



Texaco Refining
and Marketing Inc

10 Universal City Plaza
Universal City CA 91608

June 11, 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 our quarterly technical letter report dated April 26, 1993, for the former Texaco and then Exxon service station facility that was located at 500 Grand Avenue in Oakland, California. In addition, I have inclosed well closure documents for the two onsite wells we recently removed, MW-8B and MW-8C. The installation report for the two additional wells is now being completed and show be available within three weeks. ✓

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.

May 6, 1993
Project 340-34.01
TES Job No. TRR251

Mr. Bob Robles
Texaco Refining and Marketing, Inc.
10 Universal City Plaza, 7th Floor
Universal City, California 91608

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

Dear Mr. Robles:

This letter by Pacific Environmental Group, Inc. (PACIFIC) documents the abandonment of Wells MW-8B and MW-8C at the site referenced above. Work was performed by West Hazmat Drilling Corporation, and observed by a representative of PACIFIC, on April 1, 1993.

Well destruction permits were obtained from the Alameda County Flood Control and Water Conservation District Zone 7 Water Agency prior to well abandonment (Attachment A). The Zone Water Agency verbally authorized work to proceed without a site inspector. The wells were abandoned utilizing 8- and 10-inch hollow stem augers. The well casing, sand pack, and annular seal were removed from each well by overdrilling to the total depth of each well. The boreholes were then filled with neat cement poured through a hollow stem auger.

Please do not hesitate to call with any questions you may have.

Sincerely,

Pacific Environmental Group, Inc.

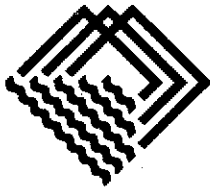


Lainie Demian
Project Scientist



Steven E. Krcik
Senior Geologist
RG 4976

Attachment: Well Destruction Permits



PACIFIC
ENVIRONMENTAL
GROUP, INC.

April 26, 1993
Project 340-34.01

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

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

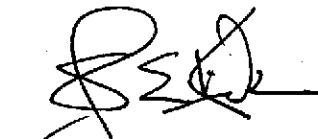
Dear Mr. Robles:

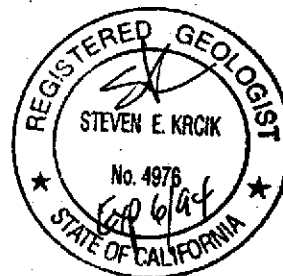
This letter presents the results of the first quarter 1993 groundwater sampling and analytical event conducted by Resna Industries, Inc. on February 12, 1993 at the above referenced site (Figures 1 and 2). Groundwater elevation data are presented in Table 1 and groundwater analytical data are presented on Table 2. The certified analytical report and chain-of-custody documentation are presented as Attachment A. The well purge data sheets are presented as Attachment B.

If you have any questions regarding the contents of this letter, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.


Steven E. Krcik
Senior Geologist
RG 4976



ATTACHMENT A
WELL DESTRUCTION PERMITS



ZONE 7 WATER AGENCY

340-34.01

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

Wells MW-8 B
+ MW-8C

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 500 Grand Ave @ Euclid
Oakland, Ca

PERMIT NUMBER 93134
LOCATION NUMBER 1S/3W 25080 and 25081

CLIENT
Name TEXACO
Address 108 Cutting Bl Voice _____
City Richmond Zip 94804

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name Pacific Environmental Group, Inc
Address 2025 Gateway Pl. Fax _____
440 Voice _____
City San Jose Zip 95110

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection _____	General _____
Water Supply _____	Contamination _____
Monitoring _____	Well Destruction <u>X</u>

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

Domestic _____ Industrial _____ Other _____
Municipal _____ Irrigation _____

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:

Mud Rotary _____ Air Rotary _____ Auger ✓
Cable _____ Other _____

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. C57-554979

E. WELL DESTRUCTION. See attached.

WELL PROJECTS

Drill Hole Diameter _____ in.	Maximum _____
Casing Diameter _____ in.	Depth _____ ft.
Surface Seal Depth _____ ft.	Number _____

GEOTECHNICAL PROJECTS

Number of Borings _____	Maximum _____
Hole Diameter _____ in.	Depth _____ ft.

ESTIMATED STARTING DATE 3/19
ESTIMATED COMPLETION DATE 3/19/93

Approved Wyman Hong Date 17 Mar 93

Wyman Hong

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE R. B. ... Date 3-12-93

18 March 1993

ZONE 7
WATER RESOURCES ENGINEERING
DRILLING ORDINANCE

TEXACO
500 GRAND AVENUE
OAKLAND
WELLS 1S/3W 15Q80 AND 25Q81,
PERMIT 93134

Destruction Requirements:

- 1 Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.
2. Using a tremie pipe, fill the hole to 2 feet below the lower of finished grade or original ground with neat cement.
3. After seal has set, backfill the remaining hole with compacted material.

These destruction requirements as proposed by Rhonda Barrick of Pacific Environmental meet or exceed the Zone 7 minimum requirements.

Attachments: **Table 1 - Groundwater Elevation Data**
 Table 2 - Groundwater Analytical Data - Total Petroleum
 Hydrocarbons (TPH as Gasoline, BTEX Compounds,
 TPH as Diesel, and TPH as Other)
 Figure 1- Groundwater Elevation Contour Map
 Figure 2- TPH-Gasoline/Benzene Concentration Map
 Attachment A - Certified Analytical Report and
 Chain-of-Custody Documentation
 Attachment B - Well Purge Data Sheets

cc: Mr. Ron Zielinski, Texaco Refining and Marketing, Inc.

Table 1
Groundwater Elevation Data

Former Texaco Service Station
500 Grand Avenue at Euclid Avenue
Oakland, California

Number	Date Gauged	Well Elevation*	Depth to Water (feet, TOC)	Groundwater Elevation*	
MW-8A	03/29/91	99.72	2.32	97.40	
	04/23/91		2.31	97.41	
	06/10/91		2.82	96.90	
	06/28/91		2.53	97.19	
	07/23/91		2.35	97.37	
	08/22/91		2.68	97.04	
	10/03/91		2.46	97.26	
	10/24/91		2.53	97.19	
	11/26/91		3.03	96.69	
	12/30/91		2.28	97.44	
	01/23/92		2.57	97.15	
	02/28/92		2.48	97.24	
	03/26/92		2.13	97.59	
	04/30/92		2.10	97.62	
	08/03/92		----- Well Abandoned -----		
	MW-8B		03/29/91	101.11	0.26
04/23/91		0.31	100.80		
06/10/91		0.42	100.69		
06/28/91		0.41	100.70		
07/23/91		0.52	100.59		
08/22/91		0.62	100.49		
10/03/91		0.52	100.59		
10/24/91		0.62	100.49		
11/26/91		0.73	100.38		
12/30/91		0.30	100.81		
01/23/92		0.54	100.57		
02/28/92		0.29	100.82		
03/26/92		0.07	101.04		
04/30/92		0.60	100.51		
09/28/92	----- Not Monitored -----				
11/19/92	----- Not Monitored -----				
02/12/93	----- Not Monitored -----				

Table 1 (continued)
Groundwater Elevation Data

Former Texaco Service Station
500 Grand Avenue at Euclid Avenue
Oakland, California

Number	Date Gauged	Well Elevation*	Depth to Water (feet, TOC)	Groundwater Elevation*
MW-8C	03/29/91	98.41	6.47	91.94
	04/23/91		6.67	91.74
	06/10/91		8.08	90.33
	06/28/91		7.36	91.05
	07/23/91		7.37	91.04
	08/22/91		8.79	89.62
	10/03/91		7.93	90.48
	10/24/91		7.68	90.73
	11/26/91		7.59	90.82
	12/30/91		7.15	91.26
	01/23/92		6.88	91.53
	02/28/92		6.69	91.72
	03/26/92		6.69	91.72
	04/30/92		5.90	92.51
	09/28/92		----- Not Monitored -----	-----
	11/19/92		----- Not Monitored -----	-----
	02/12/93		----- Not Monitored -----	-----
MW-8E	03/29/91	99.38	3.28	96.10
	04/23/91		3.02	96.36
	06/10/91		3.08	96.30
	06/28/91		3.25	96.13
	07/23/91		3.24	96.14
	08/22/91		3.48	95.90
	10/03/91		3.32	96.06
	10/24/91		3.45	95.93
	11/26/91		3.34	96.04
	12/30/91		3.53	95.85
	01/23/92		3.57	95.81
	02/28/92		3.35	96.03
	03/26/92		3.01	96.37
	04/30/92		3.76	95.62
08/03/92	----- Well Abandoned -----	-----		

Table 1 (continued)
Groundwater Elevation Data

Former Texaco Service Station
500 Grand Avenue at Euclid Avenue
Oakland, California

Number	Date Gauged	Well Elevation*	Depth to Water (feet, TOC)	Groundwater Elevation*
MW-8F	03/29/91	97.94	8.59	89.35
	04/23/91		8.85	89.09
	06/10/91		9.58	88.36
	06/28/91		9.48	88.46
	07/23/91		9.79	88.15
	08/22/91		11.44	86.50
	10/03/91		11.58	86.36
	10/24/91		11.75	86.19
	11/26/91		11.63	86.31
	12/30/91		10.51	87.43
	01/23/92		10.24	87.70
	02/28/92		9.93	88.01
	03/26/92		8.78	89.16
	04/30/92		9.36	88.58
	09/28/92		11.83	86.11
	11/19/92		11.22	86.72
02/12/93			9.66	88.28
MW-8G	03/29/91	----- Well Inaccessible -----		
	04/23/91	97.24	9.44	87.80
	06/10/91		10.29	86.95
	06/28/91		10.30	86.94
	07/23/91		10.74	86.50
	08/22/91		12.56	84.68
	10/03/91		13.09	84.15
	10/24/91		13.42	83.82
	11/26/91		13.02	84.22
	12/30/91		11.94	85.30
	01/23/92		11.30	85.94
	02/28/92		10.83	86.41
	03/26/92		9.20	88.04
	04/30/92		9.00	88.24
09/28/92		13.32	83.92	
11/19/92	----- Well Inaccessible -----			
02/12/93	----- Well Inaccessible -----			

Table 1 (continued)
Groundwater Elevation Data

Former Texaco Service Station
500 Grand Avenue at Euclid Avenue
Oakland, California

Number	Date Gauged	Well Elevation*	Depth to Water (feet, TOC)	Groundwater Elevation*	
MW-8H	03/29/91	98.90	3.70	95.20	
	04/23/91		6.03	92.87	
	06/10/91		3.68	95.22	
	06/28/91		3.83	95.07	
	07/23/91		3.85	95.05	
	08/22/91		3.80	95.10	
	10/03/91		3.79	95.11	
	10/24/91		4.02	94.88	
	11/26/91		3.88	95.02	
	12/30/91		3.84	95.06	
	01/23/92		3.74	95.16	
	02/28/92		4.44	94.46	
	03/26/92		4.21	94.69	
	04/30/92		3.46	95.44	
	09/28/92		----- Well Inaccessible -----		
	11/19/92		3.75	95.15	
	02/12/93		4.12	94.78	
MW-8I	03/29/91	98.27	6.15	92.12	
	04/23/91		6.29	91.98	
	06/10/91		6.11	92.16	
	06/28/91		6.30	91.97	
	07/23/91		6.41	91.86	
	08/22/91		6.44	91.83	
	10/03/91		6.47	91.80	
	10/24/91		6.57	91.70	
	11/26/91		6.58	91.69	
	12/30/91		6.41	91.86	
	01/23/92		6.33	91.94	
	02/28/92		6.55	91.72	
	03/26/92		6.45	91.82	
	04/30/92		6.48	91.79	
	09/28/92		----- Well Inaccessible -----		
	11/19/92		6.37	91.90	
	02/12/93		6.44	91.83	

Table 1 (continued)
Groundwater Elevation Data

Former Texaco Service Station
500 Grand Avenue at Euclid Avenue
Oakland, California

Number	Date Gauged	Well Elevation*	Depth to Water (feet, TOC)	Groundwater Elevation*	
MW-8J	03/29/91	97.69	5.71	91.98	
	04/23/91		3.81	93.88	
	06/10/91		6.17	91.52	
	06/28/91		6.31	91.38	
	07/23/91		6.67	91.02	
	08/22/91		6.75	90.94	
	10/03/91		6.77	90.92	
	10/24/91		6.88	90.81	
	11/26/91		6.59	91.10	
	12/30/91		6.41	91.28	
	01/23/92		6.31	91.38	
	02/28/92		6.28	91.41	
	03/26/92		6.20	91.49	
	04/30/92		6.48	91.21	
	09/28/92	----- Well Inaccessible -----			
	11/19/92		6.55	91.14	
02/12/93		7.46	90.23		

MSL = Mean sea level
TOC = Top of casing
* Relative to arbitrary datum of 100 feet.

Table 2
 Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Former Texaco Service Station
 500 Grand Avenue at Euclid Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Other* (ppb)
MW-8A	06/14/88	NA	<0.5	1.5	<2	6.6	NA	NA
	10/25/88	NA	<0.5	<1	<2	<1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3	NA	NA
	11/29/89	<50	<0.5	1.0	<0.5	<0.5	1,200	<50
	01/24/90	<100	<0.5	<0.5	<0.5	<0.5	NA	2,800
	04/26/90	<2,500	<0.5	<0.5	<0.5	<0.5	<50	890
	07/26/90	<50	6.0	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	<50	130
	04/23/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	07/23/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	10/24/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	<0.5	<0.5	<0.5	<0.5	700	NA
	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	08/03/92	----- Well Abandoned -----						
MW-8B	06/14/88	NA	<0.5	<1	<2	<1	NA	NA
	10/21/88	NA	<0.5	<1	<2	3.1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3	NA	NA
	11/29/89	<50	<0.5	<0.5	<0.5	<0.5	<50	380
	01/24/90	<100	<0.5	<0.5	<0.5	<0.5	NA	350
	04/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	110
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	<50	180
	04/23/91	<50	8.4	2.5	<0.5	5.1	<50	<500
	07/23/91	<50	<0.5	1.1	<0.5	2.0	<50	<500
	10/24/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	<0.5	<0.5	<0.5	<0.5	550	NA
	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	09/28/92	----- Not Sampled -----						
11/19/92	----- Not Sampled -----							
02/12/93	----- Not Sampled -----							

Table 2 (continued)
 Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Former Texaco Service Station
 500 Grand Avenue at Euclid Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Other* (ppb)
MW-8C	06/14/88	NA	5.3	3.5	2.6	13.0	NA	NA
	10/21/88	NA	<0.5	<1	<2	<1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3.0	NA	NA
	11/29/89	<50	<0.5	<0.5	<0.5	<0.5	<50	190
	01/24/90	<100	0.9	<0.5	<0.5	<0.5	NA	480
	04/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	160
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	76	110
	04/23/91	800	12	25	3.7	19	<50	<500
	07/23/91	<50	<0.5	0.6	<0.5	<0.5	<50	<500
	10/24/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	1.2	<0.5	<0.5	<0.5	840	NA
	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	150	<500
	09/28/92	----- Not Sampled -----						
11/19/92	----- Not Sampled -----							
02/12/93	----- Not Sampled -----							
MW-8E	10/25/88	NA	1,400	510	2.9	420	NA	NA
	09/28/89	22,000	5,600	3,100	<500	<3,000	NA	NA
	11/29/89	15,000	4,900	2,600	<250	1,490	6,800	<50
	01/24/90	36,000	10,100	3,340	540	1,790	NA	4,900
	04/26/90	48,000	11,000	5,700	840	2,800	1,400	<50
	07/26/90	56,000	15,000	6,200	520	4,700	<50	<50
	10/18/90	15,000	1,500	1,300	170	1,800	620	<50
	01/08/91	51,000	14,000	5,400	860	1,700	17,000	520
	04/23/91	50,000	19,000	6,100	750	4,100	4,800	<500
	07/23/91	47,000	16,000	5,400	1,100	4,000	3,500	<500
	10/24/91	40,000	19,000	6,100	1,100	4,900	9,400	<500
	01/23/92	38,000	3,800	2,800	610	4,800	9,800	NA
	04/23/92	41,000	20,000	3,700	500	3,900	9,600	<500
08/03/92	----- Well Abandoned -----							

Table 2 (continued)
 Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Former Texaco Service Station
 500 Grand Avenue at Euclid Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Other* (ppb)
MW-8F	04/14/88	NA	<0.5	<1	<2	<1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3.0	NA	NA
	11/29/89	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/24/90	<100	<0.5	<0.5	<0.5	<0.5	NA	<300
	04/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	110
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	360	<50
	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	380	620
	04/23/91	<50	5.9	3.1	<0.5	2.7	1,400	3,200
	07/23/91	<50	<0.5	0.8	<0.5	<0.5	60	<500
	10/24/91	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	4.0	1.3	<0.5	1.9	1,300	NA
	04/30/92	<50	<0.5	<0.5	<0.5	<0.5	<50	<500
	09/28/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
11/19/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
02/12/93	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	
MW-8G	04/14/88	NA	<0.5	<1	<2	<1	NA	NA
	09/28/89	<50	<0.5	<0.5	<0.5	<3.0	NA	NA
	11/29/89	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	01/24/90	<100	<0.5	<0.5	<0.5	<0.5	NA	650
	04/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	120
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	10/18/90	<50	<0.5	<0.5	<0.5	<0.5	460	<50
	01/08/91	<30	<0.3	<0.3	<0.3	<0.3	220	260
	04/23/91	<50	0.9	0.9	<0.5	<0.5	1,100	<500
	07/23/91	<50	0.5	1.5	<0.5	3.0	<50	<500
	10/24/91	<50	0.6	<0.5	<0.5	<0.5	NA	NA
	01/24/92	<50	<0.5	<0.5	<0.5	<0.5	980	NA
	04/30/92	<50	1.7	<0.5	<0.5	<0.5	<50	<500
	09/28/92	----- Well Dry -----						
11/19/92	----- Well Inaccessible -----							
02/12/93	----- Well Inaccessible -----							

Table 2 (continued)
 Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Former Texaco Service Station
 500 Grand Avenue at Euclid Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Other* (ppb)	
MW-8H	01/24/90	460	14.8	14.8	10.8	38.8	NA	<300	
	04/26/90	830	67	19	43	64	<50	820	
	07/26/90	190	45	1.3	12	8.2	<50	<50	
	10/18/90	300	17	2.5	14	8.5	<50	<50	
	01/08/91	320	12	2.2	6.4	4.0	180	89	
	04/23/91	<50	1.5	<0.5	<0.5	<0.5	730	<500	
	07/23/91	270	21	1.8	9.7	2.6	<50	<500	
	10/24/91	120	7.6	1.0	3.5	2.4	70	<500	
	01/23/92	110	7.2	1.2	4.7	3.2	<60	NA	
	04/30/92	190	11	1.5	5.6	3.6	90	<500	
	09/28/92	----- Well Inaccessible -----							
	11/19/92	130	6.8	<0.5	1.1	1.5	NA	NA	
	02/12/93	73	5.9	<0.5	0.8	<0.5	NA	NA	
MW-8I	01/24/90	580	116	2.9	13	30.5	NA	440	
	04/26/90	4,400	2,400	100	230	350	<50	1,400	
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50	
	10/18/90	530	92	4.1	37	21	<50	<50	
	01/08/91	1,300	500	4.3	36	26	710	210	
	04/23/91	1,500	1,600	17	100	86	1,100	900	
	07/23/91	1,700	1,600	30	140	63	260	<500	
	10/25/91	760	470	6.0	76	13	230	<500	
	01/23/92	820	420	7.2	27	20	210	NA	
	04/30/92	2,200	1,800	19	180	25	430	<500	
	09/28/92	----- Well Inaccessible -----							
	11/19/92	720	120	1.1	29	13	NA	NA	
	02/12/93	4,000	970	9.2	52	36	NA	NA	
MW-8J	01/24/90	<100	2.7	<0.5	1	2.6	NA	<300	
	04/26/90	160	28	7.7	19	24	<50	320	
	07/26/90	<50	<0.5	<0.5	<0.5	<0.5	<50	<50	
	10/18/90	<50	8.3	<0.5	2.6	1.5	<50	<50	
	01/08/91	71	0.41	<0.3	<0.3	0.52	<50	69	
	04/23/91	300	16	2.2	9.3	4.6	550	<500	
	07/23/91	<50	4.6	<0.5	3.1	<0.5	<50	<500	

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and TPH as Other*)

Former Texaco Service Station
 500 Grand Avenue at Euclid Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	TPH as Other* (ppb)
MW-8J (cont.)	10/24/91	<50	0.8	<0.5	<0.5	<0.5	<50	<500
	01/23/92	<50	0.8	<0.5	<0.5	<0.5	<50	NA
	04/30/92	<50	2.3	<0.5	<0.5	<0.5	<50	<500
	09/28/92	----- Well Inaccessible -----						
	11/19/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	02/12/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
OB-3	11/06/89	4,000	420	8	6	64	NA	NA
	04/26/90	1,000	160	19	5	8.6	3,200	<50
	07/26/90	68	<0.5	<0.5	<0.5	0.9	1,200	<50
	10/18/90	3,200	260	69	35	490	2,100	<50
OB-4	11/06/89	4,000	500	11	10	24	NA	NA
	04/26/90	460	360	10	10	18	3,900	<50
	07/26/90	200	23	3.7	1.6	5.9	1,600	<50
	10/18/90	4,300	600	540	83	840	330	<50

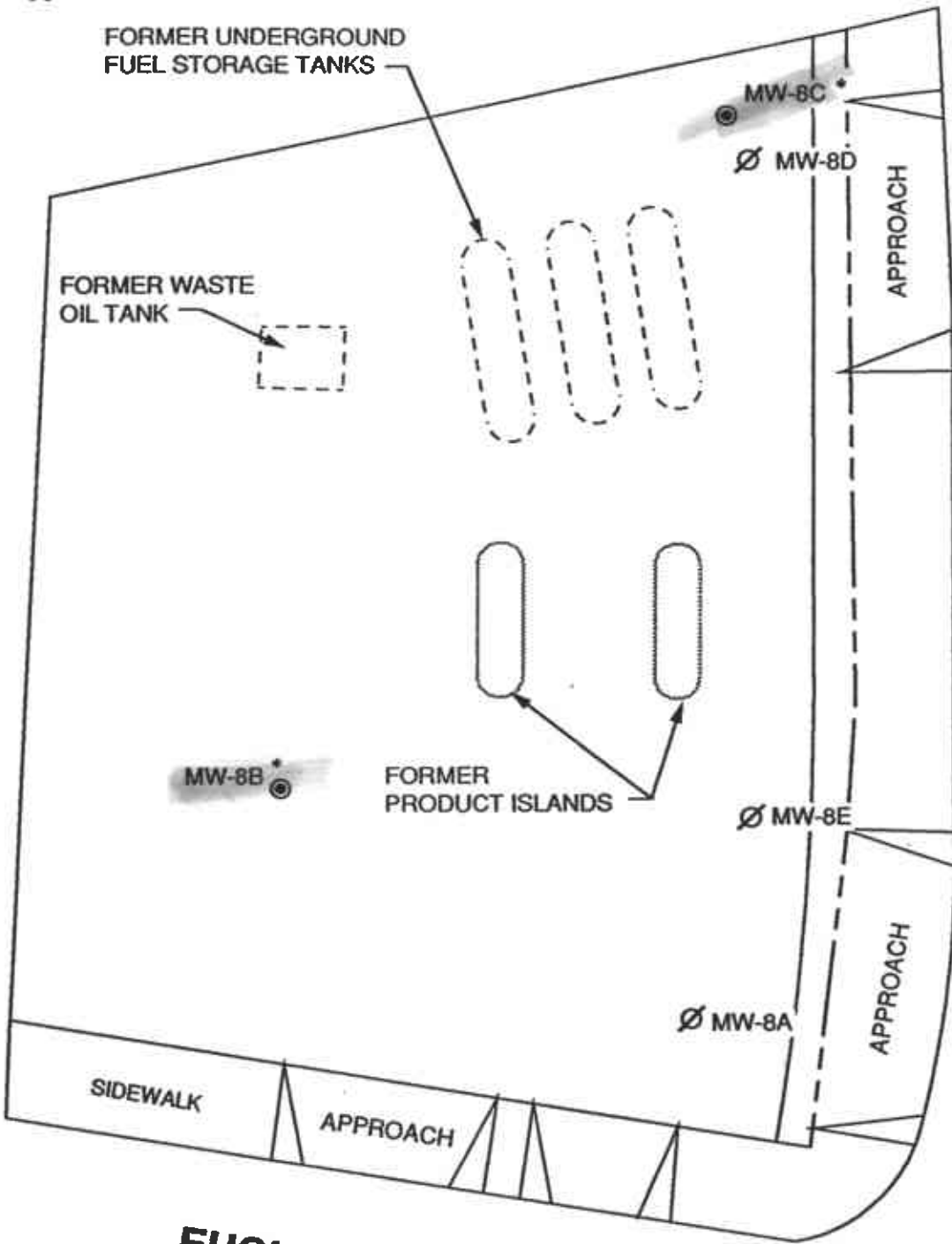
NA = Not analyzed/sample not collected
 ppb = parts per billion
 * = Includes "heavy" petroleum hydrocarbons such as waste oil, mineral spirits, jet fuel, or fuel oil.



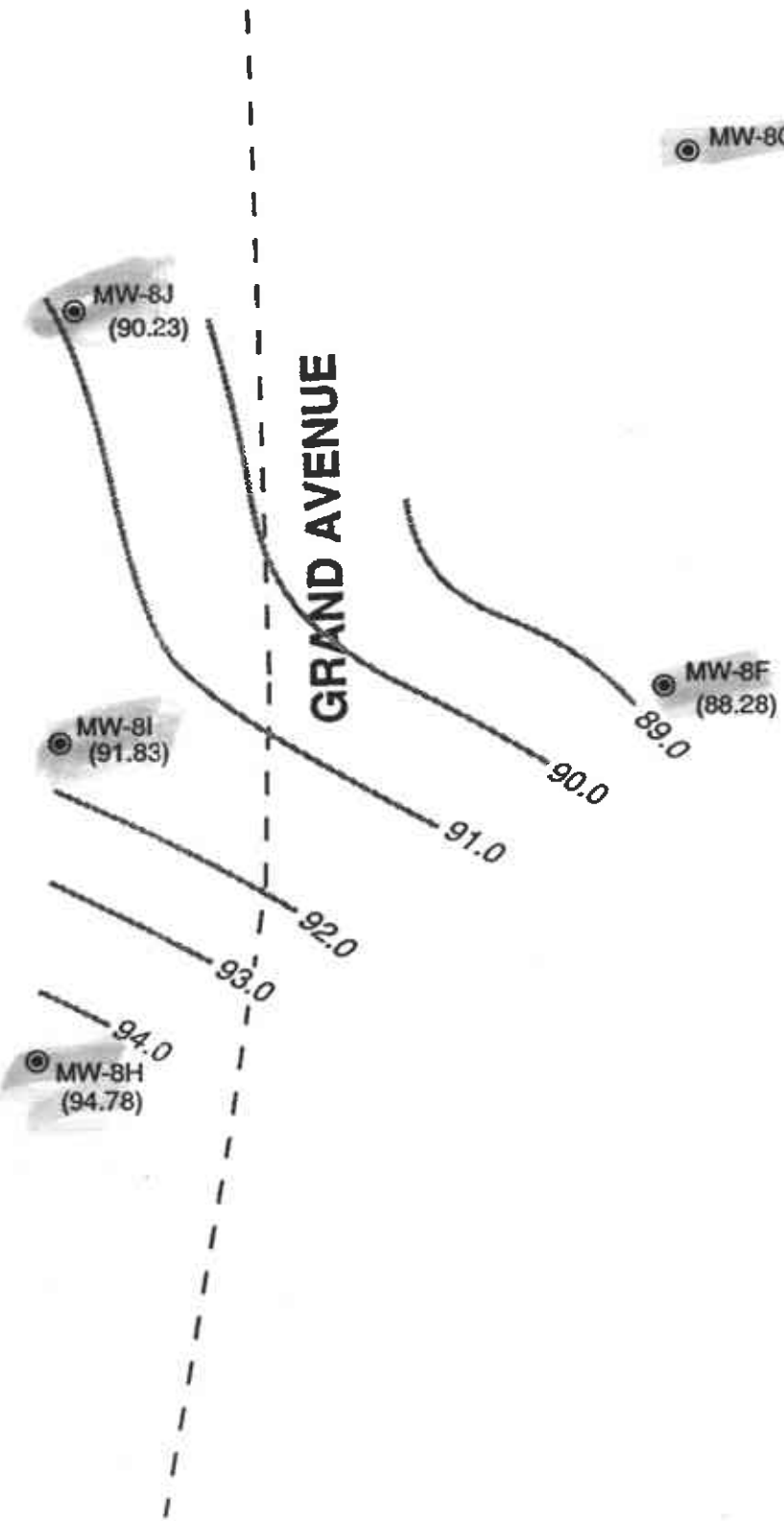
FORMER UNDERGROUND FUEL STORAGE TANKS

FORMER WASTE OIL TANK

FORMER PRODUCT ISLANDS



EUCLID AVENUE



LEGEND

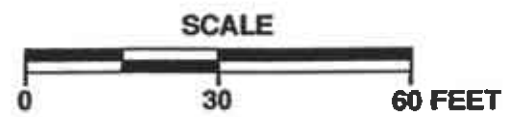
- MW-8C ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- MW-8D ∅ ABANDONED WELL LOCATION AND DESIGNATION
- (88.28) GROUNDWATER ELEVATION IN FEET - MSL, 2-12-93
- 89.0 — GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 2-12-93
- * WELL NOT MEASURED
- † WELL INACCESSIBLE



APPROXIMATE DIRECTION OF GROUNDWATER FLOW
APPROXIMATE GRADIENT = 0.05



PACIFIC ENVIRONMENTAL GROUP, INC.



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

GROUNDWATER ELEVATION CONTOUR MAP

FIGURE: 1
PROJECT: 340-34.01



FORMER UNDERGROUND FUEL STORAGE TANKS

FORMER WASTE OIL TANK

FORMER PRODUCT ISLANDS

MW-8C*

Ø MW-8D

MW-8B*

Ø MW-8E

Ø MW-8A

APPROACH

APPROACH

SIDEWALK

APPROACH

EUCLID AVENUE

GRAND AVENUE

MW-8J
ND/ND

MW-8I
4,000

MW-8H
73/5.9

MW-8G†

MW-8F
ND/ND

LEGEND

MW-8C ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

MW-8D Ø ABANDONED WELL LOCATION AND DESIGNATION

73/5.9 TPH-GASOLINE/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER MILLION, 2-12-93

ND NON-DETECTABLE LEVELS

* WELL NOT MONITORED

† WELL INACCESSIBLE



APPROXIMATE DIRECTION OF GROUNDWATER FLOW



PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE



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

TPH-GASOLINE/BENZENE CONCENTRATION MAP

FIGURE:

2

PROJECT:

340-34.01

ATTACHMENT A

**CERTIFIED ANALYTICAL REPORT 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

RECEIVED

MAR 1 - 1993

62078.01\1718\012463

RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 02-12-93
Date Received: 02-16-93
Date Analyzed: 02-23-93

Sample Number

023241

Sample Description

Project # 62078.01
Texaco - Oakland
500 Grand Avenue
BBI WATER

ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	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

QA/QC: Sample blank is none detected

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

62078.01\1718\012463

RESNA Industries
3315 Alamden Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 02-12-93
Date Received: 02-16-93
Date Analyzed: 02-23-93

Sample Number

023242

Sample Description

Project # 62078.01
Texaco - Oakland
500 Grand Avenue
8J WATER

ANALYSIS

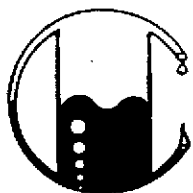
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

QA/QC: Sample blank is none detected

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

62078.01\1718\012463

RESNA Industries
3315 Alamen Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 02-12-93
Date Received: 02-16-93
Date Analyzed: 02-23-93

Sample Number

023243

Sample Description

Project # 62078.01
Texaco - Oakland
500 Grand Avenue
8H WATER

ANALYSIS

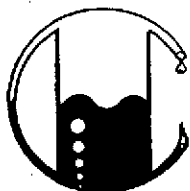
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	73
Benzene	0.5	5.9
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	0.8

QA/QC: Sample blank is none detected

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

62078.01\1718\012463

RESNA Industries
3315 Alampen Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 02-12-93
Date Received: 02-16-93
Date Analyzed: 02-23-93

Sample Number

023244

Sample Description

Project # 62078.01
Texaco - Oakland
500 Grand Avenue
8I WATER

ANALYSIS

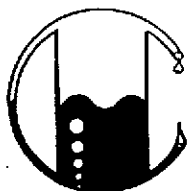
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	4,000
Benzene	0.5	970
Toluene	0.5	9.2
Xylenes	0.5	36
Ethylbenzene	0.5	52

QA/QC: Sample blank is none detected

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

62078.01\1718\012463

RESNA Industries
3315 Alamen Expressway, #34
San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 02-12-93
Date Received: 02-16-93
Date Analyzed: 02-23-93

Sample Number

023245

Sample Description

Project # 62078.01
Texaco - Oakland
500 Grand Avenue
8F WATER

ANALYSIS

	<u>Detection Limit</u>	<u>Sample Results</u>
	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

QA/QC: Sample blank is none detected

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

PROJECT NO. 62078-01	PROJECT NAME / SITE Texaco 500 Grand Oakland CA.						NO. CONTAINERS	SAMPLE TYPE	ANALYSIS REQUESTED							PO #			
SAMPLERS (SIGN) <i>Robin A. Adair</i> / (PRINT) <i>Robin A. Adair</i>																			
SAMPLE IDENTIFICATION	DATE	TIME	COMP	GRAB	PRES. USED	ICED			BTEX (602/8020)	TPH9 (8015)	TPH9 (8015)	TOG 418 (15520)	601/8010	624/8240	625/8270				REMARKS
BBI	2/12/93	11:45			HCL	Y	2	1	X	X									
8J	↓	11:40			↓	↓	0	0	X	X									
8H	↓	12:35			↓	↓	0	0	X	X									
8I	↓	1:30			↓	↓	0	0	X	X									
8F	↓	2:45			↓	↓	0	0	X	X									
RELINQUISHED BY: <i>Robin A. Adair</i>			DATE 2/12/93	TIME 5:00 PM	RECEIVED BY:			LABORATORY: Mobile Chem Labs							PLEASE SEND RESULTS TO: Phil Mayberry Resna, San Jose				
RELINQUISHED BY:			DATE	TIME	RECEIVED BY:			REQUESTED TURNAROUND TIME NORMAL											
RELINQUISHED BY:			DATE	TIME	RECEIVED BY:										RECIPIENT CONDITION ON ICE to headspace				
RELINQUISHED BY: <i>Robin A. Adair</i>			DATE 2/6/93	TIME 10:45	RECEIVED BY: Dave Levine														

ATTACHMENT B
WELL PURGE DATA SHEETS

WELL PURGE DATA SHEET

Project Name: TEXGCO

Job No. 6207801

Date: 2/12/93

Page 4 of 4

Well No. MV 8F

Time Started 1:35

TIME (hr)	GALLONS (cum.)	TEMP. (F)	PH	CONDUCT. (micromho)	TURBIDITY (NTU)
1:35	Start purging MW- 8F				
1:35	0	61.1	7.44	3440	—
1:38	3.2	60.5	7.43	3500	—
2:08	6.4	60.0	7.40	3460	—
	@ well went dry twice.				
2:09	Stop purging MW-				

Notes:

clear & cloudy
No odor
No sheen

Well Diameter (inches) : 4"
 Depth to Bottom (feet) : 14.47
 Depth to Water - initial (feet) : 9.66
 Depth to Water - final (feet) : 9.66
 * recovery : 160%
 Time Sampled : 2:45
 Gallons per Well Casing Volume : 317
 Gallons Purged : 6.4
 Well Casing Volume Purged : 2
 Approximate Pumping Rate (gpm) : 1.9 gpm

@ well went dry
at 50 gal.
let recharge 30 min
Recharge rate 2"/min

@ well went dry again
let recharge. Sampled

WELL PURGE DATA SHEET

Project Name: TERGCO

Job No. 62678.01

Date: 2/12/93

Page 2 of 4

Well No. MW 8H

Time Started 10:20

TIME (hr)	GALLONS (GUM.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
10:20	Start purging MW- 8H				
10:20	0	66.4	7.71	1020	—
10:27	7.05	61	7.70	970	—
10:34	14.10	61.9	7.70	970	—
11:05	21.15	62.0	7.80	1030	—
11:12	28.20	62.4	7.78	980	—
11:13	Stop purging MW- 8H				

Notes:

clear
slight color
No sheen

Well Diameter (inches) : 4"
 Depth to Bottom (feet) : 14.90'
 Depth to Water - initial (feet) : 4.12'
 Depth to Water - final (feet) : 4.12'
 % recovery : 100%
 Time Sampled : 12:35
 Gallons per Well Casing Volume : 7.05
 Gallons Purged : 28.20
 Well Casing Volume Purged : 4
 Approximate Pumping Rate (gpm) : 10gpm

Well went dry at 14.0 gal.
 Let recharge 30min.

WELL PURGE DATA SHEET

Project Name: Texas

Job No. 62078.01

Date: 2/12/93

Page 3 of 4

Well No. M 8 I

Time Started 11:30

TIME (hr)	GALLONS (GAL.)	TEMP. (F)	PH	CONDUCT. (micromho)	TURBIDITY (NTU)
11:30	Start purging MW- 8 I				
11:30	0	62.0	7.65	1410	—
11:35	5.5	62.6	7.65	1450	—
11:40	11.0	63.3	7.63	1466	—
12:15	16.5	60.7	7.63	1420	—
12:20	22.0	62.4	7.64	1450	—
12:21	Stop purging MW-				

Notes:

clear
slight odor
No sheen

Well Diameter (inches) : 4"
 Depth to Bottom (feet) : 14.55'
 Depth to Water - initial (feet) : 6.44'
 Depth to Water - final (feet) : 6.44'
 & recovery : 100%
 Time Sampled : 1:30
 Gallons per Well Casing Volume : 5.35'
 Gallons Purged : 22.0
 Well Casing Volume Purged : 4
 Approximate Pumping Rate (gpm) : 19 gpm

@ well went dry at 11:09 a.m.
 let recharge 30 min.

WELL PURGE DATA SHEET

Project Name: Tekard

Job No. 62078-01

Date: 2/12/93

Page 1 of 4

Well No. M8J

Time Started 10:00

TIME (hr)	GALLONS (GAL.)	TEMP. (F)	pH	CONDUCT. (micromho)	TURBIDITY (NTU)
10:00	Start purging MW- 8J				
10:00	0	61.4	7.46	1780	—
10:05	5.0	62.1	7.50	1830	—
10:10	10.0	63.2	7.53	1890	—
10:40	15.0	62.4	7.62	1830	—
10:45	20.0	63.1	7.63	1890	—
10:46	Stop purging MW- 8J				

Notes:

clear/cloudy
no odor
no sheen

@ well went dry at
11:0 gal. let recharge
30 min.

Well Diameter (inches) : 4"
 Depth to Bottom (feet) : 14.75'
 Depth to Water - initial (feet) : 7.46'
 Depth to Water - final (feet) : 7.46'
 * recovery : 100%
 Time Sampled : 11:50
 Gallons per Well Casing Volume : 4.81
 Gallons Purged : 20.0
 Well Casing Volume Purged : 4
 Approximate Pumping Rate (gpm) : 1 gpm