HEALTH CARE SERVICES

AGENCY





February 23, 1998 StID# 4269

LOP File

Mr. John Prall Port of Oakland 530 Water St. Oakland CA 94607 ENVIRONMENTAL HEALTH SERVICES **ENVIRONMENTAL PROTECTION (LOP)** 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

RE: Fuel Leak Site Case Closure Former Marriot Courtyard Site 265 Hegenberger Rd., Oakland CA 94621

Dear Mr. Prall:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with the Health and Safety Code, Chapter 6.75 (Article 4, Section 25299.37 h). The State Water Resources Control Board adopted this letter on February 20, As of March 1, 1997, the Alameda County Health Services, Local Oversight Program (LOP) is required to use this case closure letter. We are also enclosing the case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site.

Site Investigation and Cleanup Summary:

Please be advised that the following conditions exist at the site:

* 19 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline (TPHg), 28 ppm total petroleum hydrocarbons as diesel (TPHd) and 240 ppm oil and grease remain in the soil at the site.

Three monitoring wells were not able to be located and properly closed; MW-2, MO-W1 and MO-W2. Caution should be taken if subsurface work is done in the area of these wells.

This site should be included in the City's permit tracking system. Please contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan,

Hazardous Materials Specialist

enclosures: Case Closure Letter, Case Closure Summary

c: Mr. L. Griffin, City of Oakland OES, 505 14th St., Suite 702, Oakland CA 94612

B. Chan, files (letter only)

trlt265

HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



February 20, 1998 StID # 4269

REMEDIAL ACTION COMPLETION CERTIFICATION

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

Mr. John Prall Port of Oakland 530 Water St. Oakland, CA 94607

RE: Former Mariott Courtyard Site, 265 Hegenberger Rd., Oakland CA 94621

Dear Mr. Prall:

This letter confirms the completion of site investigation and remedial action for the one 1,000 gallon fuel and the one 2,000 gallon gasoline underground tanks removed from 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 tank is greatly appreciated.

Based upon the available information and with provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank releases is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations.

Please contact Barney Chan at (510) 567-6765 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung

Director, Environmental Health

c: B. Chan, Hazardous Materials Division-files Stephen Hill, RWOCB

Mr. Dave Deaner, SWRCB Cleanup Fund

Mr. Leroy Griffin, City of Oakland OES, 505 14th St., Suite 702, Oakland CA 94612

RACC265

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION Date: September 16, 1997

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Parkway

Rm 250, Alameda CA 94502

City/State/Zip: Alameda Phone: (510) 567-6700

Responsible staff person: Barney Chan Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Marriot Courtyard Site

Site facility address: 265 Hegenberger Rd., Oakland CA 94621

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4269

ULR filing date: Not filed SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

1. Port of Oakland 530 Water St. (510) 272-1538

c/o Mr. John Prall Oakland CA 94607

Tank Size in Contents: Closed in-place Date: gal.: No: or removed?: 1 1,000 fuel Removed 12/12/89 2 2,000 gasoline Removed 1/9/90

III RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: unknown

Site characterization complete? Yes

Date approved by oversight agency:

Monitoring Wells installed? Yes Number: 6

Proper screened interval? Yes, approximately 5-15' or depth of well

Page 1 of 5

Leaking Underground Fuel Storage Program

Highest GW depth: 4.42' Lowest depth: 9.71'

Flow direction: generally southerly

Most sensitive current use: commercial/industrial, site is currently vacant

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)? Alameda County

1131 Harbor Bay Parkway,

Room 250, Alameda CA 94502-6577

Treatment and Disposal of Affected Material:

<u>Material</u>	Amount (include units)	Action (Treatment of Disposal w/destination)	<u>Date</u>
Tanks & Piping	1-1,000 gallon 1-2,000 gallon	Assumed disposed by H&H, San Francisco	12/12/89 1/9/90
Soil	152 tons	Disposed to Gibson Oil	1/91
Sludge from	sump 110 gallon	Disposed at Recycling Resource, Phoenix, AZ	2/16/94
Barrels	6 barrels	Disposed, Laidlaw Env.	12/93

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil	(ppm)	Water	(ppb)
	<u>Before^l</u>	After ²	<u>Before³</u>	After4
TPH (gasoline)	2000	19	1500	ND
TPH (Diesel)	7100	28	36,000	ND
Benzene	ND	ND	11	ND
Toluene	ND	ND	5	ND
Ethylbenzene	1.0	ND	21	ND
Xylenes	4.0	ND	51	ND
Oil and Grease	2200	240	10,000	ND
Others: VOCs			·	ND
Pesticides & Pe	CBs			ND
Semi-volatiles	(bis(2-et	hylhexyl	phthalate)	22
Lead, chromium		- -	-	4,15.4

Leaking Underground Fuel Storage Tank Program

Comments (Depth of Remediation, etc.):

- 1 Initial soil samples T-1-1 from tank T-1 and S-1 from tank T-2
- 2 Overexcavation samples E5 and T-2-8-8
- 3 Grab groundwater samples; SW from tank T-1 and SW-2-A-1 from tank T-2
- 4 Groundwater sampling results from MW-4

IV. CLOSURE

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

Does corrective action protect public health for current land use?

Site management requirements: Should any monitoring wells be unable to be located, deed notice should mention the relative location of the well and minimize groundwater infiltration to this area.

Should corrective action be reviewed if land use changes? Yes

Monitoring wells Decommisioned: No

Number Decommisioned: 0

Number Retained: 6

List enforcement actions taken: None

List enforcement actions rescinded: N A

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney M. Chan

Title: Hazardous Materials Specialist

Signature:

Baines allha

Date: 10/1/97

Reviewed by

Name: Tom Peacock

Title: Manager

Signature: //

Date: 9-1-3-97

Name: Eva Chu

Title: Hazardous Materials Specialist

Signature:

Date: 9/17/97

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response:

RWQCB Staff Name: K. Graves Title: AWRCE

Date:

Page 3 of 5 /6-17-97

Leaking Underground Fuel Storage Tank Program

VII. ADDITIONAL COMMENTS, DATA, ETC.

This site was initially considered as the site for a Marriot Hotel, thus the site name, Marriot Courtyard.

June 1989- A Phase II environmental site assessment was performed by the Earth Technology Corporation to identify potential problem areas at this site. The report identified the following:

- 1. One underground tank, KF-01, on the south side of site;
- 2. A former drum storage area in the northwest corner;
- 3. Transformers and an oil-grease trap inside the building; and
- 4. A decommissioned oil pipeline running across the northwest boundary of the property.

Based upon these observations, three borings were advanced and converted into monitoring wells; MO-W1 through MO-W3. Borings MO-W1 and MO-W2 were located just north and south of the tank and MO-W3 was within the drum storage area, downgradient of the decommissioned pipeline. A sludge sample was taken from the oil-grease trap for chemical analysis and PG&E was questioned about the composition of the transformers.

The north boring adjacent to the tank exhibited 87 ppm TPH. The 10' sample from the boring in the drum storage area was ND for volatile organics, semi-volatiles and pesticides and the CAM metal results for the boring were unremarkable. The groundwater sample from this well was also ND for the organic parameters. The groundwater sample from the wells adjacent to the fuel tank were ND for TPH , however low levels of BEX, chlorobenzene and dichlorobenzene were detected. The sediment sample from the oil-grease trap was impacted. It exhibited 5,100ppm TPH oil, chlorinated solvents (1,1-DCA, PCE, & 1,1,1-TCA), semi-volatiles (1,2-dichlorobenzene and butylbenzyl phthalate), pesticides (endosulfan sulfate), PCBs (Arochlor 1260) and elevated chromium and lead.

A PG&E representative stated that the transformers were either the "dry" type without PCBs, or there was no record of PCB use in them.

December 12, 1989- The southern tank (T-1, KF01) was removed under the oversight of Tom Peacock. Earth Technology collected three soil samples. (T-1, T-2 and T-3) from the excavation. Based upon the analytical results of these samples, Earth Technology returned on December 20, 1989 to overexcavate. However, since groundwater was encountered in the tank pit, only a grab groundwater sample was collected. An additional tank north of this one was found at this time.

Leaking Underground Fuel Storage Tank Program

VII. ADDITIONAL COMMENTS, DATA, ETC. (cont)

January 9, 1990- The northern tank (T-2, KF21) was removed under the oversight of Ariu Levi. Four soil samples (S-1 through S-4) were collected for analysis. Based upon elevated analytical results on these samples, on January 17, 1990, Earth Technology returned to overexcavate both pits. Nine confirmatory soil samples, (S-5 through S-13), were taken. A water sample from the tank pit of tank T-2 was collected on January 18, 1990 after the pit was purged. This water sample exhibited 36 mg/l TPHd, 570 ppb TPHg and 0.5, ND, ND, ND ppb BTEX, respectively. The confirmatory soil samples indicate that nearly all contaminated soil had been removed.

In 1993, Uribe and Associates visited the site. Well MO-W1 was sheared off and filled with debris. Well MO-W2 could not be located while MO-W3 was the only well intact and viable. Because of this situation, two additional replacement wells, MW-1 and MW-2, were installed on December 1993. MW-1 was located on the east side of the site and MW-2 located on the south, just northwest of tank T-2. The wells were installed mainly to obtain groundwater gradient. These three wells were monitored for three quarters and the gradient was verified to be southerly. Little to no soil contamination was found in the borings for these wells.

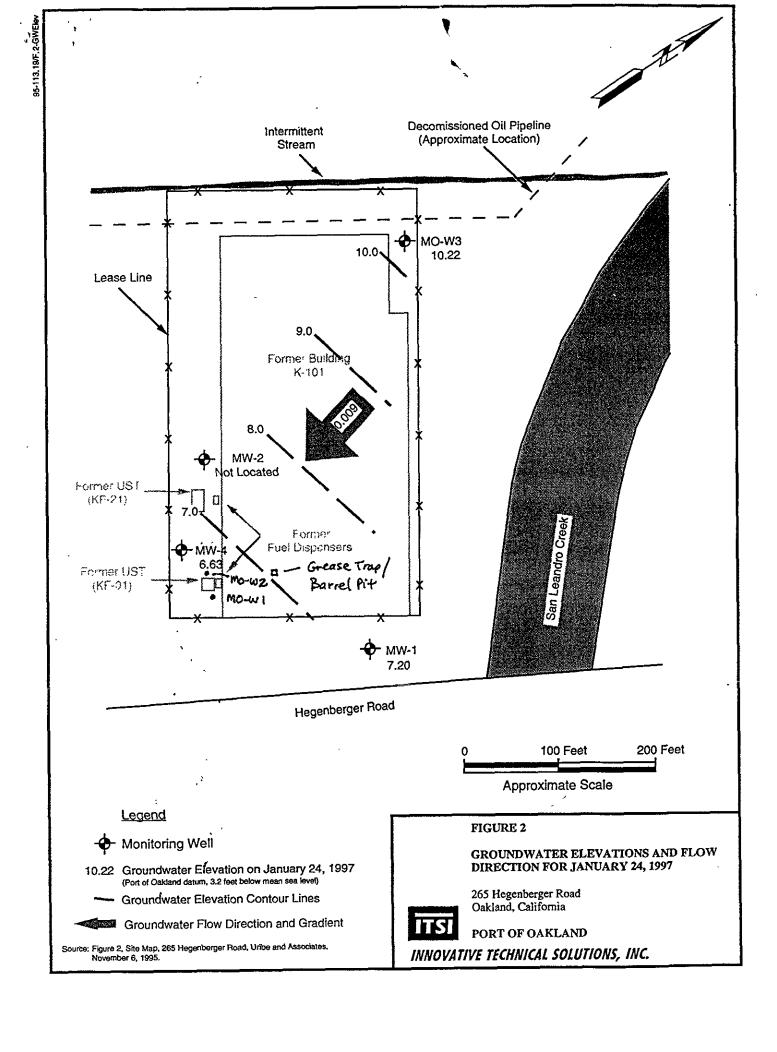
On May 21 and 24, 1993, Uribe and Associates oversaw the cleaning and removal of sludge from the sump. This was completed on June 10 and 11, 1993. The contents of the sump, approximately 110 gallons, was disposed to Recycling Resources, Inc. in Phoenix, AZ on 2/16/94. The removal of the sump was performed along with the demolition of the onsite building. Although no sample from beneath the sump was taken, the demolition of the site was overseen by the Port's resident engineer.

Upon determination of gradient, one additional well, MW-4, was installed downgradient to Tank T-2 on November 1995. MW-4 was monitored for petroleum contaminants and the constituents detected in the sump sample based upon its cross-gradient location relative to the sump. This sampling on 11/2/95 exhibited ND for VOC's, ND for pesticides, 22 ppb bis(2-ethyl hexyl phthalate), a common laboratory contaminant, 13.4 ppb lead and 15,4 ppb chromium. Thus, if there was a significant release from the sump, the contaminants were not detected in nearby groundwater.

Groundwater monitoring has occurred on all four wells two additional times, most recently on 1/24/97. Low to non-detectable concentration of all analytes has been observed.

Site closure is recommended based upon:

- 1. Adequate site characterization;
- 2. Underground tank and contaminated soil removal; and
- 3. Little to no impact to groundwater



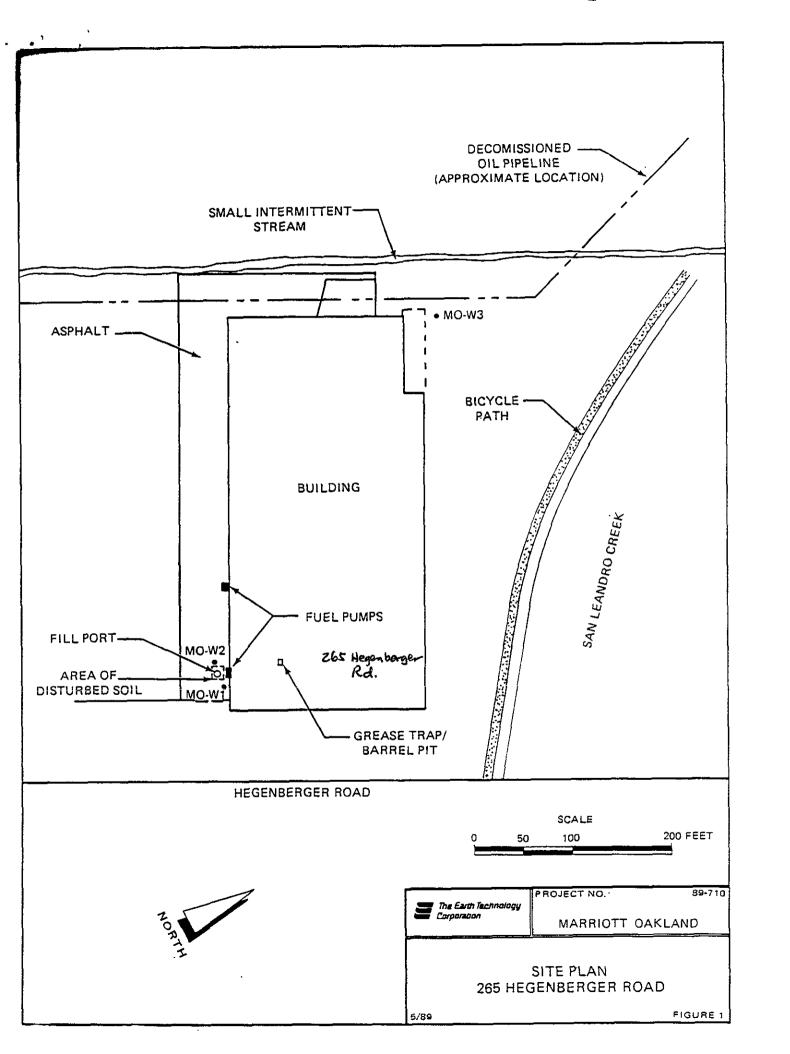


TABLE 4-1: SOIL CHEMICAL ANALYSIS RESULTS BORINGS FROM WELLS MO-WI THROUGH MO-W3

Analytical Method / Compound	d Type	MO-B1	MO-B2	MO-B3
Total Petroleum Hydrocarb Modified EPA Method 801 (mg/kg)	ons 5	ND	87 Gasoline	
Purgeable Priority Polluta EPA Method 624 (mg/kg)	ants			ND
B/N,A Extractable Priority EPA Method 8270 (mg/kg)	y Pollutants		~~~	ND
Pesticides/PCBs; EPA Metho (mg/kg)	od 8080			ND
CAM Metals (mg/kg)				
Barium Cadmiu Cobalt Chromi Copper Nickel Vanadi Zinc Arseni	um um um			130 4 7 46 32 36 39 43 1.7

o mg/kg is equivalent to parts per million (ppm)
o ND - not detected
o --- - not analyzed

TABLE 4-2: GROUNDWATER CHEMICAL ANALYSIS RESULTS

Analytical Method / Compound	Type	MO-W1	MO-W2	M0-W3
Aromatic Hydrocarbons EPA Method 602 (ug/l)				
Benzen Ethylbo Total	enzene	2.2 ND 1.1	2.1 18 1.8	
Total Petroleum Hydrocarbor Modified EPA Method 8015 (mg/l)	ns	ND	ND	
Purgeable Priority Pollutan EPA Method 624 (ug/l)	nts		~=-	ND
B/N,A Extractable Priority EPA Method 8270 (ug/1)	Pollutants			ND
Pesticides/PCBs; EPA Method (ug/1)	8080			ND
CAM Metals (mg/l)				
Barium Vanadiun Zinc Arsenic Selenium	•			0.07 0.03 0.07 0.006
Arsenic	1			

o ug/l is equivalent to parts per billion (ppb)
o mg/l is equivalent to parts per million (ppm)
o All results except TPH and CAM Metals are in ug/l

o ND - not detected

o --- - not analyzed

Marriott Corporation July 18, 1989 Page 4

Grandwater Montoring Wells MO-WI Through

Laboratory Analyses Results EPA Method 602 (Results reported in µg/1)

	MO-W1	WELL I.D. MO-W2	MO-W3
Benzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Chlorobenzene Ethylbenzene Toluene Total Xylene	14 0.8 ND(0.5) 1.9 6.6 5.0 1.2	1.8 ND (1.0) ND (1.0) ND (1.0) 3.2 30 4.9 1.2	ND (1.0) ND (1.0) ND (1.0) ND (1.0) ND (1.0) ND (1.0) ND (1.0) ND (1.0)

Note: ND = Not Detected, Detection Limit in Parentheses

Please call if you have any questions regarding the enclosed material.

Very truly yours,

THE EARTH TECHNOLOGY CORPORATION (Western)

Richard L. Bateman

Associate, Waste Management and Environmental Services

Enclosures

TABLE 4-3: SEDIMENT CHEMICAL ANALYSIS RESULTS GREASE PIT / BARREL TRAP

Analytical Method / Con	mpound Type	Result	
Total Petroleum Hydro Modified EPA Metho (mg/kg)	ocarbons	5,100 - as of	1
Purgeable Priority P EPA Method 624 (mg/kg)	1,1-Dichloroethane Tetrachloroethylene 1,1,1-Trichloroethane	10 10 30	
B/N,A Extractable P EPA Method 82 (mg/kg)	riority Pollutants 70 1,2-Dichlorobenzene Butylbenzylphthalate	700 5200	
Pesticides/PCBs; E (mg/kg)	PA Method 8080 Endosulfan sulfate Aroclor 1260	2800) 0.08	sestude
CAM Metals (mg/kg)	Barium Cadmium	250 0.9	
	Chromium Copper Molybdenum Nickel Lead Zinc Arsenic Selenium	2100 68 89 3 6500 52 1.0 0.2	
		•	

Notes:

o mg/kg is equivalent to parts per million (ppm)
o ND - not detected

o --- - not analyzed

1255 POWELL STREET EMERYVILLE. CA 94608 . (415) 428-2300

LOG NO: E89-12-294

Received: 12 DEC 89 Reported: 18 DEC 89

TANK TI (KAOI) SOIL RESULTS

Mr. Joe Casey The Earth Technology Corporation 100 West Broadway, Suite 5000 Long Beach, California 90802

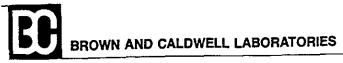
Project: C1183

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES		DA	ATE SAMPLED
12-294-1 12-294-2 12-294-3	T-1-2			12 DEC 89 12 DEC 89 12 DEC 89
PARAMETER		12-294-1	12-294-2	12-294-3
Petroleum H TPH-Volatil Date Analy Dilution F Benzene, m Ethylbenze Toluene, m Total Xyle C4 to C12	actor, Times g/kg ne, mg/kg	4700 12.12.89 200 <20 <20	12.12.89 1 <0.1 <0.1 <0.1 <0.1	1000 12.12.89 10 <1 1
Diesel Meth Date Analy Dilution F Fuel Hydro Carbon Ran	od 3550 zed actor, Times carbons, mg/kg	10 3200	12.15.89 1 <1 C12 - C25	10 57

Sim D. Lessley, Ph.D., Laboratory Director



1255 POWELL STREET EMERYVILLE. CA 94608 . (415) 428-2300

LOG NO: E89-12-505

Received: 20 DEC 89 Reported: 29 DEC 89

Mr. Jim Soukup The Earth Technology Corporation 100 West Broadway, Suite 5000 Long Beach, California 90802

Project: 90-1113

Grab 6W Sample from tank pit -T1.
REPORT OF ANALYTICAL RESULTS

Page l

LOG NO	SAMPLE DESCRIPTION, GROUND WAT	ER SAMPLES	DATE SAMPLED
12-505-1			20 DEC 89
PARAMETER		12-505-1	
Petroleum H TPH-Volatil Date Analy Dilution F Benzene, u Ethylbenze Toluene, u Total Xyle C4 to C12 Other TPH TPH - Semiv Date Analy Dilution F C12 to C25 C12-C25 Fu	ase, gravimetric, mg/L ydrocarbons by IR, mg/L e Hydrocarbons/BTEX zed actor, Times g/L ne, ug/L g/L ne Isomers, ug/L Hydrocarbons, ug/L -Volatile Hydrocarbons/BTEX olatile Hydrocarbons	12.21.89 10 11 21 5.1 51 1500 12.27.89 10 2000 DIESEL	
0 0000			

This Fuel characterization is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.

Sim D. Lessley, Ph.D/, Laboratory Director

Analytical Report

LOG NO: E90-01-194

Received: 09 JAN 90 Reported: 15 JAN 90

Mr. Joe Casey The Earth Technology Corporation 100 West Broadway, Suite 5000 Long Beach, California 90802 Purchase Order: C1206

SOIL SAMPLES PROM TANK TZ (KFZI)

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAM	PLES		DA	CE SAMPLED
01-194-1 01-194-2 01-194-3 01-194-4	S-1, East End S-2, West End				09 JAN 90 09 JAN 90 09 JAN 90 09 JAN 90
PARAMETER		01-194-1	01-194-2	01-194-3	01-194-4
Oil and Gre	ase, gravimetric, mg/kg ydrocarbons by IR, mg/kg	460 5000	2100 940	1500 920	100 <50
TPH-Volatil Date Analy	e Hydrocarbons/BTEX	01.11.90	01.11.90	01.11.90	01.11.90
Dilution F Benzene, m	actor, Times	20 <2	<0.2 <0.2	<0.8	<0.1 <0.1
Ethylbenze Toluene, m	ne, mg/kg	<2 <2	<0.2	<0.8	<0.1 <0.1
Total Xvle	ne Isomers, mg/kg Hydrocarbons, mg/kg	<2 — 900	<0.2 130		7
Other TPH	I-Volatile Hydrocarbons/BTEX				
Diesel Meth		01.12.90	01.12.90 50	01.12.90 50	01.12.90
Dilution Fuel Hydro	Pactor, Times ocarbons, mg/kg	50 7100	5700 DIESEL	2500	13 DIESEL
Fuel Chara	acterization, . esel Method 3550	DIESEL			

This Fuel characterization is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.

Sim D. Lessley, Ph.D., Laboratory Director

1255 Powell Street Emeryville, CA 94608 415/428-2300 Fax: 415/547-3643



Analytical Report

LOG NO: E90-01-512

Received: 18 JAN 90

Reported: 25 JAN 90

Mr. Joe Casey

The Earth Technology Corporation 100 West Broadway, Suite 5000

Long Beach, California 90802

Purchase Order: C1206

Jack 2 grab GW
Page 2

REPORT OF ANALYTICAL RESULTS

LOG NO SAMPLE DESCRIPTION, AQUEOUS SAMPLES		DATE SAMPLED
01-512-2 SW-2-A-1		18 JAN 90
PARAMETER	01-512-2	
Oil and Grease, gravimetric, mg/L Petroleum Hydrocarbons by IR, mg/L	10 12	
Diesel Method 3510 Date Analyzed Dilution Factor, Times	01.19.90	
Fuel Hydrocarbons, mg/L Fuel Characterization, . Other Diesel Method 3510	DIESEL	
TPH-Volatile Hydrocarbons/BTEX Date Analyzed	01.22.90	
Dilution Factor, Times Benzene, ug/L	1 0.5	
Ethylbenzene, ug/L Toluene, ug/L	<0.3 <0.3	
Total Xylene Isomers, ug/L C4 to C12 Hydrocarbons, ug/L Other TPH-Volatile Hydrocarbons/BTEX	\$0.3 570	

This Fuel characterization is a qualitative identification is based upon a visual comparison of sample chromatograms with those from authentic standards.

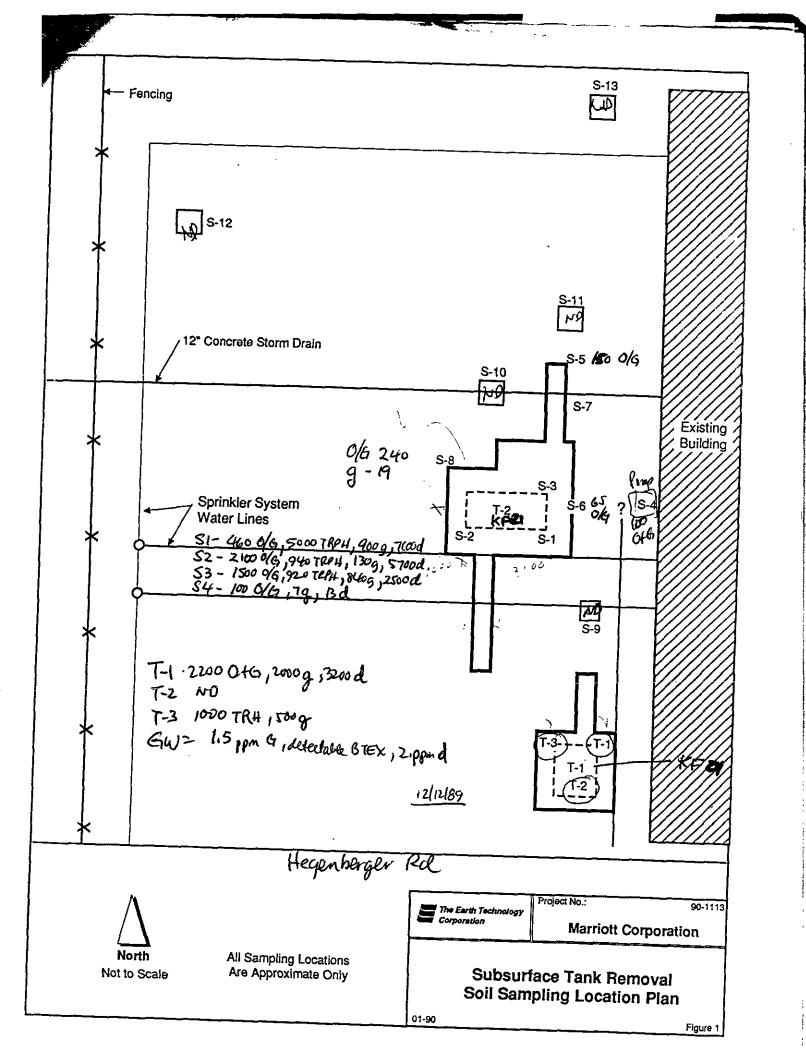
Ph.D., Laboratory Director

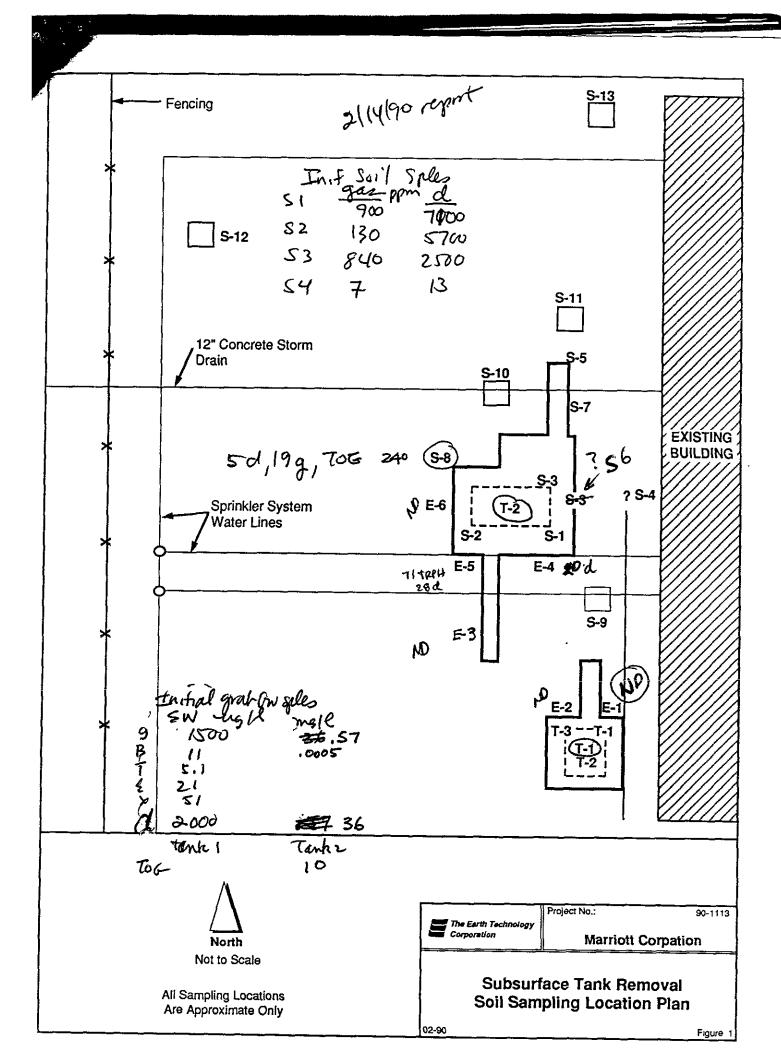


TABLE OF ANALYTICAL RESULTS FROM TANK REMOVALS AND OVEREXCAVATION AT 265 HEGENBERGER RD.

All Concentrations in mg/kg or mg/l (ppm)

Sample ID	Туре	TPHg	TPHd	В	T	E	X	TOG	TPH
Original t	ank res	ults fr	om remov	ral of t	ank T-	1			
T-1-1	8	2000	3200	<20			<20 2	200	4700
T-1-2	8	<5	<1	<0.1			<0.1 <		<50
T-1-3	s	500	57	<1	<1	1 4		_	1000
	J	500	37	_		_ ~	`	.50	1000
Grab groun	dwater	sample 1	from tan	k T-1 p	it				
SW	W	1.5	2.0	0.011	0.005	0.021	0.051	. 5	<5
Overexcava	tion an	d trencl	h sample	s of ta	nk T-2				
T-2-8-7	S	ND 1	for vola	tile or	ganics	EPA 8	240		
T-2-S-8	S	19	5			<0.02		240	<50
Overexcava	ition sa	mples fo	rom tank	T-2					
S-1	S	900	7100	<2	<2	<2	<2	460	5000
S-2	S	130	5700	<0.2	<0.2	<0.2	<0.2	2100	940
S-3	S	840	2500	<0.8	<0.8	<0.8	<0.8	1500	920
S-4	S	7	13	<0.1	<0.1	<0.1	<0.1		<50
T-2-8-5	ន	4	4	<0.02	<0.02	<0.02	<0.02	150	<50
T-2-S-6	ន	<1	<1	<0.02	<0.02	<0.02	<0.02	65	<50
Grab groun	ndwater		from tan						
SW-2-A-1	W	0.57	36	0005	<0.3	<0.3	<0.3	10	12
				,0005					
Pot hole s	amples								
8-9	S	<1	<1	<0.02	<0.02	<0.02	<0.02	!	
S-10	S	1	<1	<0.02	<0.02	<0.02	<0.02	<u></u>	
8-11	S	<1	2	<0.02	<0.02	<0.02	<0.02	!	
s-12	S	2	4			<0.02			
S-13	S	4	<1	<0.02	<0.02	<0.02	<0.02	:	
S-14	S	<1	<1	<0.02	<0.02	<0.02	<0.02		
Overexcava	tion sa	mples							
E1	S	~8	<5	NI) ND	ND	ND	<	5 6
E2	S	<8	<5	NI	ND ND	ND	ND	1	39
E3	S	<8	<5	NI) ND	ND	ND	1	4 10
E4	S	<8	20	NI	ND	ND	ND	5	2 34
E5	S	<8	28	NE) ND	ND	ND	1	6 71
E6	S	<8	<5	NI) ND	ND	ND		3 8





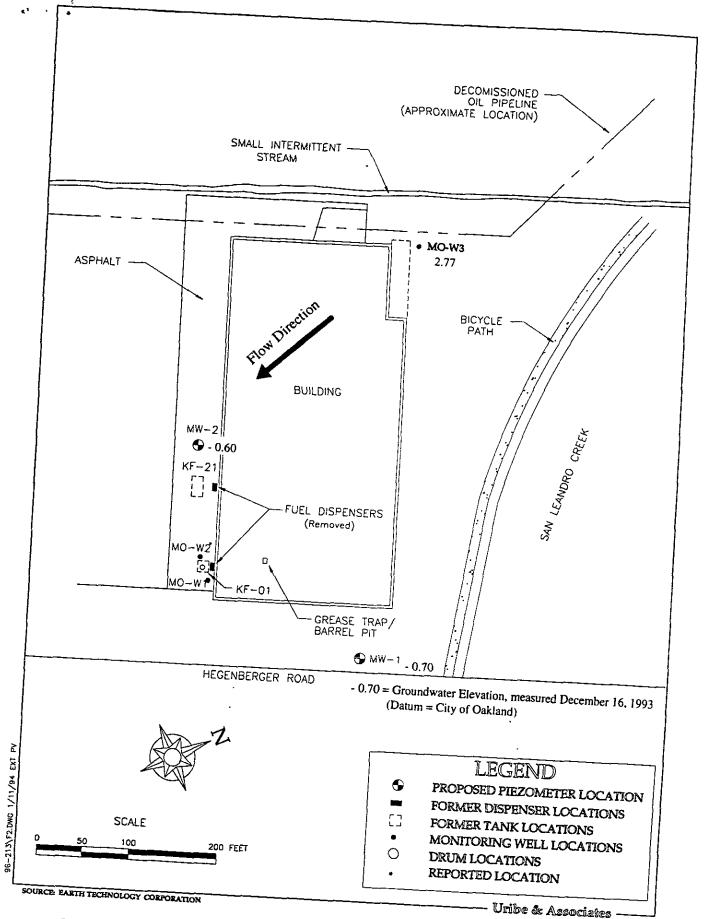


Figure 2: Site Map, 265 Hegenberger Road, Oakland, California

Table 1: Laboratory Analysis Data for
Soil Samples Collected from Boring MW-1 on December 7, 1993
Concentrations in mg/kg

Sample ID	TPH- Gasoline	TPH- Diesel	TPH- 1Motor Oil 1	Benzene	Toluene	Ethyl benzene	Xylenes
MW-1-2.0	<1.0	3	80	<0.005	<0.005	< 0.005	< 0.005
MW-1-6.5	<1.0	<1.0	<30	< 0.005	< 0.005	< 0.005	<0.005
MW-1-10.0	<1.0	<1.0	<30	< 0.005	< 0.005	< 0.005	< 0.005
MW-1-13.0	<1.0	<1.0	<30	< 0.005	< 0.005	< 0.005	< 0.005
MW-1-16.0	<1.0	<1.0	<30	<0.005	<0.005	< 0.005	<0.005

Table 2: Laboratory Analysis Data for Soil Samples Collected from Boring MW-2 on December 7, 1993 Concentrations in mg/kg

Sample ID	TPH- Gasoline	TPH- Diesel	TPH- 1 Motor Oil 1	Benzene	Toluene	Ethyl benzene	Xylenes
MW-2-3.0	<1.0	<1.0	<30	<0.005	< 0.005	< 0.005	< 0.005
MW-2-5.5	<1.0	<1.0	<30	< 0.005	< 0.005	< 0.005	< 0.005
MW-2-9.5	<1.0	<1.0	<30	< 0.005	< 0.005	< 0.005	< 0.005
MW-2-14.5	<1.0	<1.0	<30	< 0.005	< 0.005	< 0.005	< 0.005

Notes:

¹ Holding time was exceeded. It is not anticipated that this would affect motor oil concentrations.

¹ Holding time was exceeded. It is not anticipated that this would affect motor oil concentrations.

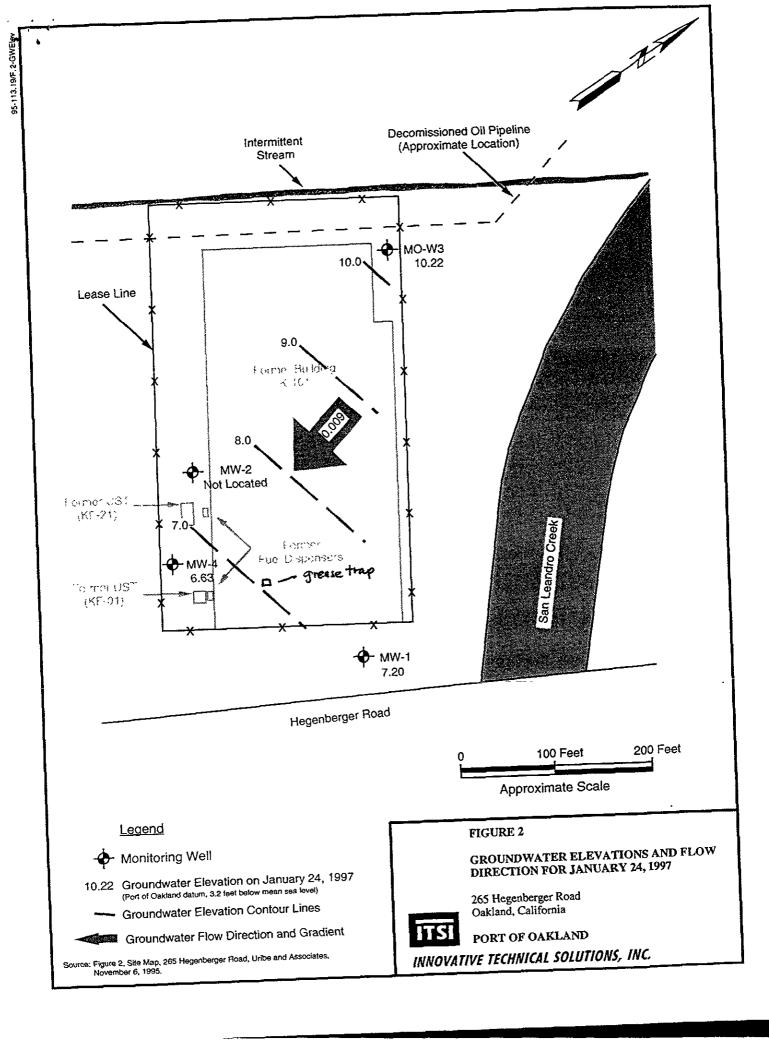


Table 1: Summary of Laboratory Analysis Results for Soil Samples Collected from Boring MW-4 on October 23, 1995 265 Hegenberger Road, Oakland, California

Concentrations in mg/kg

	TPH-	TPH-	TPH-					
Sample ID	Gasoline	Diesel	Motor Oil	Benzene	Toluene	Ethyl benzene	Xylenes	
MW-4-5.0	ND(0.20)	ND(5)	ND(10)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	-
MW-4-10.0	ND(0.20)	ND(5)	ND(10)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.002)	

Notes:

ND() = Not detected at or above the indicated laboratory method detection/reporting limit. Other samples collected from this boring (at 15 and 18 feet bgs) were not analyzed.

Table 4: Summary of Laboratory Analysis Results for BTEX and Chlorobenzene in Groundwater Monitoring Well Samples Collected from 265 Hegenberger Road, Oakland, California (Concentrations in µg/l)

Well/	Groundwater			Ethyl	Total	:
Date	Elevation	Benzene Toluen		Benzene	Xylenes	Chlorobenzene
MW-1						
12/17/93	-0. 7 0	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
03/25/94	-0.75	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	• na
06/03/94	-0.99	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
11/2/95	5.16	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	na
						•
MW-2						•
12/17/93	-0.60	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
03/25/94	-0.49	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	na
06/03/94	-0.73	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MO-W3						
12/17/93	2.77	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
03/25/94	2.13	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	na
06/03/94	1.38	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
11/2/95	5.31	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	na
MW-4						
11/2/95	4.87	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(5)

ND() = Not detected at or above the indicated laboratory method detection/reporting limit $na = not \ analyzed$

Groundwater Elevations relative to City of Oakland Datum

Table 5: Summary of Laboratory Analysis for
Volatile Organic Compounds, PCB's, and Semi-Volatile
Organic Compounds in Groundwater Monitoring Well Samples
Collected from 265 Hegenberger Road, Oakland, California
(Concentrations in µg/l)

Well/ Date	Groundw Elevatio	-	Pesticides & PCB's	Semi- VOC's	bis(2-ethylhexyl) phthalate	_	Chromium
MW-4 11/2/95	4.87	ND(100)	ND(1)	ND(67) ¹	22²	13.4	15.4

ND() = Not detected at or above the indicated laboratory method detection/reporting limit na = not analyzed

1 = All analytes were not detected except bis(2-ethylhexyl)phthalate.

2 = Laboratory reported: Possible laboratory contaminant

Groundwater Elevations relative to City of Oakland Datum

The full list of compounds analyzed for by each method is listed on the laboratory data sheets in Appendix C.

TABLE 2 SUMMARY OF LABORATORY RESULTS (in µg/l) 265 HEGENBERGER ROAD OAKLAND, CALIFORNIA

Monitoring Well ID	Date of Sampling	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	ТРНј	TPHd	TPHmo	TPHms	TPHk	Рь	Cr
MW-1	12/17/93 ¹	<50	<0.1	<0.1	<0.1	<0.1	NA	<50	NA	NA	NA	•	
-	03/25/941	<50	<0.5	<0.5	<0.5	<0.5	<50	<50	<500	<150	<50		
	06/03/941	<50	<0.5	<0.5	<0.5	<0.5	<50	220	<500	<150	<50	•	
•	11/02/951	53	<0.5	<0.5	<0.5	<1	NA	<50	860	NA	NA	-	-
•	10/24/96	<50	<0.5	<0.5	<0.5	<1	•	-	-	•		9.93	<7
•	01/24/97	<50	<0.5	<0.5	<0.5	<1		<50	<250		-	<5	<7
MW-2	12/17/93 ¹	<50	<0.1	<0.1	<0.1	<0.1	NA	1,100	NA	NA	NA	-	-
•	03/25/94 ¹	<50	<0.5	<0.5	<0.5	<0.5	<50	160	<500	<150	<50	•	
	06/03/94 ^t	<50	<0.5	<0.5	<0.5	<0.5	<50	260	<500	<150	<50		<u> </u>
	11/02/951	•	•		-	-	•	•		-			
	10/24/96	-		-		-	•	-	-	•	·	-	-
	01/24/97	•	-	<u>.</u>	•	•		-	•				-
M0-W3	12/17/931	<50	<0.1	<0.1	<0.1	<0.1	NA	130	NA	NA	NA		
	03/25/941	<50	<0.5	<0.5	<0.5	<0.5	<50	<50	<500	<150	<50	•	
	06/03/941	<50	<0.5	<0.5	<0.5	<0.5	<50	88	<500	<150	<50	-	
	11/02/951	<50	<0.5	<0.5	<0.5	<1	NA	570	540	NA	NA	·	
	10/24/96	<50	<0.5	7.7	<0.5	<1		-	<u> </u>	•	-	<5	2,43
	01/24/97	<50	<0.5	<0.5	<0.5	<1	•	<50	<250	-		<5	<7
MW-4 '	11/02/951	95	<0.5	<0.5	<0.5	<1	NA	130	<260	NA	NA	13.4	15.4
	10/24/96	<50	<0.5	<0.5	<0.5	<1	-	-	•	•	-	<5	8.17
	01/24/97	<50	<0.5	<0.5	<0.5	<1		<50	<250	-	•	<5	<7

¹From Table 3 and 4, Summary of Laboratory Analyses, 265 Hegenberger Road, Oakland, California, by Uribe and Associates.

TPHg = Total petroleum hydrocarbons (TPH) as gasoline, TPHj = TPH as jet fuel, TPHd = TPH as diesel, TPHmo = TPH as motor oil, TPHms = TPH as mineral spirits, and TPHk = TPH as kerosene, Pb - Lead, Cr - Chromium.