



DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 152 - 121 98th Ave, Oakland, CA

April 19, 1996

Mr. Karl Westerman
Budget Rent A Car
4225 Naperville Road
Lisle, IL 60532-3662

Dear Mr. Westerman:

This letter confirms the completion of site investigation and remedial action for the four former underground storage tanks (1-1000 gallon waste oil and 3-12,000 gallon gasoline tanks) removed from the above site on August 17, 1989 and July 21, 1992. 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 underground tank release 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 Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Jun Makishima, Interim Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
files (budget9)

61-0817
FACILITY IDENTIFICATION
05 DEC 11 PM 2:01

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: November 2, 1995

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Budget Rent A Car
Site facility address: 121 98th Ave, Oakland 94603
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 152
URF filing date: 7/17/95 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Budget Rent a Car Karl Westermann	4225 Naperville Rd Lisle, IL 60532-3662	(708) 955-7203

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	1,000	Waste Oil	Removed	8/17/89
2	12,000	Gasoline	Removed	7/21/92
3	12,000	Gasoline	Removed	7/21/92
4	12,000	Diesel	Removed	7/21/92

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown
Site characterization complete? YES
Date approved by oversight agency: 7/3/95
Monitoring Wells installed? Yes Number: 4
Proper screened interval? Yes, 3.5 to 10.8' bgs
Highest GW depth below ground surface: 2.69' Lowest depth: 6.56'
Flow direction: E, SE
Most sensitive current use: Commercial
Are drinking water wells affected? No Aquifer name: Unknown
Is surface water affected? No Nearest affected SW name: NA
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 (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank	1 UST	Erickson, in Richmond	8/17/89
	3 USTs	Erickson, in Richmond	7/21/92
Rinseate	110 gallons	PRC Patterson, in Patterson	8/31/92
Soil	300 cy bioremediated and reused onsite		
Groundwater	10,000 gal	Gibson Oil, in Redwood City	8/31/92

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before</u>	<u>After¹</u>	<u>Before²</u>	<u>After</u>
TPH (Gas)	14,000	ND	39,000	ND
TPH (Diesel)	1,800	1,800	NA	ND
Benzene	240	0.06	5,000	ND
Toluene	580	0.44	11,000	ND
Ethylbenzene	270	0.71	1,500	ND
Xylenes	880	4.9	8,800	ND
Oil & Grease	9,000 ³	8,200		ND
Heavy metals	Cd, Cr, Pb, Ni, Zn: <10X STLC in soil			
Other	HVOC	ND ²		
	SVOC	ND ²		ND

- NOTE:
- 1 From sample WOW at 2.5' bgs in W.O. excavation
 - 2 Grab groundwater sample from fuel pit
 - 3 from waste oil pit

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

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

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

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

Site management requirements: **None**

Should corrective action be reviewed if land use changes? **YES**

Monitoring wells Decommissioned: **None, pending site closure**

Number Decommissioned: **0** Number Retained: **4**

List enforcement actions taken: **None**

List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature:  Date: 11/6/95

Reviewed by

Name: Barney Chan Title: Haz Mat Specialist

Signature:  Date: 11/6/95


Name: Dale Klettke Title: Haz Mat Specialist

Signature:  Date: 11/2/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 11/7/95 RB Response: 

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature:  Date: 12/7/95

VII. ADDITIONAL COMMENTS, DATA, ETC.

A 1,000 gallon waste oil UST was removed on August 17, 1989. Two soil samples collected in native soil beneath the UST, at approximately 8' depth, did not detect TPH-G, BTEX, HVOCs, or SVOCs. The four metals Cd, Cr, Pb, and Zn were <10x STLC. Only 5.1 ppm TPH-D and TOG at levels ranging from 1,200 to 9,000 ppm were detected. Removal of impacted soil did not take place until the three fuel USTs were removed at a later date. See Fig 2, Table 1.

On July 21, 1992 three 12K fuel USTs (2 gasoline, 1 diesel), associated pipings, and dispensers were removed. Groundwater in the pit dictated the collection of soil samples from the sidewalls, at approximately 8 to 9' depth. Laboratory results did not exhibit TPH-G, TPH-D, benzene or ethylbenzene. Low levels of toluene and xylenes (up to 0.0074 ppm) were detected.

A soil sample collected from beneath dispenser 4, nearest the building, exhibited 14,000 ppm TPH-G and 1,000 ppm TPH-D at 2' depth. Overexcavation to 6.5' depth removed most of the contamination. Up to 0.0071 ppm toluene and 0.014 ppm xylenes were detected at 6.5' depth. The former waste oil pit was also overexcavated to approximately 13' depth. Five soil samples collected from the floor bottom did not detect TPH-G, TPH-D, BTEX, or TOG. A soil sample from 2.5' bgs (WOW) detected up to 1,800 ppm TPH-D, 8,200 ppm TOG and 0.06, 0.44, 0.71, and 4.9 ppm BTEX, respectively. See Fig 2 and 3, Table 1.

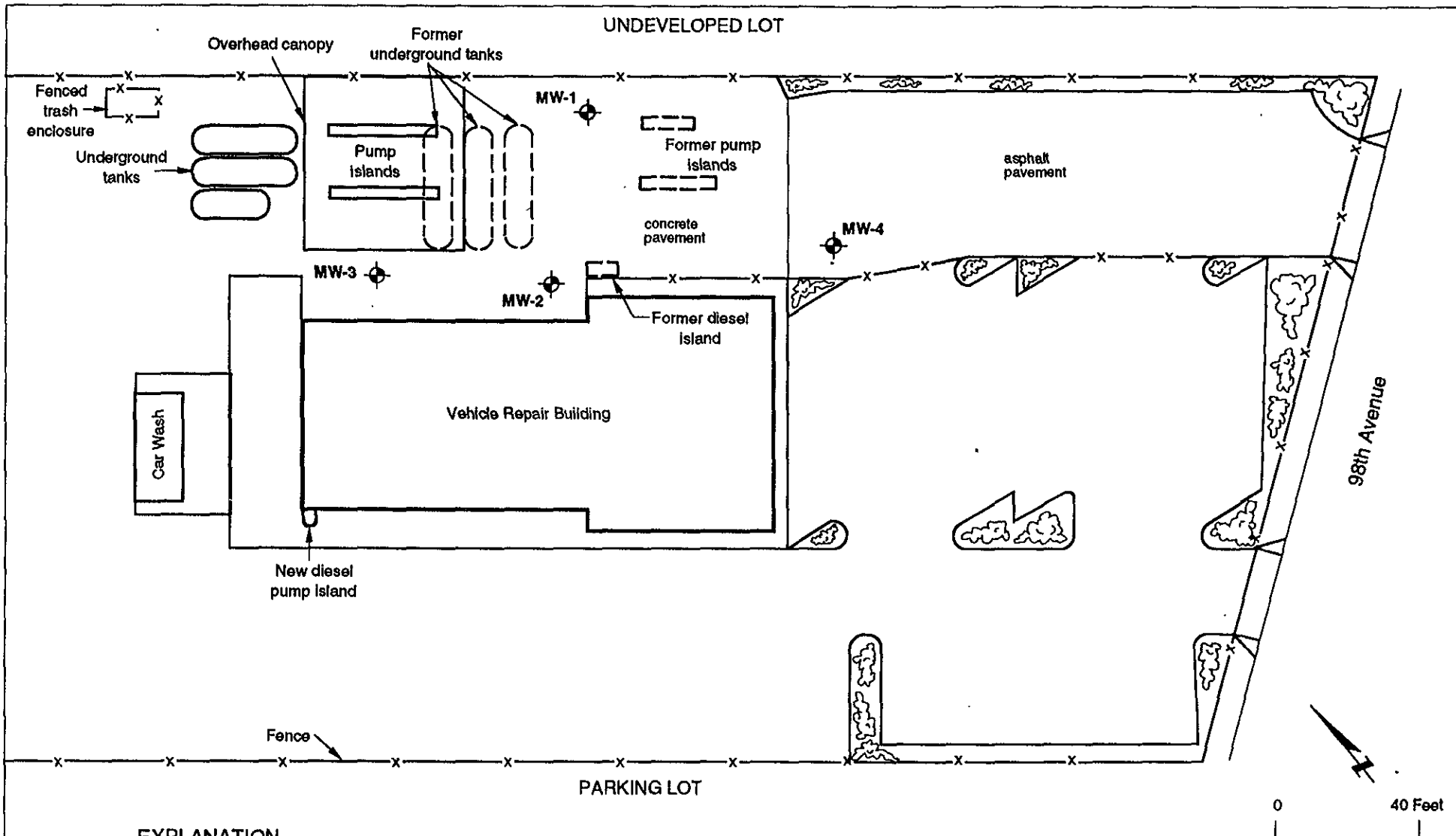
In May 1993 five soil borings were advanced, of which three were converted into monitoring wells. Soil samples collected from the borings did not detect TPH-G, TPH-D, or BTEX. The initial groundwater sampling event detected up to 1,100 ppb TPH-D in well MW-1, and 480 ppb TPH-D in well MW-2. TPH-G and BTEX were not detected. See Fig 1, Table 1.

Following five consecutive quarters of sampling, it was determined that groundwater flows predominantly in an east-southeasterly direction. An additional well, MW-4, was installed southeast of the former dispensers.

TPH-D has continuously been detected in wells MW-1 and MW-2, ranging from approximately 200 to 1,000 ppb. PNAs were not detected in MW-1 on the March 24, 1995 sampling event. Wells MW-3 and MW-4 have not detected significant levels of contaminants (except for anomalous results in Nov-Dec 1994). See Table 2.

Groundwater at this site has been minimally impacted with TPH-D. However, the chemicals of concern, namely benzene, benzo(a)pyrenes, and naphthalene, are absent. Residual contaminants should bioattenuate in time. Continued groundwater sampling is not warranted.

budget7



EXPLANATION

MW-1  Monitoring well

SITE PLAN		
Budget Rent a Car Systems Facility 121 98th Avenue Oakland, California		
McCulley, Frick & Gilman, Inc.	Project No. 93-2348	Figure  1

Adapted from: Accutite Environmental Engineering, 1993, Report Summary of Fuel Tank Removal Activities at Budget Rent-a-Car (sic), 121 98th Avenue, Oakland, CA, January 4

AGORER

FIGURE 2 SAMPLE LOCATIONS

BUDGET RENT-A-CAR
121-98th AVENUE OAKLAND, CA

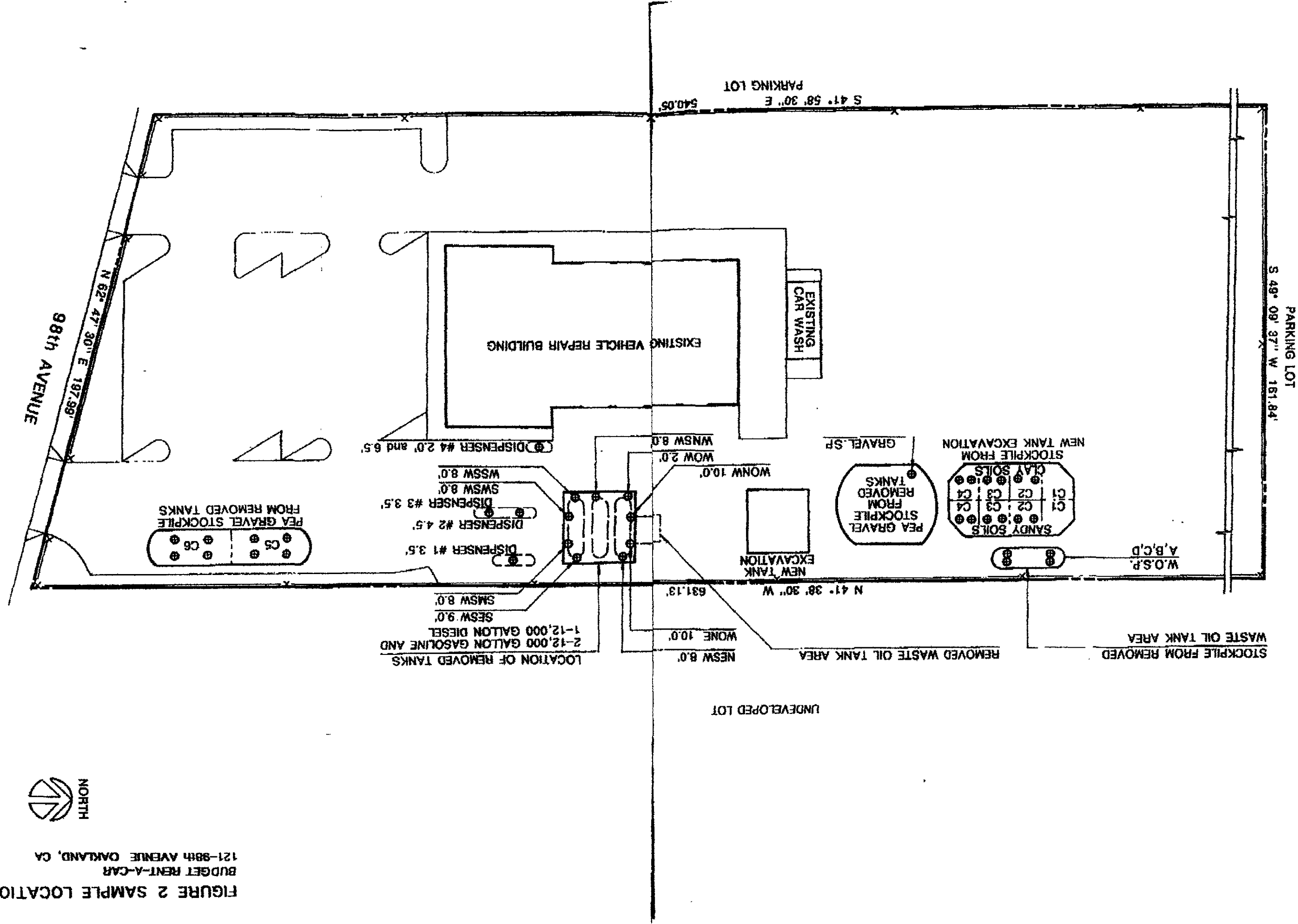
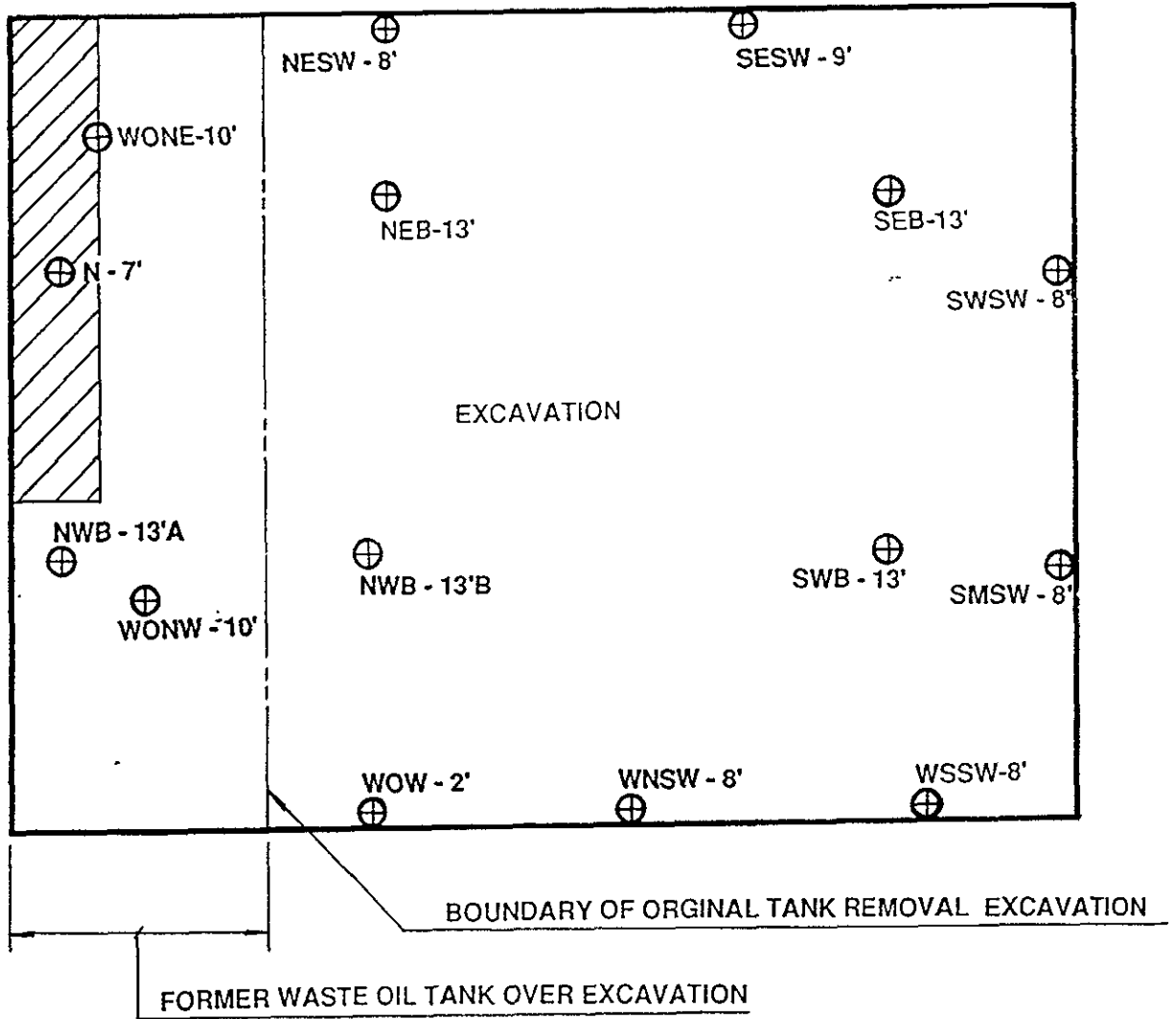




FIGURE 3
REMOVED TANKS EXCAVATION
SAMPLE LOCATIONS
BUDGET RENT-A-CAR
121 98TH AVENUE
OAKLAND, CA



LEGEND

- ⊕ SOIL SAMPLE LOCATION
- /// SLOPED EDGE

TABLE 1
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CHEMICAL ANALYSES OF SOIL SAMPLES¹

Budget Rent a Car Corporation Facility
121 98th Avenue
Oakland, California

SAMPLE NO.	DATE SAMPLED	SAMPLE LOCATION	SAMPLE DEPTH (feet bgl ³)	TPH ² AS GASOLINE (mg/Kg)	TPH ² AS DIESEL (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL OIL AND GREASE (mg/Kg)
				Reporting Limit 1.0	1.0	0.005	0.005	0.005	0.005	50
W.O. Fill	08-17-89	Tank Excavation Floor	8	ND ^{4,5}	ND ⁵	ND ⁵	ND ⁵	ND ⁵	ND ⁵	9,000
W.O. End	08-17-89	Tank Excavation Floor	8	ND ⁵	5.1	ND ⁵	ND ⁵	ND ⁵	ND ⁵	1,200
WSSW	07-21-92	Tank Excavation Sidewall	8	ND	ND	ND	ND	ND	ND	- ⁶
SMSW	07-21-92	Tank Excavation Sidewall	8	ND	ND	ND	ND	ND	ND	-
SWSW	07-21-92	Tank Excavation Sidewall	8	ND	ND	ND	ND	ND	ND	-
NESW	07-21-92	Tank Excavation Sidewall	8	ND	ND	ND	ND	ND	ND	-
SESE	07-21-92	Tank Excavation Sidewall	9	ND	ND	ND	ND	ND	ND	-
WNSW	07-21-92	Tank Excavation Sidewall	8	ND	ND	ND	0.0072	ND	0.0074	-
Dispenser 1	07-23-92	Fuel Dispenser Excavation	3.5	ND	ND	ND	ND	ND	0.018	-
Dispenser 2	07-23-92	Fuel Dispenser Excavation	4.5	ND	ND	ND	0.0078	ND	0.014	-

TABLES

TABLE 1
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CHEMICAL ANALYSES OF SOIL SAMPLES¹

Budget Rent a Car Corporation Facility
121 98th Avenue
Oakland, California

SAMPLE NO.	DATE SAMPLED	SAMPLE LOCATION	SAMPLE DEPTH (feet bgl ³)	TPH ² AS GASOLINE (mg/Kg)	TPH ² AS DIESEL (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL OIL AND GREASE (mg/Kg)
				Reporting Limit 1.0	1.0	0.005	0.005	0.005	0.005	50
Dispenser 3	07-23-92	Fuel Dispenser Excavation	5	ND	ND	ND	ND	ND	0.0064	-
Dispenser 4	07-23-92	Diesel Dispenser Excavation	2	14,000	1,000	240	580	270	880	-
Dispenser 4B	07-23-92	Diesel Dispenser Excavation	6.5	ND	ND	ND	0.0071	ND	0.014	-
WONW	07-23-92	Tank Excavation Sidewall	10	ND	ND	ND	ND	ND	ND	ND [1.0] ⁷
WONE	07-23-92	Tank Excavation Sidewall	10	ND	ND	ND	0.017	0.0051	0.02	-
WOW	07-23-92	Tank Excavation Sidewall	2.5	110	1,800	0.06	0.44	0.71	4.9	8,200
SEB	08-06-92	Tank Excavation Floor	13	ND	ND	ND	ND	ND	ND	-
SWB	08-06-92	Tank Excavation Floor	13	ND	ND	ND	ND	ND	ND	-
NWB	08-06-92	Tank Excavation Floor	13	ND	ND	ND	ND	ND	ND	ND (4.5)
NEB	08-06-92	Tank Excavation Floor	13	ND	ND	ND	ND	ND	ND	-
N	08-06-92	Tank Excavation Sidewall	7	-	-	-	-	-	-	ND (4.5)

TABLE 1
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Oakland, California

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				Reporting Limit 1.0	1.0	0.005	0.005	0.005	0.005	50
NWO	10-09-92	Waste Oil Piping	2	ND	ND	ND	ND	ND	ND	ND
WOB	10-14-92	Waste Oil Piping	1	ND	2.0	ND	ND	ND	ND	ND
SB-4-1-2	05-11-93	Boring SB-4	3.5-4	ND	ND	ND	ND	ND	ND	ND
SB-4-2-2	05-11-93	Boring SB-4	8.5-9	ND	ND	ND	ND	ND	ND	ND
SB-4-3-2	05-11-93	Boring SB-4	13.5-14	ND	ND	ND	ND	ND	ND	ND
MW-1-1-1	05-11-93	Boring MW-1A	4.5-5	ND	ND	ND	ND	ND	ND	-
MW-1-2-2	05-11-93	Boring MW-1A	7-7.5	ND	ND	ND	ND	ND	ND	-
MW-1-3-3	05-11-93	Boring MW-1A	12.5-13	ND	ND	ND	ND	ND	ND	-
MW-3-1-3	05-11-93	Boring MW-3	3.5-4	ND	ND	ND	ND	ND	ND	ND
MW-3-2-2	05-11-93	Boring MW-3	8-8.5	ND	ND	ND	ND	ND	ND	ND
MW-3-3-2	05-11-93	Boring MW-3	12-12.5	ND	ND	ND	ND	ND	ND	ND
SB-5-1-2	05-12-93	Boring SB-5	5-5.5	ND	ND	ND	ND	ND	ND	-
SB-5-2-2	05-12-93	Boring SB-5	10-10.5	ND	ND	ND	ND	ND	ND	-
SB-5-3-2	05-12-93	Boring SB-5	14-14.5	ND	ND	ND	ND	ND	ND	-

TABLE 1
(Page 4 of 4)

CHEMICAL ANALYSES OF SOIL SAMPLES¹

Budget Rent a Car Corporation Facility
121 98th Avenue
Oakland, California

SAMPLE NO.	DATE SAMPLED	SAMPLE LOCATION	SAMPLE DEPTH (feet bgl ³)	TPH ² AS GASOLINE (mg/Kg)	TPH ² AS DIESEL (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL OIL AND GREASE (mg/Kg)
				Reporting Limit 1.0	1.0	0.005	0.005	0.005	0.005	50
MW-2-1-2	05-12-93	Boring MW-2	3.5-4	ND	ND	ND	ND	ND	ND	-
MW-2-2-2	05-12-93	Boring MW-2	8-8.5	ND	ND	ND	ND	ND	ND	-
MW-2-3-2	05-12-93	Boring MW-2	12.5-13	ND	ND	ND	ND	ND	ND	-

NOTES:

- ¹ Analytical results from 08-17-89 through 10-14-92 compiled from: Report--Summary of Fuel Tank Removal Activities at Budget Rent-a-Car, 121 98th Avenue, Oakland, California prepared by Accutite Environmental Engineering, January 4, 1993.
- ² TPH = Total Petroleum Hydrocarbons.
- ³ bgl = below ground level.
- ⁴ ND = not detected at or above the laboratory method reporting limit listed at the top of the column.
- ⁵ Laboratory method reporting limits are unknown.
- ⁶ - indicates not analyzed.
- ⁷ [] indicates reporting limit other than that indicated at top of column.

TABLE 2
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SUMMARY OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES FROM MONITORING WELLS

Budget Rent a Car Systems Facility
121 98th Avenue
Oakland, California

WELL NO.	SAMPLE NO.	DATE SAMPLED	Reporting Limit	TVPH ¹ AS GASOLINE ($\mu\text{g/L}$)	TEPH ² AS DIESEL ($\mu\text{g/L}$)	BENZENE ($\mu\text{g/L}$)	TOLUENE ($\mu\text{g/L}$)	ETHYLBENZENE ($\mu\text{g/L}$)	TOTAL XYLENES ($\mu\text{g/L}$)	OIL AND GREASE (mg/L)
			50	50	0.5	0.5	0.5	0.5	5	
MW-1	MW-1	05-18-93	ND ³	1,100	ND	ND	ND	ND	ND	4
		08-25-93	ND	650	ND	ND	ND	ND	ND	-
		11-23-93	ND	940 ⁵	ND	ND	ND	0.7	ND	-
		02-25-94	ND	590 ⁶	ND	ND	ND	ND	ND	-
		05-25-94	ND	490	ND	ND	ND	ND	ND	-
		09-21-94	ND	650 ⁷	ND	ND	ND	ND	ND	-
		12-21-94	ND	490 ⁷	ND	ND	ND	ND	ND	-
		03-24-95	-	200 ⁷	-	-	-	-	-	-
MW-2	MW-2	05-18-93	ND	580	ND	ND	ND	ND	ND	-
		08-25-93	ND	480	ND	ND	ND	ND	ND	-
		11-23-93	ND	590 ⁵	ND	ND	ND	ND	ND	-
		02-25-94	ND	ND ⁶	ND	ND	ND	ND	ND	-
		05-25-94	ND	ND	ND	ND	ND	ND	ND	-
		09-21-94	ND	440 ⁷	ND	ND	ND	ND	ND	-
		12-21-94	ND	220 ⁷	ND	ND	ND	ND	ND	-
03-24-95	-	730 ⁷	-	-	-	-	-	-		
MW-3	MW-3	05-18-93	ND	ND	ND	ND	ND	ND	ND	ND
		08-25-93	ND	ND	ND	ND	ND	ND	ND	-
		11-23-93	ND	160 ⁵	1.4	1.2	ND	11	ND	-
		12-14-93 ⁸	130	13,000	ND	ND	ND	ND	ND	-
		02-25-94	ND	ND	ND	ND	ND	ND	ND	-
		05-25-94	ND	ND	ND	ND	ND	ND	ND	-

TABLE 2
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121 98th Avenue
Oakland, California

WELL NO.	SAMPLE NO.	Reporting Limit	TVPH ¹ AS GASOLINE	TEPH ² AS DIESEL	BENZENE ³	TOLUENE ³	ETHYLBENZENE ³	TOTAL XYLENES ³	OIL AND GREASE
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
			50	50	0.5	0.5	0.5	0.5	5
		DATE SAMPLED							
MW-3	MW-3	02-25-94	ND	ND	ND	ND	ND	ND	-
		05-25-94	ND	ND	ND	ND	ND	ND	-
		09-21-94	ND	ND	ND	ND	ND	ND	-
		12-21-94	ND	ND	ND	ND	ND	ND	-
		03-24-95	-	220 ⁶	-	-	-	-	-
		06-22-95	-	130 ⁶	-	-	-	-	-
MW-4	MW-4	09-21-94	ND	ND	ND	ND	ND	ND	-
		12-21-94	ND	ND	ND	ND	ND	ND	-
		03-24-95	ND	80 ⁶	ND	ND	ND	ND	-
		06-22-95	ND	60 ⁶	ND	ND	ND	ND	-

NOTES:

- ¹ TVPH = Total Volatile Petroleum Hydrocarbons as Gasoline in Aqueous Solutions (California DOHS Method).
- ² TEPH = Total Extractable Petroleum Hydrocarbons as Diesel in Aqueous Solutions (California DOHS Method); quantitated against a diesel standard, unless otherwise noted.
- ³ Benzene, toluene, ethylbenzene and total xylenes analyzed using EPA Method 8020.
- ⁴ ND = not detected at or above the laboratory method reporting limit listed at the top of the column.
- ⁵ - indicates not analyzed.
- ⁶ Surrogate recoveries were reported by the laboratory to be above control limits. This may have resulted in a positive bias in the data.
- ⁷ The laboratory noted that a single peak near C16 hydrocarbons was detected in this sample and assigned a concentration of 100 µg/L quantitated against a kerosene standard.
- ⁸ The laboratory noted that the sample chromatogram pattern does not resemble the pattern for a diesel standard.
- ⁹ Well MW-3 was resampled on December 14, 1993 to confirm the chemical analysis results of the sample collected on November 23, 1993.