Texaco Refining
and Marketing Inc

10 Universal City Plaza
Universal City CA 91608

93 AUG 18 PM 3:24

August 13, 1993

Ms. Susan Hugo
Alameda County Environmental
Health Department
80 Swan Way, Room 200
Oakland, CA 94621

Dear Ms. Hugo:

Enclosed is a copy of the well documentation letter report dated July 30, 1993, for the former Texaco and then Exxon service station facility that was located at 500 Grand Avenue in Oakland, California. This report documents the installation of monitoring wells MW-8K and MW-8L.

Please call me at (818) 505-2476 if you have any questions or wish to discuss the report further.

Very truly yours,
Texaco Refining and Marketing Inc.

Bob Robles
Environmental Coordinator

RR:rr

Enclosure

Mr. Rich Hiett
California Regional Water
Quality Control Board
San Francisco Bay Area Region
2101 Webster Street, Ste. 500
Oakland, CA 94612

RRZielinski-Richmond

pr:__

PACIFIC
ENVIRONMENTAL
GROUP, INC.

July 30, 1993
Project 340-34.20

Mr. Robert Robles
Texaco Refining and Marketing, Inc.
10 Universal City Plaza, Suite 724
Universal City, California 91608

Re: Former Texaco Service Station
500 Grand Avenue
Oakland, California

Dear Mr. Robles:

The following letter presented by Pacific Environmental Group, Inc. (PACIFIC) documents the installation of two groundwater monitoring wells at the site referenced above. Work was performed by PACIFIC at the request of Texaco Refining and Marketing (Texaco) in accordance with the requirements set by the Alameda County Environmental Health Department at a meeting held on April 30, 1993. The wells were installed to provide data that can be used to evaluate any health and safety concerns for the planned commercial use of the property, and to verify the effectiveness of removing over 2,400 cubic yards of hydrocarbon-impacted soils from the site.

Included in this letter is a brief discussion of the scope of work performed and findings of the groundwater analytical results. A discussion of the site description and history, previous investigations, and the regional hydrogeologic setting is contained in a letter prepared by PACIFIC on April 29, 1993.

Field and analytical procedures are described in Attachment A. Boring logs and well completion data are included as Attachment B. Certified analytical data and chain-of-custody documentation are included as Attachment C.

SCOPE OF WORK

As requested by Texaco, PACIFIC performed the following work in order to assess groundwater conditions following soil excavation activities, and prior to building construction.

- **Monitoring Well Installation.** Installed on-site groundwater Monitoring Wells MW-8K and MW-8L (Figure 2) on May 18, 1993. Well MW-8K was installed adjacent to former Well MW-8E which contained the highest hydrocarbon concentrations in groundwater of all previously sampled wells. Well MW-8L was installed in an area lateral to Well MW-8K and within the zone of influence define by historical total petroleum hydrocarbon contour data.

- **Well Development and Surveying.** Developed groundwater Monitoring Wells MW-8K and MW-8L on May 20 and 21, 1993. The wells are scheduled to be surveyed during the third quarter of 1993.

- **Groundwater Sampling and Analysis.** Sampled and analyzed groundwater from Wells MW-8K and MW-8L for total petroleum hydrocarbons calculated as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), total petroleum hydrocarbons calculated as diesel (TPH-d), and waste oil on May 20 and 21, 1993.

FINDINGS

Subsurface Conditions

Soils encountered during drilling were similar to the previous subsurface data with the exception of the fill material deposited on the site during April and May of 1992. Gravely clay fill material was encountered from the surface to a depth of approximately 6 to 10 feet bgs. The fill material was underlain by sandy and gravely clay in boring MW-8K, and by sandy clay and silty sand in boring MW-8L.

During drilling, groundwater was encountered and stabilized at depths of approximately 3 to 3-1/2 feet in Wells MW-8K and MW-8L. The groundwater elevation data collected on May 20, 1993 during well development and sampling activities indicated depth to groundwater for Well MW-8K was approximately 2 feet; and for Well MW-8L was approximately 5-1/2 feet. Boring logs and well completion data are included as Attachment B.

Organic Vapor Analysis

Organic vapor concentrations were measured in the field with an HNU photo-ionization detector. Organic vapor concentrations of greater than 100 parts per million were not noted in any soil samples collected during drilling. Soil vapor concentrations are noted on the boring logs in Attachment B.

Groundwater Analytical Results

Groundwater samples were collected from Wells MW-8K and MW-8L by PACIFIC on May 20 and 21, 1993. The samples were analyzed for TPH-g, TPH-d, waste oil, and BTEX compounds. TPH-g was detected at concentrations of [illegible] parts per billion (ppb) in Well MW-8K and 76 ppb in Well MW-8L. Benzene was detected at concentrations of 12 ppb in Well MW-8K and 1.1 ppb in Well MW-8L. TPH-d and waste oil were not detected. Certified analytical reports and chain-of-custody documentation are included in Attachment C.

If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

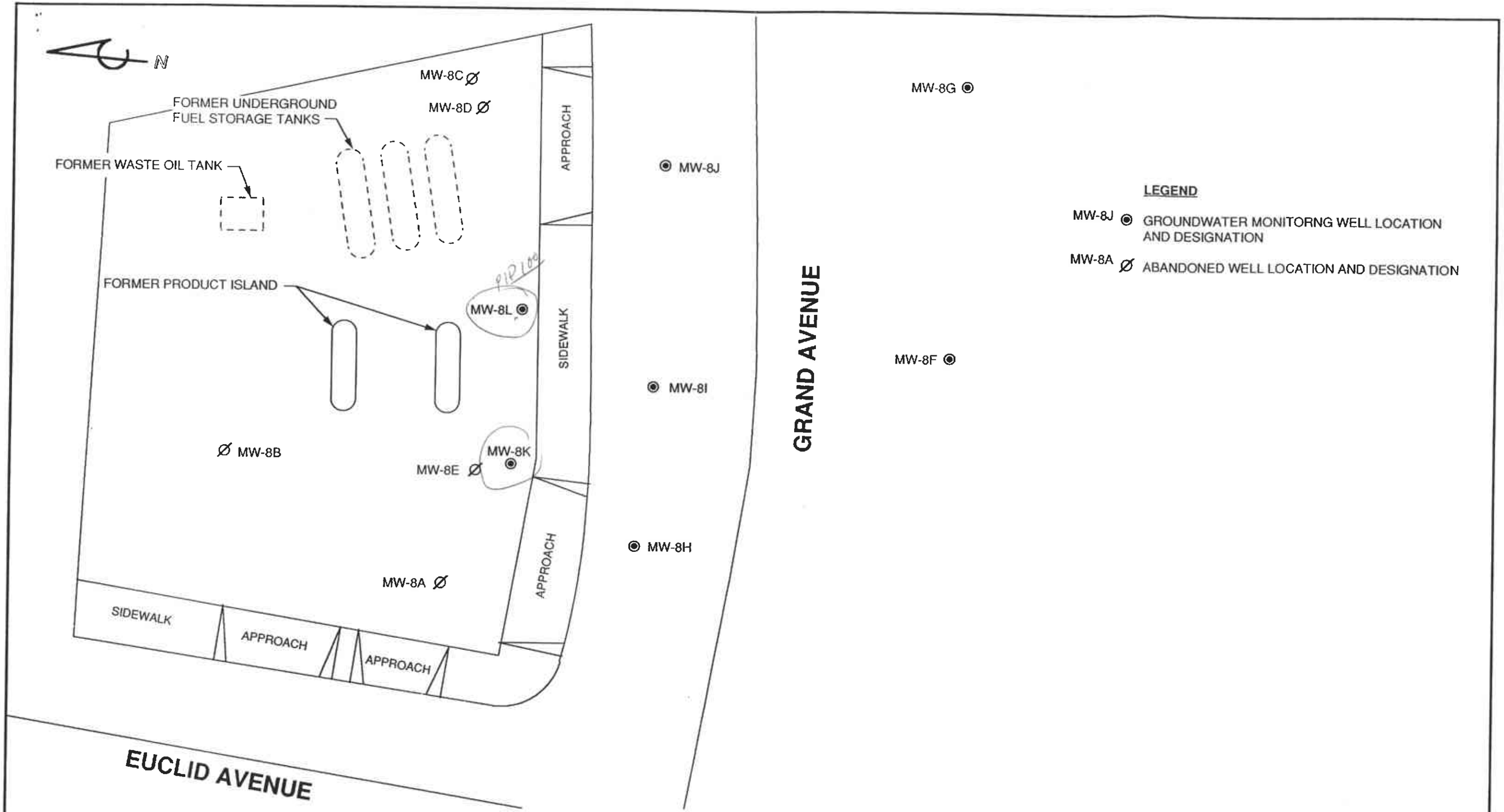
Lainie Demian
Staff Scientist

Steven E. Krcik
Senior Geologist
RG 4976

REGISTERED GEOLOGIST
STEVEN E. KRCIK
No. 4976
6/6/94
OF CALIFORNIA

Attachments: Figure 1 - Site Map
Attachment A - Field and Analytical Procedures
Attachment B - Boring Logs and Well Completion Data
Attachment C - Certified Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Richard Hiett, Regional Water Quality Control Board - S.F. Bay Region
Ms. Susan Hugo, Alameda County Environmental Health Department
Mr. Ron Zielinski, Texaco Refining and Marketing, Inc.



PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE
0 20 40 FEET

FORMER TEXACO STATION
500 Grand Avenue at Euclid Avenue
Oakland, California

SITE MAP

FIGURE
1
PROJECT:
340-34.20

ATTACHMENT A

FIELD AND ANALYTICAL PROCEDURES

ATTACHMENT A
FIELD AND ANALYTICAL PROCEDURES

Drilling and Well Construction Procedures

The soil borings for the groundwater monitoring wells were drilled using 8-inch diameter hollow-stem auger drilling equipment and were logged by a PACIFIC geologist using the Unified Soil Classification System and standard geologic techniques. Soil samples for logging and chemical analysis were collected at 5-foot minimum depth intervals by advancing a California-modified split-spoon sampler with brass liners into undisturbed soil beyond the tip of the auger. The sampler was driven a maximum of 18 inches using a 140-pound hammer with a 30-inch drop. Soil samples for chemical analysis were retained in brass liners, capped with Teflon sheets and plastic end caps, sealed with Teflon tape, and stored in clean zip lock bags. The samples were then placed on ice for transport to the laboratory, accompanied by chain-of-custody documentation. All down-hole drilling and sampling equipment was steam-cleaned following the completion of each soil boring. Down-hole sampling equipment was washed in a TSP solution between samples.

The soil borings were converted to groundwater monitoring wells by the installation of 2-inch diameter, Schedule 40 PVC casing with 0.020-inch factory slotted screen. Screen was placed from 18 feet to approximately 3 feet below ground surface. The annular space was packed with #3 sand across the entire screened interval, extending approximately 0.5 foot above the top of the screen. The well was then sealed with approximately 1 foot of bentonite above the sand pack, and neat cement to the ground surface. A locking, watertight cap and protective vault box were installed at the top of each well.

Organic Vapor Analysis Procedures

Soil samples collected in the field were analyzed using the HNU Model PI 101 photoionization detector with a 10.2 eV lamp. The test procedure involved measuring approximately 30 grams from an undisturbed soil sample, placing this sub-sample in a clean glass jar, and sealing the jar with aluminum foil secured under a ring-type

threaded lid. The jar was warmed for a minimum of 20 minutes, then the foil was pierced and the head-space within the jar tested for total organic vapor, measured in parts per million as benzene (ppm; volume/volume). The instrument was previously calibrated using a 100 ppm isobutylene standard (in air) and a sensitivity factor of 0.55 which relates the photo-ionization sensitivity of benzene to the sensitivity of isobutylene. The results of these tests were recorded on the boring logs.

Groundwater Well Development Procedures

A minimum of 10 casing volumes of groundwater was purged from each well during development. Initially a well was purged of sediment and debris. After the initial removal of debris, the well screen was surged at 2-foot intervals along the full screen length with a vented surge block. The sequence of surging and purging was repeated at least three times during the 10 casing evacuation. If the well dried out during the purging, deionized water was added to the well to complete purging and surging the well screen. During purging, the well was monitored for temperature, pH, EC, and turbidity. The well was considered "developed" when the temperature, pH, and EC parameters had stabilized.

Groundwater Sampling Procedures

The sampling procedure consisted of first measuring the water level in each well with an electronic water-level indicator, and checking each well for the presence of separate-phase hydrocarbons using a clear Teflon bailer or an oil-water interface probe. The wells were then purged of approximately four casing volumes of water (or until dry) using a bailer or centrifugal pump, during which time temperature, pH, and electrical conductivity were monitored to indicate that a representative sample was obtained. After purging, the water levels in the wells were allowed to restabilize. Groundwater samples were then collected using a Teflon bailer, placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to the laboratory.

Purgewater Disposal Procedures

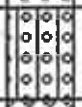
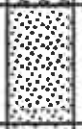
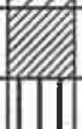
Water removed from the wells during the sampling event was placed in a 500-gallon water transportation trailer. Upon completion of the work on site, the purge water contained within the trailer was transported to Gibson Oil and Refining Company, Inc., Redwood City facility and injected into the treatment system.

Laboratory Analysis Procedures

Groundwater samples collected from site monitoring wells were analyzed for the presence of total petroleum hydrocarbons calculated as gasoline (TPH-g) as modified EPA Methods 8015 and 5030, for benzene, toluene, ethylbenzene and xylenes (BTEX) compounds by EPA Methods 8020, TPH diesel (TPH-d) by EPA Method 8015 and 3510, and for waste oil standard by Method 5520. The TPH-g and BTEX compound samples were examined using the purge and trap technique, with final detection by gas chromatography. The TPH-d samples were examined using the extraction technique with final detection determined by gas chromatography. The waste oil samples were examined using extraction Method 3550 with gravimetric determination. All analyses were performed by a state-certified laboratory.

ATTACHMENT B

BORING LOGS AND WELL COMPLETION DATA

Primary Divisions			Group Symbol	Graphic	Typical Names
COARSE GRAINED SOILS more than half is larger than #200 sieve	GRAVELS half of coarse fraction larger than #4 sieve	CLEAN GRAVELS (less than 5% fines)	GW		Well graded gravels, gravel-sand mixtures; little or no fines
			GP		Poorly graded gravels or gravel-sand mixtures; little or no fines
		GRAVEL WITH FINES	GM		Silty gravels, gravel-sand-silt mixtures
			GC		Clayey gravels, gravel-sand-clay mixtures
	SANDS half of coarse fraction smaller than #4 sieve	CLEAN SANDS (less than 5% fines)	SW		Well graded sands, gravelly sands, little or no fines
			SP		Poorly graded sands or gravelly sands; little or no fines
		SANDS WITH FINES	SM		Silty sands, sand-silt mixtures
			SC		Clayey sands, sand-clay mixtures, plastic fines
FINE GRAINED SOILS more than half is smaller than #200 sieve	SILTS AND CLAYS liquid limit less than 50%		ML		Inorganic silts and very fine sand, rock flour, silty or clayey fine sands or clayey silts, with slight plasticity
			CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL		Organic silts and organic silty clays of low plasticity
	SILTS AND CLAYS liquid limit more than 50%		MH		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
			CH		Inorganic clays of high plasticity, fat clays
			OH		Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS			Pt		Peat and other highly organic soils

PACIFIC ENVIRONMENTAL GROUP, INC.

Unified Soil Classification System

WELL LOG
KEY TO ABBREVIATIONS

Drilling Method

HSA - Hollow stem auger
CFA - Continous flight auger
Air - Reverse air circulation

Gravel Pack

CA - Coarse aquarium sand

Sampling Method

Cal. Mod. - California modified split-spoon sampler (2" inner diameter) driven 18" by a 140-pound hammer having a 30" drop. Where penetration resistance is designated "P", sampler was instead pushed by drill rig.
Disturbed - Sample taken from drill-return materials as they surfaced.
Shelby - Shelby Tube thin-walled sampler (3" diameter), where sampler is pushed by drill-rig.

Moisture Content

Dry - Dry
Dp - Damp
Mst - Moist
Wt - Wet
Sat - Saturated

Sorting

PS - Poorly sorted
MS - Moderately sorted
WS - Well sorted

Plasticity

L - Low
M - Moderate
H - High

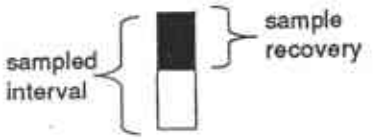
H-NU (ppm)

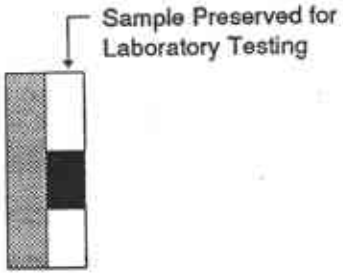
ND - No detection

Symbols

▽ - First encountered ground water

▼ - Static ground water level





Density (Blows/Foot - Cal Mod Sampler)

Sands and gravels

0 - 5	- Very Loose
5 - 13	- Loose
13 - 38	- Medium dense
38 - 63	- Dense
over 63	- Very dense

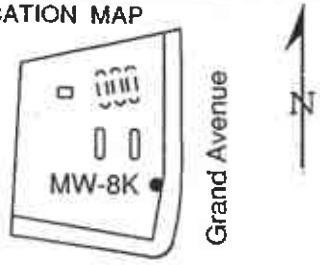
Silts and Clays

0 - 2	- Very Soft
2 - 4	- Soft
4 - 9	- Firm
9-17	- Stiff
17 - 37	- Very Stiff
37 - 72	- Hard
over 72	- Very Hard

GRAIN - SIZE SCALE

GRADE LIMITS U.S. Standard		GRADE NAME
inch	sieve size	
12.0		Boulders
3.0	3.0 in.	Cobbles
0.19	No. 4	Gravels
0.08	No. 10	coarse
	No. 40	medium Sand
	No. 200	fine
		Silt
		Clay Size

LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. [redacted]
PAGE 1 OF 1

PROJECT NO. 340-34.20
LOGGED BY: L.D.
DRILLER: WEST HAZMAT
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: #3 SAND

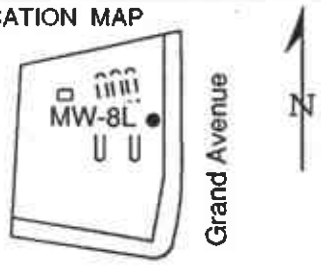
CLIENT: TEXACO
DATE DRILLED: 5-18-93
LOCATION: 500 Grand Avenue, Oakland
HOLE DIAMETER: 8"
HOLE DEPTH: 19.5'
WELL DIAMETER: [redacted]
WELL DEPTH: 18'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	SOIL TYPE	LITHOLOGY / REMARKS
NEAT CEMENT; BENTONITE; #3 SAND				0	GC	CLAYEY GRAVEL - FILL: dark gray; 30-40% clay; 10-15% sand; fine to coarse gravel; angular; no product odor.
	Sat	6	7	6		@15': as above; fill; loose; no product odor.
	Mst	3	27	10	CL	SANDY CLAY: olive brown; low plasticity; some silt; 15-25% fine to coarse sand; medium dense; no product odor.
	Mst	12	60	14	CL	GRAVELLY CLAY: brown; low plasticity; 25-35% coarse sand to gravel; dense; no product odor.
	Sat	2	32	18	SM	SILTY SAND: (1/4" found in the shoe of sampler); dark yellowish brown; some clay; 15-20% silt; fine sand; medium dense; no product odor.
				20		BOTTOM OF BORING AT 19.5'

RECOVERY; SAMPLE INTERVAL; GRAPHIC

22 24 26 28 30 32 34 36 38 40 42 44

LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-8L
PAGE 1 OF 1

PROJECT NO. 340-34.20
LOGGED BY: L.D.
DRILLER: WEST HAZMAT
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: #3 SAND

CLIENT: TEXACO
DATE DRILLED: 5-18-93
LOCATION: 500 Grand Avenue, Oakland
HOLE DIAMETER: 8"
HOLE DEPTH: 19.5'
WELL DIAMETER: 2"
WELL DEPTH: 18'
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY / SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
NEAT CEMENT, BENTONITE, #3 SAND				2			GC	CLAYEY GRAVEL - FILL: dark gray; 30-40% clay; 10-15% sand; fine to coarse gravel; angular; medium dense; faint product odor.
	Sat	100	24	6			CL	SANDY CLAY: olive brown; low plasticity; some silt; 15-25% fine to coarse sand; medium dense; faint product odor.
	Mst	20	50	10			SM	SILTY SAND: dark yellowish brown; some clay; 15-20% silt; fine sand; dense; no product odor.
	Mst	2	41	16				@15': as above; no product odor.
	Mst	0	49	18			CL	SANDY CLAY: light olive brown; iron oxide and manganese oxide; medium dense; no product odor.
				20				BOTTOM OF BORING AT 19.5'
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

ATTACHMENT C

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510 372-3700 • Fax (510) 372-6955

340-34.20\1342\012710

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 05-21-93
Date Received: 05-24-93
Date Analyzed: 06-01-93

Sample Number	Sample Description
053245	Project # 340-34.20 Texaco - Oakland 500 Grand Ave. MW-8L WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	[redacted]
Benzene	0.5	[redacted]
Toluene	0.5	<0.5
Xylenes	0.5	6.0
Ethylbenzene	0.5	<0.5

QA/QC: Duplicate Deviation is 6.6%

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510 372-3700 • Fax (510) 372-6955

340-34.20\1342\012710

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 05-20-93
Date Received: 05-24-93
Date Analyzed: 06-01-93

Sample Number	Sample Description
053246	Project # 340-34.20 Texaco - Oakland 500 Grand Ave. MW-8K WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	[illegible]
Benzene	0.5	12
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

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Phone (510 372-3700 • Fax (510) 372-6955

340-34.20\1342\012710

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 05-20-93
Date Received: 05-24-93
Date Analyzed: 06-01-93

Sample Number	Sample Description
053247	Project # 340-34.20 Texaco - Oakland 500 Grand Ave. TB WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510 372-3700 • Fax (510) 372-6955

340-34.20\1342\012710

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 05-21-93
Date Received: 05-24-93
Date Analyzed: 06-01-93

Sample Number	Sample Description
053245B	Project # 340-34.20 Texaco - Oakland 500 Grand Ave. DI-1 WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510 372-3700 • Fax (510) 372-6955

340-34.20\1428\012710

Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 05-21-93
Date Received: 05-24-93
Date Analyzed: 05-25-93

Sample Number	Sample Description	Detection Limit	WATER Total Petroleum Hydrocarbons as Diesel
		ppb	ppb
	Texaco - Oakland 500 Grand Avenue Project No.: 340-34.20		
053245	MW-8L	50	<50
053246	MW-8K	50	<50

QA/QC: Spike Recovery on 053245 is 91%
Duplicate Deviation on 053245 is 4.8%

Note: Analysis was performed using EPA method 3510 and TPH LUFT.
(ppb) = (µg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

5011 Blum Road, Suite 1 • Martinez, CA 94553
Phone (510 372-3700 • Fax (510) 372-6955

340-34.20\1223\012710

Pacific Environmental Group
2025 Gateway Place, #440
San Jose, CA 95110
Attn: Maree Doden
Pacific Contact

Date Sampled: 05-21-93
Date Received: 05-24-93
Date Analyzed: 06-02-93

Sample Number	Sample Description	Detection Limit ppm	WATER Gravimetric Waste Oil as Petroleum Oil ppm
		Project # 340-34.20 Texaco - Oakland 500 Grand Ave.	
053245	MW-8L	50	<50
053246	MW-8K	50	<50

Note: Analysis was performed using EPA extraction method 3550 with Trichlorotrifluoroethane as solvent, and gravimetric determination by standard methods 5520
(ppm) = (mg/L)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 340-34.20

Facility No. TEXACO | Facility Address: 500 GRAND AVE OAKLAND | Billing Refence Number:

CLIENT engineer: ~~KARL DETTLEMAN~~ BOB ROBLES | PACIFIC Point of Contact: M. DODEN | Sampler: C. GRAVES | Laboratory Name: Mobile Chem

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix (W=water S=soil A=air)	Type (G=grab D=disc. C=comp.)	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dissvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Comments:
MW8L	2	40mL	HCl	W	G	5/21/93	15:30	✓							ANALYZE DI-1 FOR G/BTEX ONLY IF MW8L HAS HITS IN G/BTEX
MW 8L	2	1L	NP	W	G	5/21/93	1530		✓						
MW 8L	2	1L	H_2SO_4	W	G	5/21/93	1530			✓					
DI-1 Hold	3	40mL	HCl	W	G	5/21/93	1400	✓	Hold						
MW 8K (14')	2	40mL	HCl	W	G	5-20-93	10:20	✓							
↓	2	1L	H_2SO_4	W	G	5-20-93	1020			✓					
↓	5	40mL	HCl	W	G	5-20-93	1100		✓						
TB	2	40mL	HCl	W	G	5-20-93	NA	✓							

Condition of Sample: ON ICE NO Head Space

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
Charles M. Grimes	5/24/93	1245			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by laboratory: DAVE LEWIN	Date	Time: 5-24-93 12:45

Mail original Analytical Report to:
Pacific Environmental Group
- 2025 Gateway Place #440, San Jose, CA 95110 ☑
- 620 Contra Costa Blvd. #209, Pleasant Hill, CA 94523 ☐
- 25725 Jeronimo Rd. #576C, Mission Viejo, CA 92622 ☐
- 4020 148th Ave NE #B, Redmond, WA 98052 ☐

Turnaround Time:
- Priority Rush (1 day) ☐
- Rush (2 days) ☐
- Expedited (5 days) ☐
- Standard (10 days) ☐
- As Contracted ☑

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 340-34.20

Facility No. TEXACO | Facility Address: 500 GRAND AVE OAKLAND | Billing Refence Number:

CLIENT engineer: ~~KARL DETTERMAN~~ BOB ROBLES | PACIFIC Point of Contact: M. DODEN | Sampler: C. GRAVES | Laboratory Name: Mobile Chem

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix (W=water, S=soil, A=air)	Type (G=grab, D=disc., C=comp.)	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dis/vd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Comments:
MW8L	2	40ml	HCl	W	G	5/21/93	15:30	✓							ANALYZE DI-1 FOR G/BTEX ONLY IF MW8L HAS HITS IN G/BTEX
MW8L	2	1L	NP	W	G	5/21/93	1530		✓						
MW8L	2	1L	H_2SO_4	W	G	5/21/93	1530			✓					
DI-1 Hold	3	40ml	HCl	W	G	5/21/93	1400	✓	Hold			-			
MW8K (14')	2	40mL	HCl	W	G	5-20-93	10:20	✓							
↓	2	1L	H_2SO_4	W	G	5-20-93	1020			✓					
↓	5	40ml	HCl	W	G	5-20-93	1100		✓						
TB	2	40ml	HCl	W	G	5-20-93	NA	✓							

Condition of Sample: ON ICE NO head space

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
Charlotte Dunn	5/24/93	1245			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by laboratory: Dave Levin	Date	Time: 5/24/93 12:45

Mail original Analytical Report to:

Pacific Environmental Group
- 2025 Gateway Place #440, San Jose, CA 95110 ✓
- 620 Contra Costa Blvd. #209, Pleasant Hill, CA 94523
- 25725 Jeronimo Rd. #576C, Mission Viejo, CA 92622
- 4020 148th Ave NE #B, Redmond, WA 98052

Turnaround Time:
- Priority Rush (1 day)
- Rush (2 days)
- Expedited (5 days)
- Standard (10 days)
- As Contracted ✓