

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Alameda County CC4580
Environmental Health Services
1131 Harbor Bay Pkwy., #250
Alameda CA 94502-6577
(510)567-6700 FAX(510)337-9335

August 2, 1996

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Keith Rutledge
Alternative Investments
P.O. Box 94
Willits, California 95490

RE: Former Exxon Service Station
5829 Adeline Street, Oakland, California 94608
STID # 4253

Dear Mr. Rutledge:

This letter confirms the completion of site investigation and remedial action for the three underground storage tanks (1 - 10,000 gallon gasoline, 1 - 8,000 gallon gasoline and 1 - 3,300 gallon gasoline) removed on November 22, 1991 at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the three gasoline underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e). If a change in the present land use is proposed, the property owner must promptly notify this agency.

Please contact Susan L. Hugo at (510) 567-6780 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

Enclosure

c: Gordon Coleman, Acting Chief, Environmental Protection - files
Kevin Graves, RWQCB
Lori Casias, SWRCB (with enclosure)
Thomas Cundey, SCI, 171 12th St., Suite 201, Oakland, CA 94607
DAVE DEANER, SWRCB CLEAN UP FUND PROGRAM

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

May 1, 1996

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

STID # 4253

Mr. Keith Rutledge
Alternative Investments
P.O. Box 94
Willits, California 95490

**RE: Case Closure - Former Exxon Service Station
5829 Adeline Street, Oakland, California 94608**

Dear Mr. Rutledge:

The Alameda County Department of Environmental Health, Environmental Protection Division has recently received concurrence from the Regional Water Quality Control Board regarding this office determination that no further action is required concerning the removal of three underground storage tanks (1- 10,000 gallon gasoline, 1- 8,000 gallon gasoline and 1- 3,300 gallon gasoline) at the above referenced site.

Please be advised that the groundwater monitoring well (MW-1), two piezometers (P-1 and P-2) and the abandoned irrigation well at the site must be properly decommissioned before our agency will issue the **Remedial Action Completion Certification** (closure letter) for the subject site. A report must be submitted documenting the abandonment of the monitoring well, piezometers and irrigation well.

Additionally, you will need to notify this office 72 hours in advance of the well abandonment field activities.

If you have any questions concerning this letter, please contact me at (510) 567- 6780.

Sincerely,

Susan L. Hugo
Senior Hazardous Materials Specialist

c: Mee Ling Tung, Director, Environmental Health
Gordon Coleman, Acting Chief, Environmental Protection / files
Kevin Graves, San Francisco Bay RWQCB
Thomas Cundy, SCI, 171- 12th St., Suite 201, Oakland, CA 94607

01-1239
ROSS

ENVIRONMENTAL
PROTECTION

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

06 MAY 1991 PM 2:00

I. AGENCY INFORMATION Date: March 5, 1996
Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Susan Hugo Title: Sr. Hazardous Materials Spec.

II. CASE INFORMATION
Site facility name: Former Exxon Service Station
Site facility address: 5829 Adeline Street, Oakland CA 94608
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4253
URF filing date: 12/3/91 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:
Alternative Investments P.O. Box 94 (707) 459-5533
c/o Mr. Keith Rutledge Willits, CA 95490

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	10,000 gallon	Gasoline	Removed	11/22/91
2	8,000 gallon	Gasoline	Removed	11/22/91
3	3,300 gallon	Gasoline	Removed	11/22/91

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown, probably from overfilling the USTs
Site characterization complete? YES
Date approved by oversight agency: 11/3/93
Monitoring Wells installed? YES Number: One (1) in addition to two piezometers
Proper screened interval? YES
Highest GW depth below ground surface: 1.93 feet Lowest depth: 5.99 feet
Flow direction: Southwesterly
Most sensitive current use: Unknown, but land use in the area are mixed residential / commercial,
Are drinking water wells affected? NO Aquifer name: NA
Is surface water affected? NO Nearest affected SW name: NA
Off-site beneficial use impacts (addresses/locations): NA
Report(s) on file? YES Where is report(s) filed? Alameda County
1131 Harbor Bay Parkway, Alameda, CA 94502-6577

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment of Disposal w/destination)</u>	<u>Date</u>
Tank	1 - 3,300 gal	Erickson, Richmond, CA	11/22/91
	1 - 8,000 gal	Erickson, Richmond, CA	11/22/91
	1 - 10,000 gal	Erickson, Richmond, CA	11/22/91

Leaking Underground Fuel Storage Tank Program

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment of Disposal w/ destination)</u>	<u>Date</u>
Soil	136 yards Unknown	Aerated and reused at the site West Contra Costa Landfill Richmond, CA	6/3/92
Rinsate Water	900 gallons	DRG Refinery Services Patterson, CA	11/23/91
Product/water	5,000 gallons	Gibson Oil & Refining Co. Redwood City, CA	11/13/91
Groundwater	2,500 gallons	Discharge into storm drain with approval from RWQCB	3/92

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before</u>	<u>After</u>	<u>*** Before</u>	<u>After</u>
TPH (Gasoline)	* 78	ND	5,000	61
TPH (Diesel)	** ND	2	-	270
Benzene	* ND	ND	78	ND
Toluene	* 0.083	ND	3.1	ND
Xylene	* 0.39	ND	170	ND
Ethylbenzene	* 0.088	ND	180	ND
Total Lead	** 1.68	-	-	-

* Soil sample (SS#6) collected from the tank excavation #2 (common pit for the 8,000 gallon and 10,000 gallon USTs) at the soil/water interface (see Plate 1).

** Soil sample (SS#1) collected from the tank excavation #1 (3300 gal UST) soil/water interface (see Plate 1).

*** Grab water sample collected from tank excavation #1 (3300 gal UST).

Comments (Depth of Remediation, etc.):

On November 22, 1991, three gasoline USTs (1-10,000 gallon and 1-8,000 gallon in a common pit & 1-3,300 gallon in a separate excavation) were removed from the subject site. Prior to the UST removals, approximately 5,000 gallon of gasoline contaminated water was pumped out of the 10,000 gallon UST and was disposed off site. Water sample (GS-1) collected from the contaminated water found 11,000 ppm TPH gasoline.

Following the UST removals, six soil samples were obtained from the two excavations at depths close to the soil/water interface. Low levels of petroleum hydrocarbon contamination were detected in the soil at concentration listed as "before cleanup" in the above table. In addition, grab water samples were collected from each excavation. The grab water sample from the common excavation (Tank Pit #2) found no detectable level of TPH gasoline and BTEX. However, the grab water sample from the smaller excavation (Tank Pit #1) found contamination listed in the above table.

Leaking Underground Fuel Storage Tank Program

Additional soil was excavated on 1/7/92 in the northwest and southeast corner of tank pit #2 (common pit) to remove the remaining residual soil contamination (78 ppm and 23 ppm). Confirmation soil samples (NW-1 & SE-2) did not detected any TPH gasoline or BTEX. Stockpiled soil (approx. 120 yds) from tank pit #2 was characterized (six composite soil samples collected), analyzed (nd for TPH gasoline and BTEX) and reused as backfill on site. The 16 yards of soil from the tank pit #1 contained low levels of benzene (13 ppm), toluene (14 ppm), ethyl benzene (6.3 ppm) and xylene (50 ppm) and was aerated, sampled and reused on site. Both excavations were dewatered prior to backfilling and approximately 2,500 gallons of water were generated and disposed into the storm drain with authorization from the SF Bay RWQCB.

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? **YES**
Monitoring wells Decommissioned: **No, will decommission upon case closure**
Number Decommissioned: **NA** Number Retained: **One (1) well, two (2) piezometers, & one (1) irrigation well.**

List enforcement actions taken: **NA**
List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Susan L. Hugo** Title: **Sr. Hazardous Materials Specialist**

Signature: *Susan L. Hugo* Date: *4/17/96*

Reviewed by

Name: **Thomas Peacock** Title: **Manager, LOP**

Signature: *Thomas Peacock* Date: *4-17-96*

Name: **Barney Chan** Title: **Hazardous Materials Specialist**

Signature: *Barney Chan* Date: *4/17/96*

Leaking Underground Fuel storage Tank Program

VI. RWQCB NOTIFICATION

Date Submitted to RB: 4/17/96

RB Response: *Approved*

RWQCB Staff Name: Kevin Graves

Title: Water Resources Control Engineer



Date: 4/26/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

On July 20, 1994, one groundwater monitoring well (MW-1) and two piezometers (P-1 & P-2) were installed at the site. The two piezometers were used to confirm flow direction and gradient. Monitoring MW-1 was confirmed as being downgradient to the former tanks. In addition, the site has a domestic well (installed in 1980, about 25 feet deep with a surface seal extending about 20 feet deep) located in the southwest corner of the property which was used for irrigation.

Soil sample collected from boring MW-1 at 9.5 feet bgs found 2 ppm TPH diesel and non detect for TPH gasoline and BTEX. Initial sampling of MW-1 did not detect any concentration of TPH gasoline, TPH diesel or BTEX. The well was sampled from 7/94 to 11/95 (seven events). Benzene was detected one time at 8.8 ppb during the sampling event conducted in 5/95. Overall, only low levels of petroleum hydrocarbon were detected in the groundwater at the following concentrations: nd - 1,400 ppb TPH gasoline, nd - 380 ppb TPH diesel, nd - 46 ppb ethyl benzene and nd - 2.7 ppb xylene. Piezometer P-1 was sampled one time (8/17/95) and the results showed nd for TPH gasoline, TPH diesel and BTEX.

The rationale for recommending case closure for the subject site are as follows:

- 1) Benzene was detected during one sampling event (5/95) at a very low concentration (8.8 ppb).
- 2) Benzene was not detected in any of the soil samples collected at the site.
- 3) Aggressive source removal has been conducted at the site. Very low levels of TPH diesel (2 ppm) in soil remain at the site.
- 4) The groundwater plume appears to be stable. The last sampling event (11/95) found low levels of TPH gasoline (61 ppb) and TPH diesel (270 ppb) but nd for BTEX.
- 5) The site presents no significant risk to human health and the environment.

Leaking Underground Fuel Storage Tank Program

Additional soil was excavated on 1/7/92 in the northwest and southeast corner of tank pit #2 (common pit) to remove the remaining residual soil contamination (78 ppm and 23 ppm). Confirmation soil samples (NW-1 & SE-2) did not detect any TPH gasoline or BTEX. Stockpiled soil (approx. 120 yds) from tank pit #2 was characterized (six composite soil samples collected), analyzed (nd for TPH gasoline and BTEX) and reused as backfill on site. The 16 yards of soil from the tank pit #1 contained low levels of benzene (13 ppm), toluene (14 ppm), ethyl benzene (6.3 ppm) and xylene (50 ppm) and was aerated, sampled and reused on site. Both excavations were dewatered prior to backfilling and approximately 2,500 gallons of water were generated and disposed into the storm drain with authorization from the SF Bay RWQCB.

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? **YES**
Monitoring wells Decommissioned: **No, will decommission upon case closure**
Number Decommissioned: **NA** Number Retained: **One (1) well, two (2) piezometers, & one (1) irrigation well.**

List enforcement actions taken: **NA**
List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Susan L. Hugo** Title: **Sr. Hazardous Materials Specialist**

Signature: *Susan L. Hugo* Date: **4/17/96**

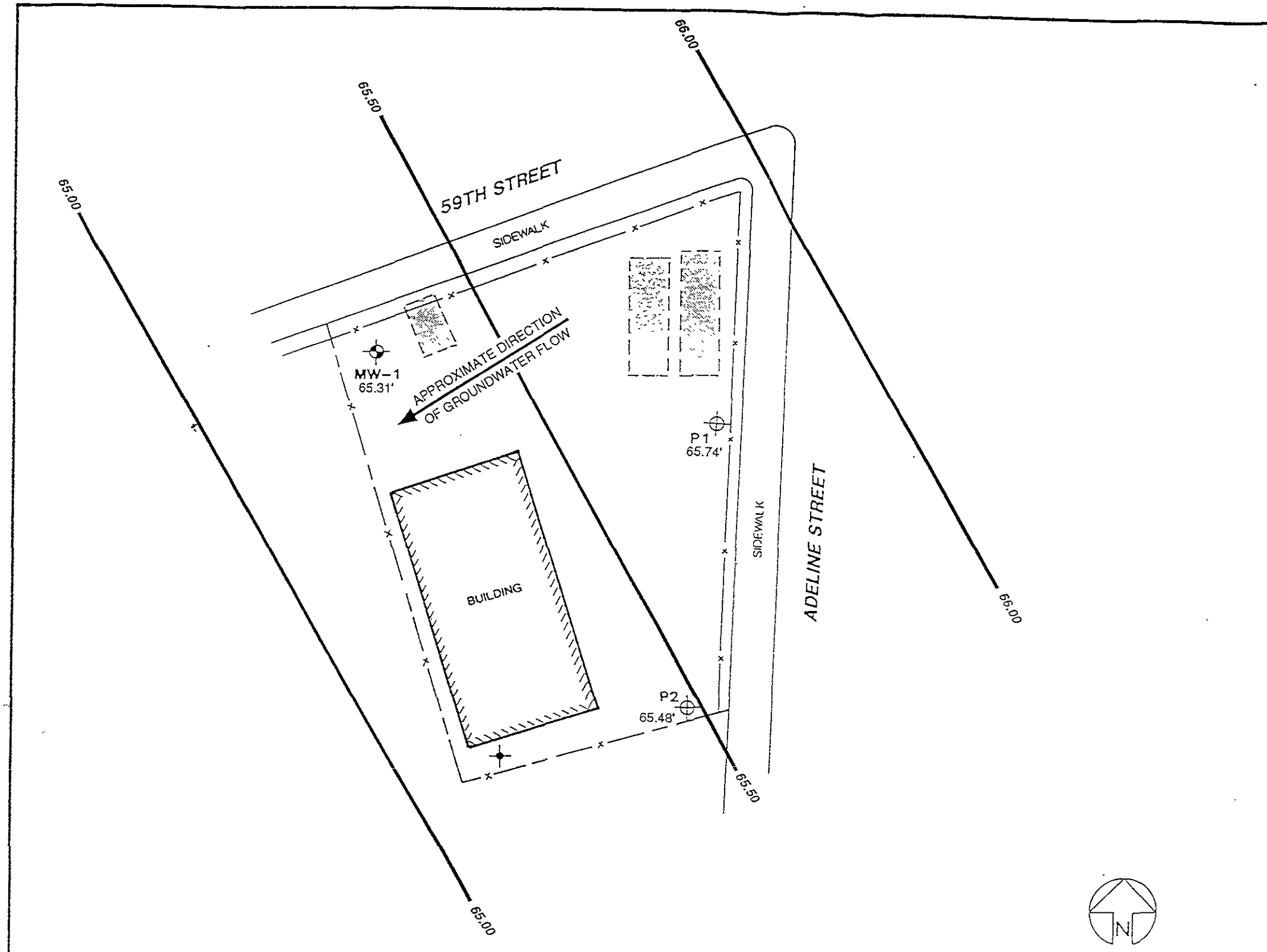
Reviewed by

Name: **Thomas Peacock** Title: **Manager, LOP**

Signature: *Thomas Peacock* Date: **4-17-96**

Name: **Barney Chan** Title: **Hazardous Materials Specialist**

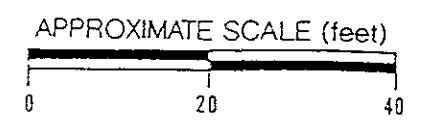
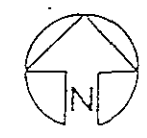
Signature: *Barney Chan* Date: **4/17/96**



VICINITY MAP

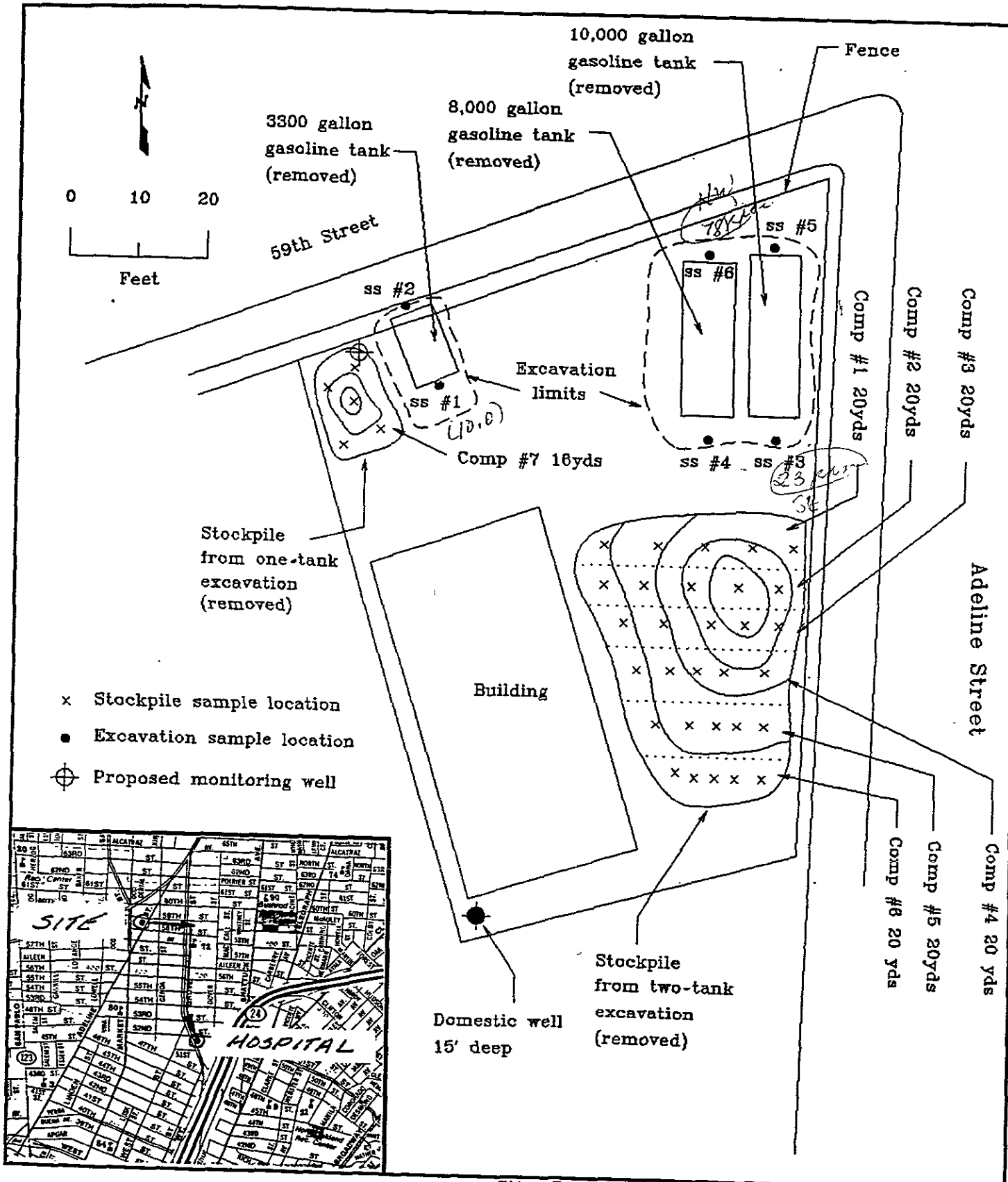
	MONITORING WELL
	PIEZOMETER
	DOMESTIC WELL
	APPROXIMATE FORMER TANK EXCAVATION LOCATION
	FENCE
	GROUNDWATER ELEVATION CONTOUR

NOTE: GROUNDWATER ELEVATIONS ARE REFERENCED TO CITY OF OAKLAND MONUMENT 1978, LOCATED AT 58TH STREET AND ADELINE STREET, ELEVATION 69.45'.



Subsurface Consultants

SITE PLAN			PLATE 1
5829 ADELINE STREET - OAKLAND, CA			
JOB NUMBER 925.001	DATE 12/5/95	APPROVED <i>TC</i>	



TRANS TECH CONSULTANTS
 ENVIRONMENTAL AND GEOTECHNICAL SERVICES

Site Plan and Location Map
 Route to Hospital
 5829 Adeline Street
 Oakland, California

PLATE
 1

DRAWN
 BSK

JOB NUMBER
 1233.01.01

APPROVED
 DGM

DATE
 1/13/95

0101s.pl

CHROMALAB, INC.

5 DAYS TURNAROUND

Analytical Laboratory (E894)

January 15, 1992

ChromaLab File No.: 0192053

GEN-TECH ENVIRONMENTAL

Attn: Cheryl Trillo

RE: Two soil samples for Gasoline/BTEX analysis

Project Name: ADELINE & 59TH ST., OAKLAND, CA

Project Number: 9181

Date Sampled: Jan. 7, 1992

Date Submitted: Jan. 8, 1992

Date Extracted: Jan. 14, 1992

Date Analyzed: Jan. 14, 1992

RESULTS:

Sample I.D.	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
NW-1	N.D.	N.D.	N.D.	N.D.	N.D.
SE-2	N.D.	N.D.	N.D.	N.D.	N.D.

BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	91%	85%	86%	89%	89%
DETECTION LIMIT	1.0	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS	5030/8015	8020	8020	8020	8020

ChromaLab, Inc.

Mary Cappelli

Mary Cappelli
Analytical Chemist

Eric Tam

Eric Tam
Laboratory Director

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

December 16, 1991

ChromaLab File No.: 1291057

GEN-TECH ENVIRONMENTAL

Attn: Cheryl Trillo

RE: Seven soil samples for Gasoline/BTEX analysis

Project Name: RUTLEDGE

Project Location: 5829 Adeline, Oakland

Project Number: 9161

Date Sampled: Dec. 4, 1991

Date Submitted: Dec. 6, 1991

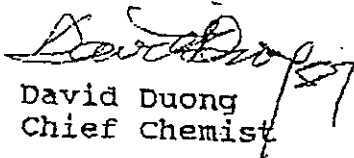
Date Extracted: Dec. 12, 1991

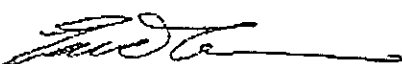
Date Analyzed: Dec. 13, 1991

RESULTS:

Sample I.D.	Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
CMP-1	N.D.	N.D.	N.D.	N.D.	N.D.
CMP-2	N.D.	N.D.	N.D.	N.D.	N.D.
CMP-3	N.D.	N.D.	N.D.	N.D.	N.D.
CMP-4	N.D.	N.D.	N.D.	N.D.	N.D.
CMP-5	N.D.	N.D.	N.D.	N.D.	N.D.
CMP-6	N.D.	N.D.	N.D.	N.D.	N.D.
CMP-7	N.D.	13	14	6.3	50
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	92.7%	90.9%	88.3%	86.3%	86.7%
DUP. SPIKE RECOVERY	89.5%	98.0%	97.0%	94.6%	93.6%
DETECTION LIMIT	1.0	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS	5030/8015	8020	8020	8020	8020

ChromaLab, Inc.


David Duong
Chief Chemist


Eric Tam
Laboratory Director

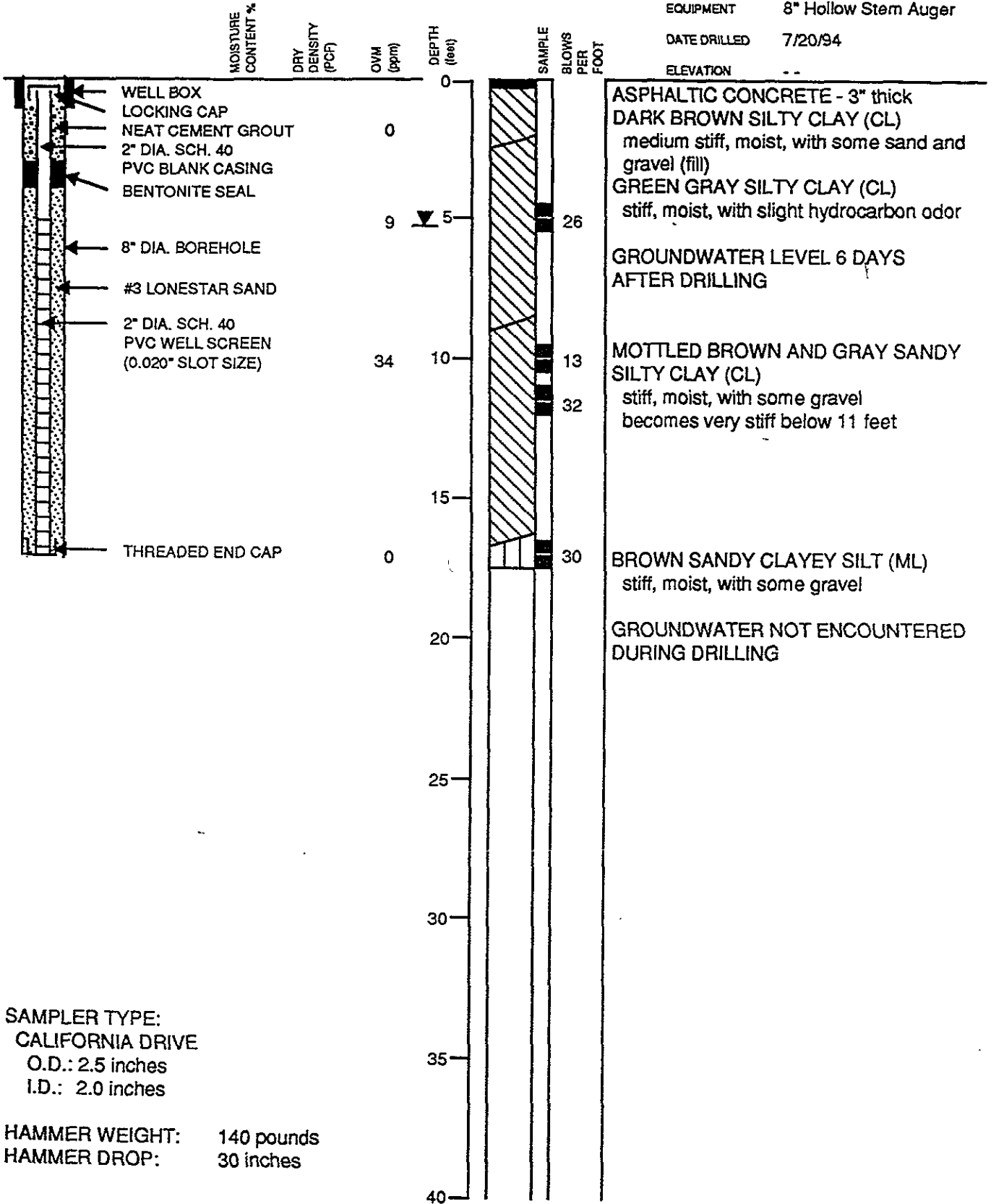
2239 Omega Road, #1 • San Ramon, California 94583

510/831-1788 • Facsimile 510/831-8798

Federal ID #68-0140157

LOG OF TEST BORING 1

EQUIPMENT 8" Hollow Stem Auger
 DATE DRILLED 7/20/94
 ELEVATION --



Subsurface Consultants

5829 ADELIN STREET - OAKLAND, CA

PLATE

JOB NUMBER
925.001

DATE
8/9/94

APPROVED
lc

2

Table 2
Hydrocarbon Concentration in Soil

<u>Sample @ Depth</u>	<u>TVH as gasoline (mg/kg)</u>	<u>TEH as diesel (mg/kg)</u>	<u>Benzene (ug/kg)</u>	<u>Toluene (ug/kg)</u>	<u>Ethyl- benzene (ug/kg)</u>	<u>Total xylenes (ug/kg)</u>
MW-1 @ 9.5'	<1	2	<5	<5	<5	<5

Table 3
Hydrocarbon Concentration in Groundwater

<u>Well</u>	<u>Date</u>	<u>TVH as gasoline (ug/l)</u>	<u>TEH as diesel (ug/l)</u>	<u>Benzene (ug/l)</u>	<u>Toluene (ug/l)</u>	<u>benzene (ug/l)</u>	<u>Ethyl-Total xylenes (ug/l)</u>
MW-1	07/26/94	<50	<50	<5	<5	<5	<5

Table 2
Hydrocarbon Concentrations in Groundwater

<u>Well</u>	<u>Date</u>	<u>TVH</u> as gasoline (<u>µg/l</u>)	<u>TEH</u> as diesel (<u>µg/l</u>)	<u>Benzene</u> (<u>µg/l</u>)	<u>Toluene</u> (<u>µg/l</u>)	<u>Ethyl-</u> <u>benzene</u> (<u>µg/l</u>)	<u>Total</u> <u>xylenes</u> (<u>µg/l</u>)
MW-1	7/26/94	<50	<50	<0.5	<0.5	<0.5	<0.5
	10/21/94	110	<50	<0.5	<0.5	3.0	<0.5
	11/23/94	<50	--	<0.5	<0.5	<0.5	<0.5
	1/24/95	890	330*	<0.5	<0.5	22	2.2
	5/8/95	1,400	380*	8.8	<0.5	23	2.4
	8/11/95	1,300	<50	<0.5	<0.5	46	2.7
	11/8/95	61	270*	<0.5	<0.5	<0.5	<0.5
P-1	8/17/95**	<50	<50	<0.5	<0.5	<0.5	<0.5
	11/8/95	--	--	--	--	--	--

TVH = Total volatile hydrocarbons

TEH = Total extractable hydrocarbons

* Sample chromatogram does not resemble the diesel standard

** Groundwater for TEH as diesel sampled 9/19/95

-- = Not tested

Table 1
Groundwater Elevation Data

<u>Well</u>	<u>TOC¹ Elevation² (feet, MSL)</u>	<u>Date</u>	<u>Depth to Groundwater (feet)</u>	<u>Groundwater Elevation (feet)</u>
MW-1	70.38	7/26/94	4.91	65.47
		8/25/94	4.98	65.40
		9/26/94	5.10	65.28
		10/21/94	5.15	65.23
		11/23/94	4.21	66.17
		1/24/95	3.93	66.45
		5/8/95	3.66	66.72
		8/11/95	4.82	65.56
		11/8/95	5.07	65.31
		P-1	71.10	7/26/94
8/25/94	5.18			65.92
9/26/94	5.29			65.81
10/21/94	5.35			65.75
11/23/94	3.73			67.37
1/24/95	1.93			69.17
5/8/95	3.92			67.18
8/11/95	4.98			66.12
11/8/95	5.36			65.74
P-2	71.42			7/26/94
		8/25/94	5.78	65.64
		9/26/94	5.78	65.64
		10/21/94	5.99	65.43
		11/23/94	4.73	66.69
		1/24/95	3.70	67.72
		5/8/95	4.85	66.57
		8/11/95	5.65	65.77
		11/8/95	5.94	65.48

¹TOC = top of casing

²Based on 7/26/94 Survey. Reference Datum: City of Oakland Monument (1978) located at the intersection of 58th and Adeline Streets, Elevation 69.465 MSL.

	TPH as	TPH as	Lead	B	E	T	X
	Gasoline	Diesel					
	mg/Kg		μg/Kg				
SS #1	10	<1	1.68	<5	33	9.5	67
SS #2	2.1	<1	1.55	<5	5.3	<5	6.4
SS #3	23	--	--	<5	28	6.9	170
SS #4	6.5	--	--	<5	<5	<5	75
SS #5	10	--	--	<5	20	24	87
SS #6	78	--	--	<5	88	83	390

	mg/L		μg/L				
GS-1 (from 10,000 gal tank)	11000	--	<100	--	--	--	--
VOAS #1	5	--	--	78	180	3.1	170
VOAS #2	<50	--	--	<0.5	<0.5	<0.5	<0.5

<1 : Less than the indicated laboratory reporting limit.

-- : Not analyzed