 7/24/91

Boring No.: MW1 Driller: Gregg Drilling Page 1 of 2

Logged by: BB Proj. Mgr. WEM Surface Elev. :

Penetration (Blows/6")	Depth (feet)	U.S.C.S. Soil Class.	Field Description	Remarks
	0	Backfill	0'-7' Sand backfill material	
	1			
	2			
	3			
	4			
	5			
	6			
	7	CL	7'-13' Sandy clay; light olive brown (2.5Y 5/4); 10% to 30% very fine to fine sand; minor rust staining; minor blue-green aged hydrocarbon discoloring (horizontal streaks); very stiff; damp (no hydrocarbon discoloring below 13')	
	8			
	9			
9,13,15	10			
	11	CL-SC	13'-30' Sandy clay to clayey sand; yellowish brown (10YR 5/4); 10% to 70% very fine to fine sand in a clay matrix with occasional thin lenses (<6-inches) of clean fine sand; minor component of fine to medium gravel (quartz, white, dark colors, angular); little or no iron staining below 18'; damp to moist.	10' sample, slight hydrocarbon odor (no odor below 13', below 10' sampler was driven for lithologic description only)
	12			
	13			
	14			
5,7,12	15			
	16			
	17			

Penetration (Blows/ 6")	Depth (feet)	U.S.C.S. Soil Class.	MW1 Field Description	Remarks
	17			
	18			
	19	CL-		
	20	SC		
4,7,11	21			
	22			
	23			23' First water (very slow producing)
	24			
4,11,11	25			25' Material slipped out of sampler, saturated, not recovered
	26			
	27			
	28			
	29			
	30		B.O.H. @ 30'	
	31			
	32			
	33			
	34			
	35			
	36			
	37			
	38			
	39			

AQUA TERRA TECHNOLOGIES INC.

Log of Exploratory Boring

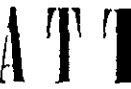
Project: Dibble/Foley Job No.: 9124

Location: 914-916 San Pablo Ave., Albany, CA Date: 7/24/91

Boring No.: MW2 Driller: Gregg Drilling Page 1 of 2

Logged by: BB Proj. Mgr. WEM Surface Elev. :

Penetration (Blows/ 6")	Depth (feet)	U.S.C.S. Soil Class.	Field Description	Remarks
	0			
	1	Asphalt Fill	0'-0.5' Asphalt and gravel base	
	2	CL	0.5'-1.5' Fill, black silty clay	
	3		1.5'-8' Sandy Clay; olive brown (2.5Y 4/4); 10% to 30% very fine sand; stiff to very stiff; damp	
	4			
	5			
	6			
	7			
	8		CL- SC	8'-28' Sandy clay to clayey sand; yellowish brown (10YR 5/4); 10% to 60% very fine to fine sand in a clay matrix with occasional thin lenses (<6-inch) of clean fine to medium sand; major iron staining; damp to moist
	9			
7,8,17	10			10' Sample (below 10', sampler was driven for lithologic description only)
	11			
	12			
	13			
	14			
	15			
4,5,11	16			
	17			



Field Drilling and Sampling Log

Job No: 9124

Page 2 of 2

Penetration (Blows/ 6")	Depth (feet)	U.S.C.S. Soil Class.	MW2 Field Description	Remarks
	17			
	18			
	19			19' First water
4, 7, 14	20	CL-SC		
	21			
	22			
	23			
	24			
	25			
	26			
	27			
	28		B.O.H. @ 28'	
	29			
	30			
	31			
	32			
	33			
	34			
	35			
	36			
	37			
	38			
	39			



AQUA TERRA TECHNOLOGIES INC.

Log of Exploratory Boring

Project: Dibble/Foley Job No.: 9124

Location: 914-916 San Pablo Ave., Albany, CA Date: 7/25/91

Boring No.: MW3 Driller: Gregg Drilling Page 1 of 2

Logged by: BB Proj. Mgr. WEM Surface Elev. : \_\_\_\_\_

Penetration (Blows/6")	Depth (feet)	U.S.C.S. Soil Class.	Field Description	Remarks
	0	Fill	0'-8' Backfill material; native soil, engineered gravel, plastic sheeting, debris (probably tank backfill)	
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8	CL	8'-14' Sandy clay; light olive brown (2.5Y 5/4); 10% to 30% very fine to fine sand; very stiff; minor iron staining (gradational increase in iron staining); damp.	10' Sample (below 10', sampler was driven for lithologic description only)
	9			
11,23,24	10			
	11			
	12	CL-SC	14'-27' Sandy clay to clayey sand; pale olive (5Y 6/3); 10% to 60% very fine to fine sand in a clay matrix with occasional thin lenses (<6-inch) of clean fine to medium sand (lenses moist to saturated);	15' First water
	13			
5,8,12	14			
	15			
	16			
	17			

Field Drilling and Sampling Log

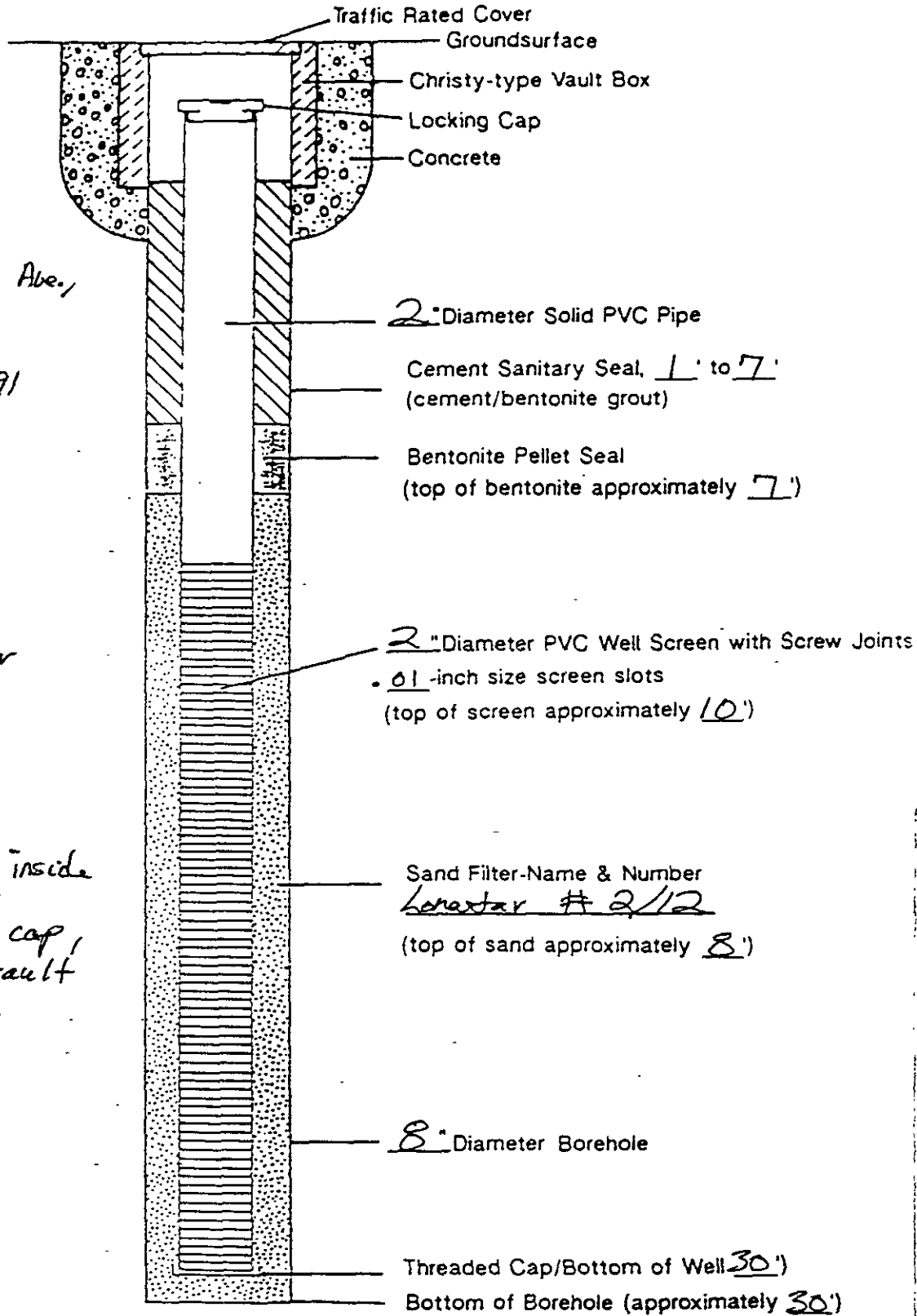
Job No: 9124

Page 2 of 2

Penetration (Blows/ 6")	Depth (feet)	U.S.C.S. Soil Class.	MW3 Field Description	Remarks
	17	CL-SC	iron staining; minor component of fine gravel (varying composition, poorly graded); moist	
	18			
	19			
	20			
8, 12, 14	21			
	22			
	23			
	24			
	25			
	26			
	27		B.O.H. @ 27'	
	28			
	29			
	30			
	31			
	32			
	33			
	34			
	35			
	36			
	37			
	38			
	39			

MW1

Well Designation:



Site Location:

914-916 San Pablo Ave.,  
Albany, CA.

Date Installed: 7-24-91

Drilling Company:

Gregg Drilling

Driller: Chris

Drilling Method:

Hollow-stem auger

Logged By: BB

Notes:

locking steel cover inside  
vault box, secures  
access to locking cap,  
steel cover and vault  
box are set in  
concrete.

Not to Scale

Groundwater Monitoring Well  
Construction Details

Dibble/Foley

PLATE

JOB NUMBER

DATE

9124

ATT

Aqua Terra Technologies  
Consulting Engineers  
& Scientists

MW2  
Well Designation:

Site Location:  
914-916 San Pablo Ave.,  
Albany, CA.

Date Installed: 7-24-91

Drilling Company:  
Gregg Drilling

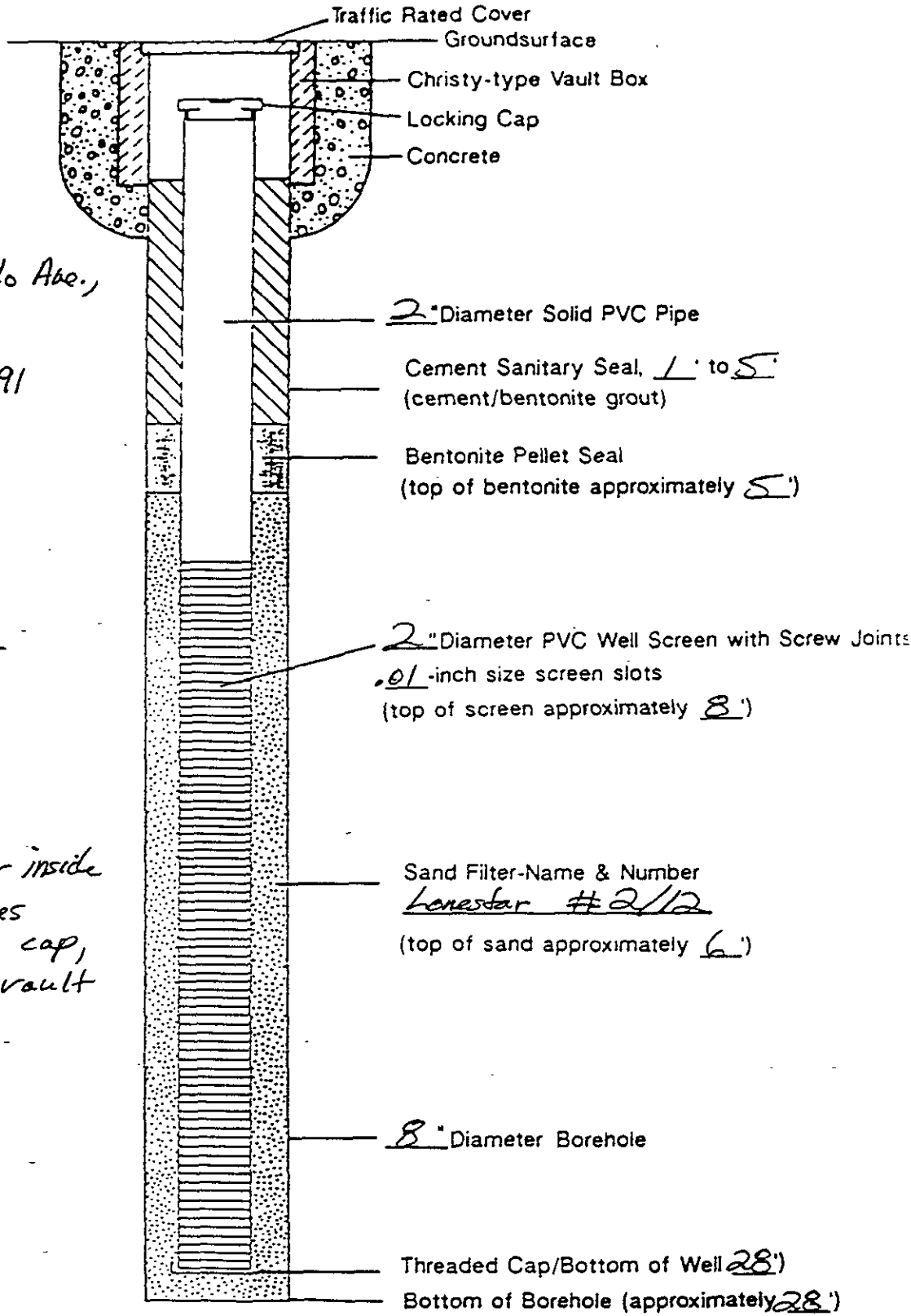
Driller: Chris

Drilling Method:  
Hollow-stem auger

Logged By: BB

Notes:

locking steel cover inside  
vault box, secures  
access to locking cap,  
steel cover and vault  
box are set in  
concrete



Not to Scale

Groundwater Monitoring Well Construction Details		PLATE
<i>Dibble / Foley</i>		
JOB NUMBER	DATE	
9124		

**ATT** Aqua Terra Technologies  
Consulting Engineers  
& Scientists

MW3

Well Designation:

Site Location:

914-916 San Pablo Ave,  
Albany, CA.

Date Installed: 7-25-91

Drilling Company:

Gregg Drilling

Driller: Chris

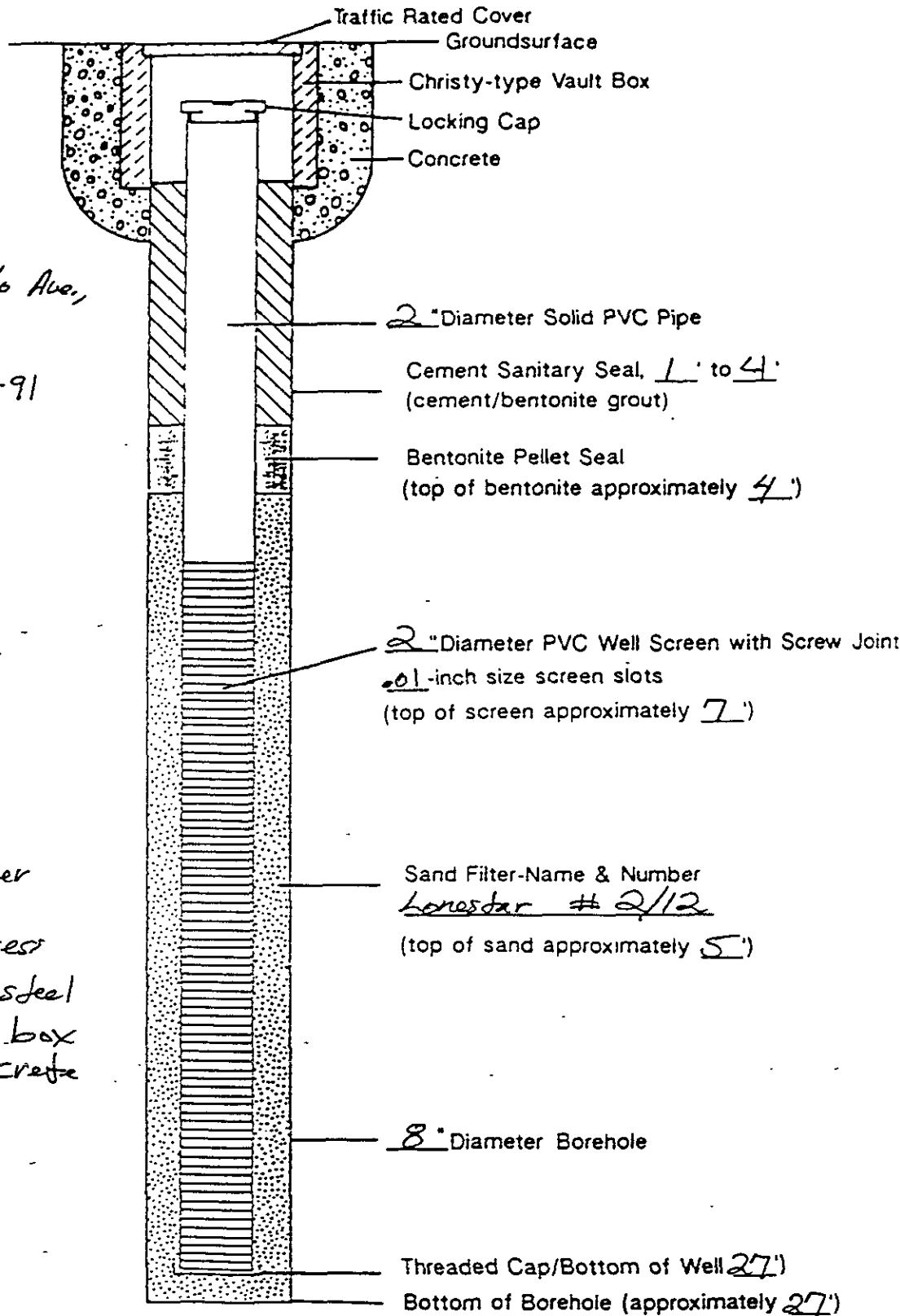
Drilling Method:

Hollow-stem auger

Logged By: B.B.

Notes:

locking steel cover  
inside vault box,  
~~steel~~ secures access  
to locking cap, steel  
cover and vault box  
are set in concrete



Not to Scale

Groundwater Monitoring Well  
Construction Details

ATT

Aqua Terra Technologies  
Consulting Engineers  
& Scientists

Dibble / Foley

JOB NUMBER

DATE

9124

PLATE

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION (LOP)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

February 14, 1997

Ms. Florence Ann Connors  
1658 Del Dayo Dr.  
Carmichael, CA 95608

Re: Joe Sio Chevrolet, 914 San Pablo Avenue, Albany, CA 94706  
[STID 3808]

Dear Ms. Connors,

This letter confirms the completion of site investigation and remedial action for the two underground storage tanks formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated. Enclosed is the Case Closure Summary for the referenced site for your records.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

  
Mee Ling Tung  
Director of Environmental Health Services

Attachment

c: Acting Chief, Hazardous Materials Division - files  
Juliet Shin, ACDEH  
Kevin Graves, RWQCB  
Lori Casias, SWRCB (w/ enclosure)  
Cheryl Gordon, SWRCB Cleanup Fund