

Texaco Refining and Marketing Inc.

10 Universal City Plaza Universal Orly CA 91608

February 21, 1992

92 700 20 70 20 25

SUBJECT:

ENV - Status Report 1127 Lincoln Avenue

Alameda, CA

Mr. Thomas F. Peacock
Alameda County
Department Of Environmental Health
UST Local Oversight Program
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Mr. Peacock:

This is in response to your letter of December 5, 1991, and our recent telecommunication regarding the above-referenced site. Texaco Environmental Services (TES) is redistributing the project load in the Northern California area and therefore any requests regarding this site should go to Mr. Robert Robles at this address.

Presently, this project is under evaluation regarding both the future remedial options available and additional delineation. TES recommend at this point that we continue monitoring and sampling and develop workplans for the Phase II Remedial Investigation and Remedial Action Plan.

Quarterly ground-water monitoring and sampling was completed Wednesday and Thursday (February 19 and 20, 1992) and a report of the results is expected in 4-6 weeks. I have included the last Quarterly Monitoring and Sampling Report (Fourth Quarter-1991) for your files.

In the very near future, you will be sent another more detailed status report (including a schedule) regarding this site. If you have questions, comments or require additional information please contact Mr. Robles at (818) 505-2476 or me at (818) 505-2719.

Sincerely

Rose Coughlin

TEXACO ENVIRONMENTAL SERVICES

Attachment (1)

RRobles-RRZielinski

pr: RS (on file)





3315 Almaden Expressway, Suite 34 San Jose, CA 95118

Phone: (408) 264-7723 Fax: (408) 264-2435

REPORT QUARTERLY GROUNDWATER MONITORING Fourth Quarter 1991

at
Former Texaco Station
1127 Lincoln Avenue
Alameda, California

61006.01

Additionally, one soil sample was collected from the bottom of the waste-oil storage tank excavation and analyzed at the laboratory for TPHg, the gasoline constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons as diesel (TPHd), total oil and grease (TOG), volatile organic compounds (VOCs), and semi-VOCs. These analyses did not detect any TPHg, BTEX, TPHd, TOG, or semi-VOCs. VOC's were not detected in this sample with the exception of acetone, at a concentration of 0.61 ppm.

In March 1991, RESNA performed an Initial Subsurface Investigation (RESNA, 61006.01, August 1991) which included the installation of three groundwater monitoring wells (MW-1, MW-2, and MW-3), and five vapor wells (VW-1 through VW-5). Quarterly groundwater monitoring was initiated by RESNA at the request of TES in May 1991. Results of these investigations are presented in the reports listed in the references attached to this report. The locations of the groundwater monitoring and vapor extraction wells and pertinent site features are shown on the Generalized Site Plan (Plate 2).

Groundwater Sampling and Gradient Evaluation

RESNA personnel performed quarterly groundwater monitoring and sampling at the site on November 14, 1991. Field work during this episode consisted of measuring depth-to-water (DTW) levels in all wells (MW-1 through MW-3 and VW-1 through VW-5), subjectively analyzing the groundwater from monitoring wells MW-1 through MW-3 for the presence of a hydrocarbon sheen or floating product, purging, and subsequently sampling the groundwater from monitoring wells MW-1, MW-2, and MW-3 for laboratory analysis. Vapor wells VW-1 through VW-5 contained no water.

Groundwater elevations were calculated for each well by subtracting the measured DTW from the previously surveyed wellhead elevations. The measured DTW levels for this and previous monitoring episodes are shown in Table 1, Cumulative Groundwater Monitoring Data. The apparent gradient magnitude and flow direction interpreted from the November 14, 1991 groundwater elevation data is approximately 0.01 towards the north-northwest. The Groundwater Surface Contour Map (Plate 3) is a graphic presentation of the groundwater surface from the November 14, 1991 groundwater monitoring data. The present groundwater gradient is generally consistent with the previous gradients interpreted from prior groundwater monitoring data. In general, the groundwater elevations in the monitoring wells at the site have decreased approximately two feet since first measured in March 1991.

Groundwater samples were collected from monitoring wells MW-1, MW-2, and MW-3, for subjective analysis before the monitoring wells were purged and sampled. No evidence of



measurable floating product or sheen was observed in the groundwater samples collected from these wells, as reported in Table 1.

Monitoring wells MW-1, MW-2, and MW-3 were purged and sampled in accordance with the enclosed groundwater sampling protocol (Appendix A). Monitoring well purge data sheets and stabilization graphs for the parameters monitored are included in Appendix B.

Laboratory Methods and Results

Groundwater samples collected from monitoring wells MW-1 through MW-3 were analyzed for BTEX and TPHg, by modified Environmental Protection Agency (EPA) Methods 5030/8015/8020. The Chain of Custody Record and Laboratory Analysis Reports are attached as Appendix C. The results of these and previous analyses are summarized in Table 2, Cumulative Results of Laboratory Analyses of Water Samples.

This quarter's laboratory analyses of water samples from monitoring wells MW-1, MW-2, and MW-3 reported:

- o No TPHg or BTEX was detected in the groundwater samples collected from well MW-1.
- TPHg was detected in the groundwater samples collected from wells MW-2 and MW-3 at concentrations of 870 parts per billion (ppb) in both wells. Interpreted concentration contours for TPHg are shown on Plate 4.
- Benzene was detected in the groundwater samples collected from wells MW-2 and MW-3, at levels of 56 and 89 ppb, respectively. These concentrations exceed the California Department of Health Services maximum contaminant level for drinking water of 1.0 ppb. Interpreted concentration contours for benzene are shown on Plate 5.
- Concentrations of the other purgeable gasoline constituents detected (toluene, ethylbenzene, and total xylenes) are below the California Department of Health Services maximum contaminant levels or recommended action levels for drinking water.



It is recommended that copies of this report be forwarded to:

Mr. Ariu Levi Alameda County Health Care Services Department of Environmental Health Hazardous Materials Program 80 Swan Way, Room 200 Oakland, California 95621

Mr. Tom Callaghan
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

If you have any questions or comments regarding the information contained in this letter report, please call us at (408) 264-7723.

Sincerely, RESNA

Patrick B. Lamb

Patrick hamb

Shidap Mey Beny

Philip J. Mayberry / Project Geologist

Lawrence D. Pavlak C.E.G. No. 1187

Senior Program Geologist

CERTIFIED

ENGINEERING
GEOLOGIST

OF CALIFORNIA

Quarterly Groundwater Monitoring
Former Texaco Station, 1127 Lincoln Avenue, Alameda, California

January 8, 1992 61006.01

Enclosures: References:

Plate 1: Site Vicinity Map Plate 2: Generalized Site Plan

Plate 3: Groundwater Surface Contour Map Plate 4: TPHg Concentrations in Groundwater Plate 5: Benzene Concentrations in Groundwater Table 1: Cumulative Groundwater Monitoring Data

Table 2: Cumulative Laboratory Analyses of Groundwater Samples

Appendix A: Groundwater Sampling Protocol

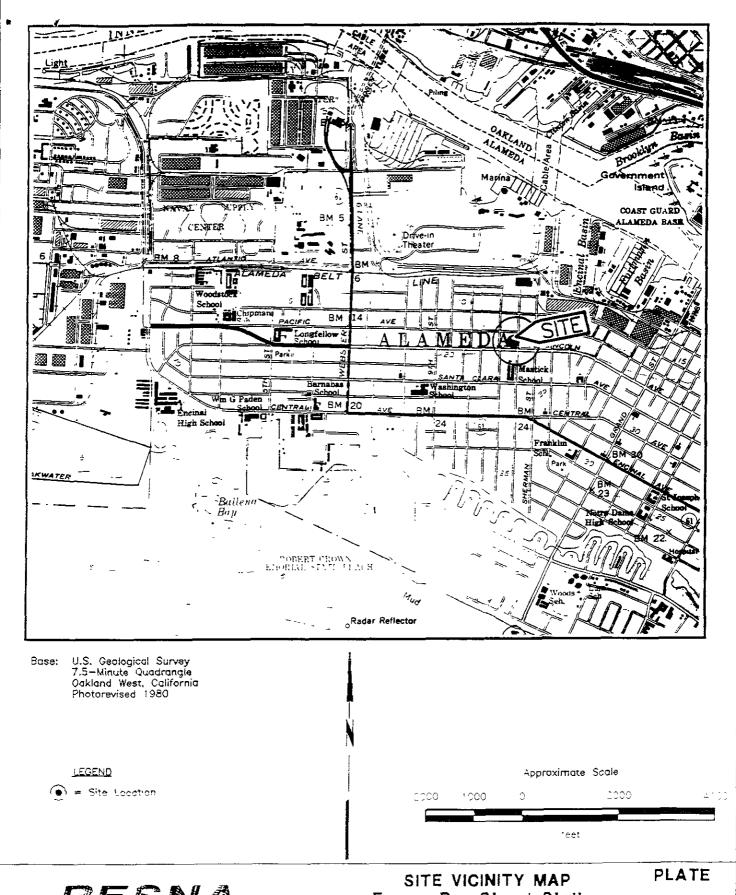
Appendix B: Well Purge Data Sheets and Stabilization Graphs

Appendix C: Chain of Custody Record and Laboratory Analysis Reports

REFERENCES

- McLaren/Hart, November 29, 1990, <u>Texaco-Alameda Site Safety and Health Plan</u>, Project 88705-001.
- McLaren/Hart, January 23, 1991, Work Plan for Phase I Investigation, Lewis Bay Street Service Station, Alameda, California, Project 88705-001.
- RESNA, May 7, 1991, <u>Initial Subsurface Environmental Investigation at Former Bay Street Station</u>, 1127 <u>Lincoln Avenue</u>, <u>Alameda</u>, <u>California</u>. RESNA Report No. 61006.01
- RESNA, September 24, 1991, <u>Letter Report, Quarterly Groundwater Monitoring, Third Quarter 1991 at Former Bay Street Station, 1127 Lincoln Avenue, Alameda, California.</u> RESNA Report No. 61006.01





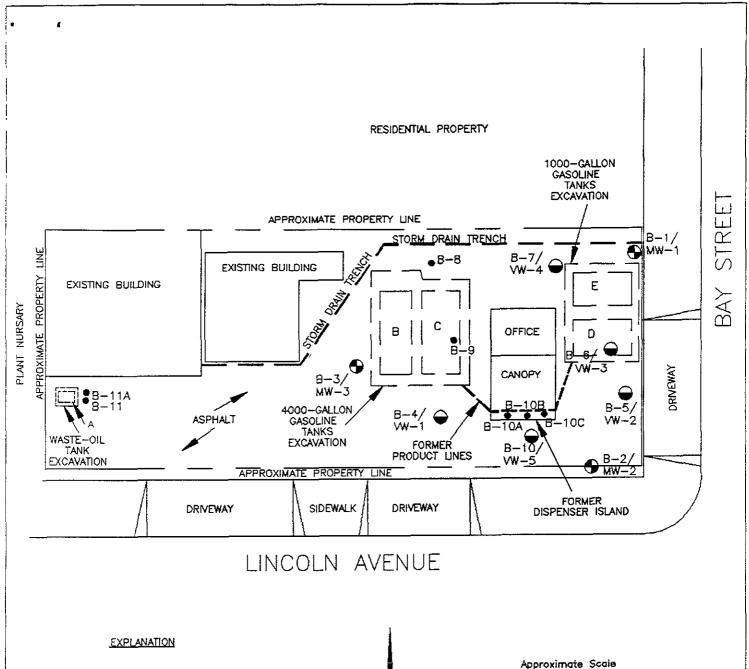
RESNA

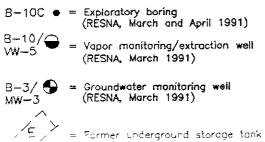
Former Bay Street Station 1127 Lincoln Avenue Alameda, California

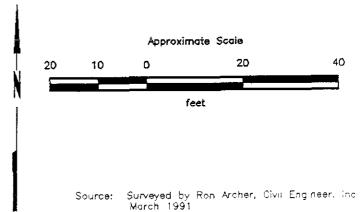
٦

PROJECT

61006.01







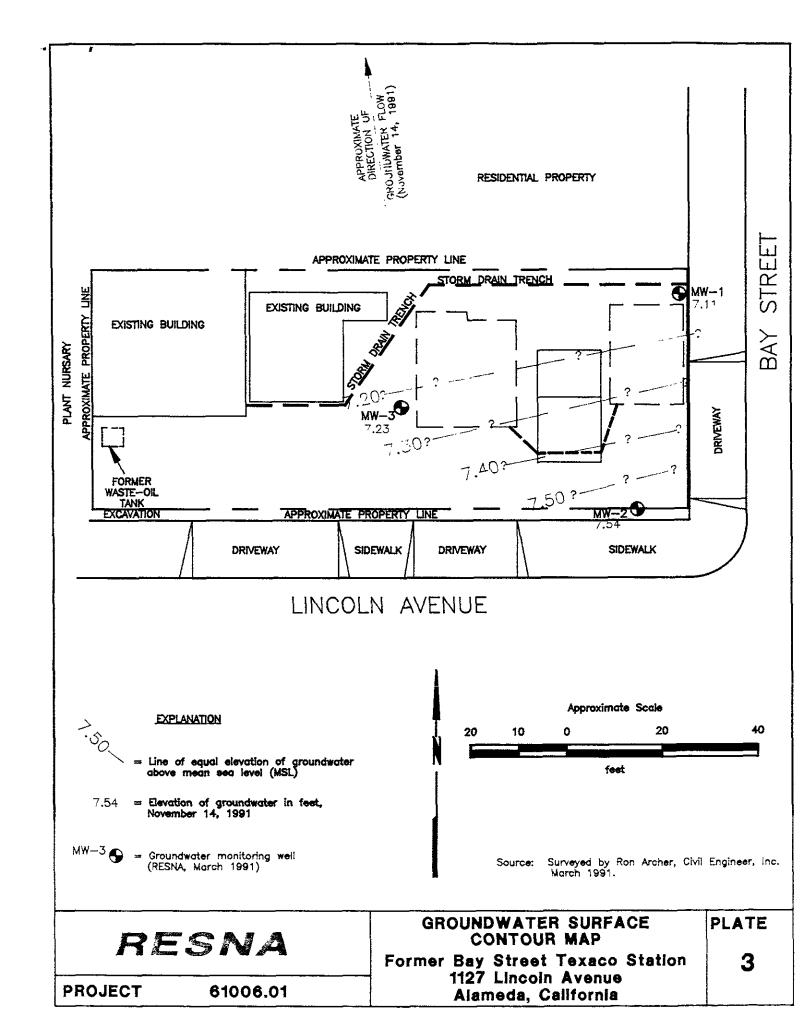
RESNA

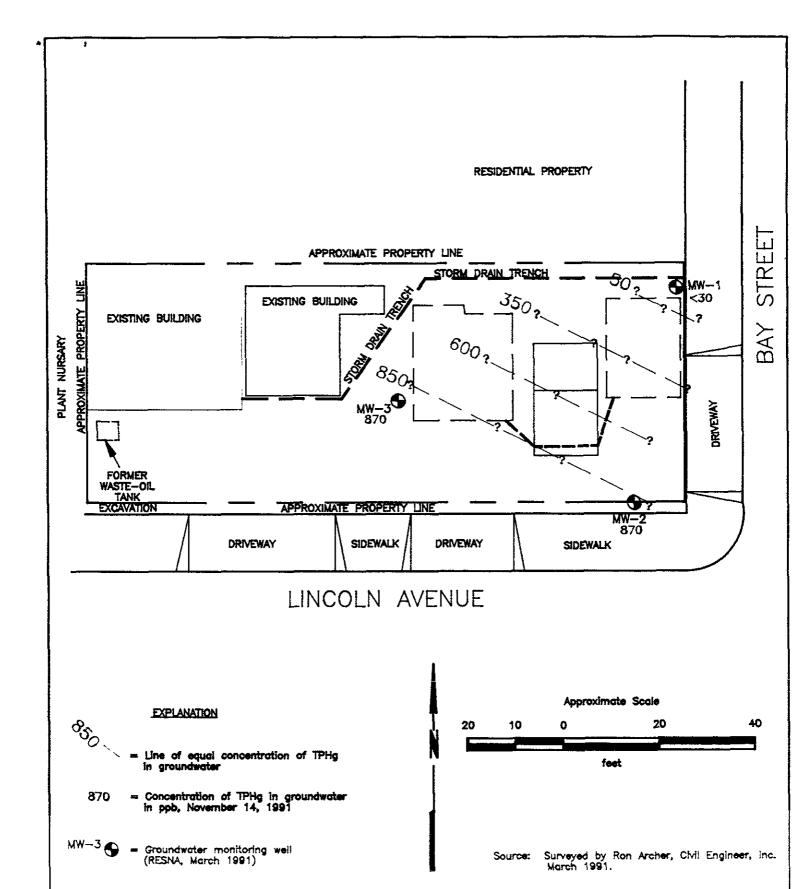
GENERALIZED SITE PLAN
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California

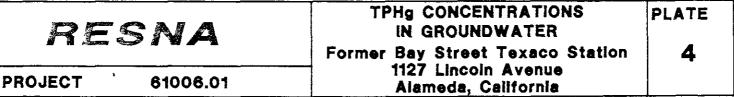
PLATE

PROJECT

61006.01







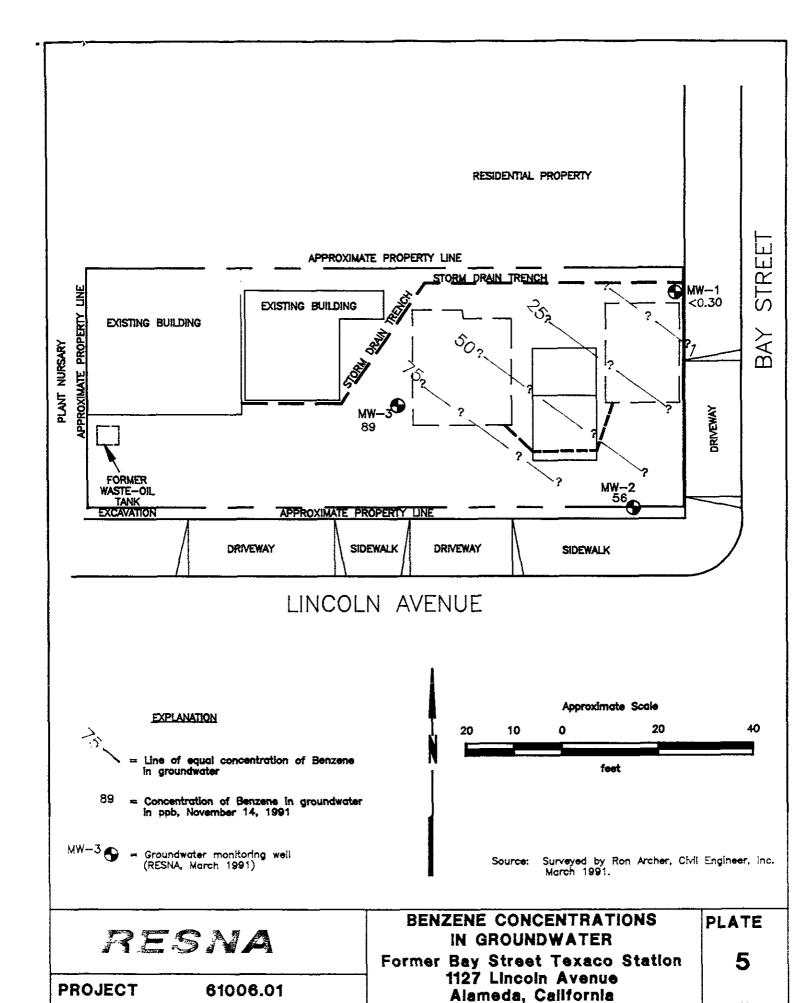


TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Bay Street Texaco Station
Alameda, California

Monitoring Well	Date	Elevation of Well Casing	Depth to Water	Elevation of Ground water	Floating Product
MW-1	03-22-91	16.49	7.23	9.26	none
	04-04 -9 1		6.68	9.81	none
	08-13-91		8.59	7.90	none
	11-14 -9 1		9.38	7.11	none
MW-2	03-22-91	17.14	7.60	9.54	none
	04 - 04- 9 1		7.07	10.07	none
	08-13-91		8.85	8.29	none
	11 - 14 -9 1		9.60	7.54	none
MW-3	03-22-91	16.91	7.43	9.48	none
	04-04-91		6.80	10.11	попе
	08-13- 9 1		8.88	8.03	none
	11-14-91		9.68	7.23	none
VW-1	03-22-91	16.83	dry	dry	none
	04-04-91		6.89	9.92	none
	08-13-91		dry	dry	none
	11-14-91		dry	drý	none
VW-2	03-22-91	17.00	7.59	9.41	none
	04 - 04- 9 1		7.04	9.96	none
	08-13 -9 1		dry	dry	none
	11-14-91		dry	dry	none
VW-3	03-22-91	16.94	7.71	9.23	none
	04-04-91		6.92	10.02	попе
	08-13- 9 1		8.45	8.49	none
	11-14 -9 1		dry	dry	none
VW-4	03-22 -9 1	16.81	7.66	9.15	sheen
	04 -04-9 1		inaccessible		
	08-13 -9 1		8.40	8.41	none
	11-14 -9 1		dry	dry	none
VW-5	03-22-91	17.20	7.67	9.53	sheen
	04 -04-9 1		inaccessible	_	
	08-13-91		dry	dry	none
	11-14-91		dry	dry	none

Elevations above mean sea level.

Depth to water measured in feet below top of casing



TABLE 2 CUMULATIVE LABORATORY ANALYSES OF GROUNDWATER SAMPLES Former Bay Street Texaco Station Alameda, California

Well Number Date	ТРНд	В	Т	E	х	TPHd•	VOCs & Semi-VOC
MW-1							
03-22-91	4,500	1,300	670	180	<i>77</i> 0	1,100	ND
08-13 -9 1	850	260	51	13	48	NA	NA NA
11-14-91	<30	< 0.30	< 0.30	< 0.30	< 0.30	NA	NA.
<u>MW-2</u>							
03-22-91	1,100	100	20	63	220	140	ND
08-13- 9 1	1,100	270	4.7	16	49	NA	NA.
11-14-91	870	56	8.9	21	46	NA	NA
MW-3							
03-22-91	2,500	390	27	240	780	<i>7</i> 70	ND
08-13-91	1,300	180	3.8	79	200	NA.	NA NA
11/14/91	870	89	9	30	82	NA	NA
Jan. 1990							
MCLs		1.0	-,-	680	1,750		
DWALs	•••	-,-	100		1,/30		

Results in parts per billion (ppb)

MCLs = Adopted Maximum Contaminant Levels in Drinking Water, DHS (July 1989)

DWALs = Recommended Drinking Water Action Levels, DHS (January 1990)

ND = Below laboratory detection limit.

NA = Not Analyzed

TPHg = Total petroleum hydrocarbons as gasoline (analyzed by EPA Method 5030).

TPHd = Total petroleum hydrocarbons as diesel (analyzed by EPA Method 3510).

Anametrix states: "The concentrations reported as diesel for samples W-9-MW1, W-9-MW2, and W-9-MW3 are primarily due to the presence of a lighter petroleum product, possibly gasoline."

B = benzene, T = toluene, E = ethylbenzene, X = total xylene isomers.

BTEX = Measured by EPA Method 602/(624).

VOCs = Volatile organic compounds (analyzed by EPA Method 624/8240).

Semi-VOCs = Semi-volatile organic compounds (analyzed by EPA Method 8270)



APPENDIX A GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

The static water level in each well was measured with a Solinst® water level indicator; this instrument is accurate to the nearest 0.01 foot. These groundwater depths were subtracted from wellhead elevations to calculate the differences in water-level elevations.

Water samples collected for subjective evaluation were collected by gently lowering approximately half the length of a clean Teflon® bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples were checked for measurable floating hydrocarbon product.

Before groundwater samples were collected from the groundwater monitoring wells, the wells were purged of approximately six well casing volumes until stabilization of the temperature, pH, and conductivity was obtained. Turbidity measurements were also taken on the purged well water. The quantity of water purged from each well was calculated as follows:

1 well casing volume = $\pi r^2 h(7.48)$ where:

r = radius of the well casing in feet.

h = column of water in the well in feet

(depth to bottom - depth to water).

7.48 = conversion constant from cubic feet to gallons

gallons removed/1 well casing volume = number of well casing volumes removed from the well.

After purging, each well was allowed to recharge to at least 80 percent of the approximate initial water level. Water samples were collected with a U.S. Environmental Protection Agency (EPA) approved Teflon® bailer subsequent to being cleaned with Alconox® and deionized water. The water samples were poured into 40-milliliter (ml) glass vials, which were filled so as to produce a positive meniscus. Each vial was preserved with hydrochloric acid, sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace which would allow volatilization to occur. The samples were transported in iced storage in a thermally insulated ice chest, accompanied by a Chain of Custody form, to a California-certified laboratory.



APPENDIX B WELL PURGE DATA SHEETS

AND
STABILIZATION GRAPHS

WELL PURGE DATA SHEET

Project Name: <u>Texaco Alameda</u> Job No. <u>61006.01</u>

Date: November 14, 1991 Page 1 of 1

Well No. MW-1 Time Started 12:30

Time	Gallons	Temp.	рн	Conduct.	Turbidity						
(hr)	(cum.)	(F)	_	(micromoh)	(MTU)						
12:30	Start	Start purging MW-1									
12:32	0	65.7	6.90	6.76	11.6						
12:42	5	67.9	7.16	8.94	5.7						
12:46	10	67.6	6.93	8.55	4.1						
12:51	15	67.5	7.19	8.15	4.2						
12:55	20	68.3	7.21	7.54	1.9						
01:01	25	68.5	7.19	7.51	1.4						
01:06	30	67.9	6.93	7.45	0.9						
01:11	35	68.0	6.74	7.42	0.7						
01:16	40	68.4	6.73	7.39	1.2						
	Stop	purging MW	-1								
Notes:											
				er (inches) :							
	_			ttom (feet) :							
				tial (feet) :							
	I	Septing to Ma		al (feet): % recovery:							
				ime Sampled:							
	c	sallong per		ing Volume :							
	•	errens her		ons Purged :							
		Well Cas		mes Purged :							
				Rate (gpm):							

WELL PURGE DATA SHEET

Project Name: Texaco Alameda Job No. 61006.01

Date: November 14, 1991 Page 1 of 1

Well No. HW-2 Time Started 11:30

Time (hr)	Gallons (cum.)	Temp.	Нq	Conduct.	Turbidity (NTU)
11:30	Start	purging M	T− 2		
11:37	0	65.9	7.09	9.30	14.2
11:41	5	68.3	6.74	9.51	4.3
11:45	10	67.7	6.85	9.02	2.9
11:48	15	67.1	6.78	8.78	2.3
11:52	20	66.0	7.02	7.66	10.2
11:57	25	65.2	6.89	7.74	6.1
12:03	30	65.5	7.12	7.23	5.7
12:17	35	66.1	7.14	7.01	5.1
12:27	40	65.8	7.08	6.97	3.4
	Stop	purging MW-	-2		
Notes:		We	ll diamet	er (inches) :	411
				ttom (feet) :	
	I	epth to Wa	ter - ini	tial (feet) :	9.60
	Ι	epth to Wa	ter - fin	al (feet):	9.81
				% recovery :	
				ime Sampled:	
	•	allons per	Well Cas	ing Volume :	6.43
				ons Purged :	
				mes Purged :	
		Approximate	e Pumping	Rate (gpm) :	0.70



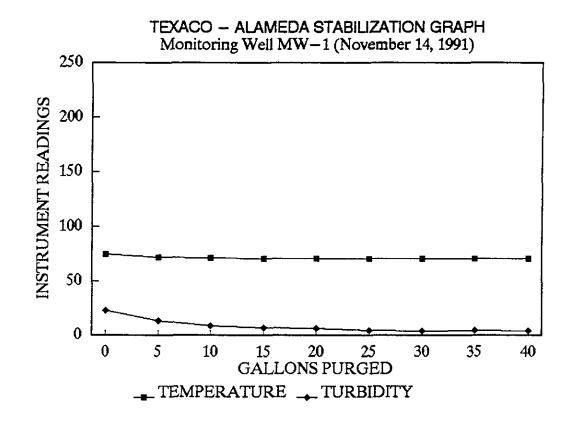
WELL PURGE DATA SHEET

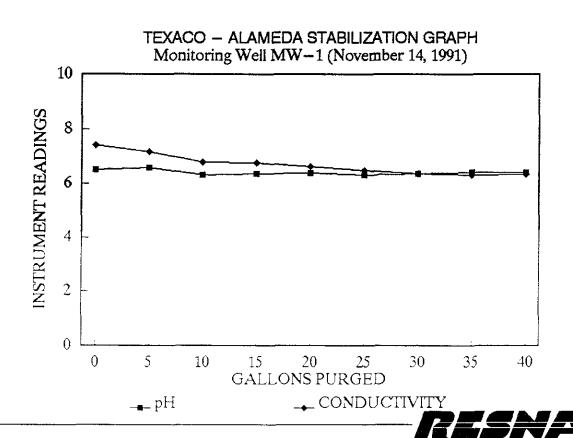
Project Name: Texaco Alameda Job No. 61006.01

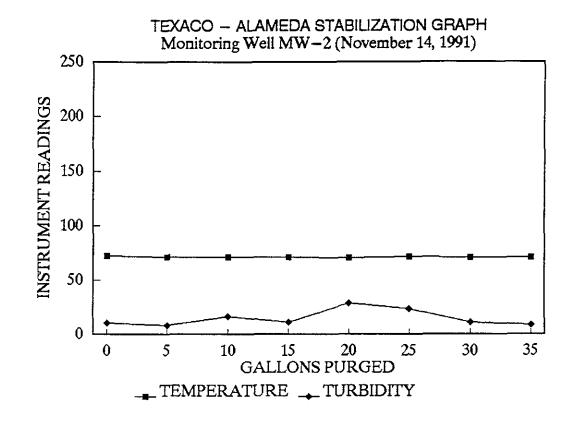
Date: <u>November 14, 1991</u> Page <u>1</u> of <u>1</u>

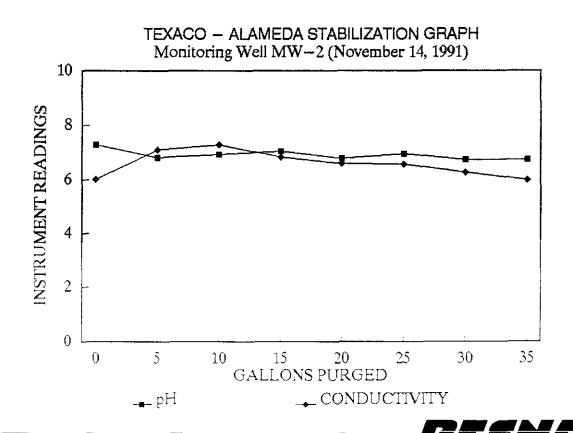
Well No. MW-3 Time Started 10:35

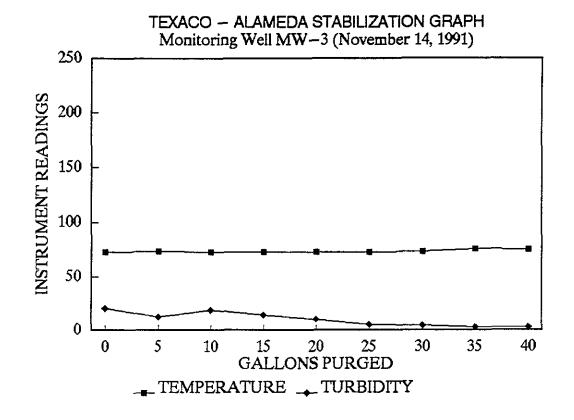
Time (hr)	Gallons (cum.)	Temp.	pН	Conduct. (micromoh)	Turbidity (NTU)
10:35	Start	purging M	₩ -3		
10:48	0	67.3	9.56	36.7	
10:53	5	67.4	7.58	8.83	10.5
10:56	10	66.4	7.42	8.16	9.3
10:59	15	65.6	7.28	7.62	4.6
11:04	20	65.2	7.09	7.29	1.7
11:09	25	67.4	6.89	7.61	1.9
11:14	30	66.6	6.73	7.42	2.7
11:18	35	67.1	6.78	7.51	2.3
11:23	40	66.9	6.75	7.59	2.1
	Stop	purging MW	- 3		
Notes:				er (inches) :	
				ttom (feet) :	
				tial (feet) :	
	D	epth to Wa		al (feet):	
				<pre>% recovery : ime Sampled :</pre>	
	c	allong per		ime sampled :	
	G	errons her		ons Purged :	
		Well Ca		mes Purged :	
				Rate (gpm) :	

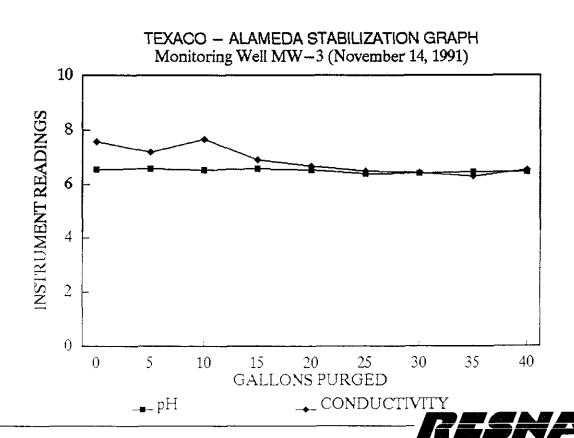












APPENDIX C

CHAIN OF CUSTODY RECORD AND LABORATORY ANALYSIS REPORTS

RECEIVED



FEC -4 1991

RESNA SANJOSE

RESNA 3315 Almaden Expwy., Suite 34

San Jose, CA 95112 Attention: Patrick Lamb

61006.01, Texaco, Alameda Client Project ID:

Matrix Descript: Water

Analysis Method: EPA 5030/8015/8020

First Sample #: 111-3390

Sampled: Nov 14, 1991 Nov 14, 1991 6 Received:

Analyzed: Nov 20-22, 1991 Reported: Nov 27, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons µg/L (ppb)	Benzene μg/L (ppb)	Toluene μg/L (ppb)	Ethyl Benzene μg/L (ppb)	Xyienes μg/L (ppb)
111-3390	W-9-MW1	N.D.	N.D.	N.D.	N.D.	N.D.
111-3391	W-9-MW1R	N.D.	N.D.	0.32	N.D.	0.49

					
Detection Limits:	30	0.30	0.30	0.30	0.30

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline fuel standard Analytes reported as N.D. were not present above the stated limit of detection

SEQUOIA ANALYTICAL

Maria Lee Project Manager

1113390 RRR <1>

RESNA 3315 Almaden Expwy., Suite 34

Matrix Descript:

Client Project ID: 61006 01, Texaco, Alameda Water

Nov 14, 1991 Sampled: Received: Nov 14, 1991

San Jose, CA 95112

Analysis Method. EPA 5030/8015/8020

Analyzed:

Nov 25, 1991

Attention: Patrick Lamb

First Sample #:

111-3392

Reported: Nov 27, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample	Sample	Low/Medium B.P.	•		Ethyl			
Number	Description	Hydrocarbons μg/L (ppb)	Benzene μg/L (ppb)	T oluene μg/L (ppb)	Benzene μg/L (ppb)	Xylenes μg/L (ppb)		
111-3392	W-9-MW2	870	58	8.9	21	46		

Detection Limits:	60	0.60	0.60	0.60	0.60

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline fuel standard Analytes reported as N.D. were not present above the stated limit of dar-bloch. Because motifickletfects and lor other tactors required additional sample dilution, detection, mits tor this sample includiceur in sect

SEQUOIA ANALYTICAL

Project Manager



RESNA 3315 Almaden Expwy., Suite 34

Matrix Descript:

Client Project ID: 61006.01, Texaco. Alameda Water

Sampled: Received:

Nov 14, 1991 Nov 14, 1991

San Jose, CA 95112 Attention: Patrick Lamb First Sample #:

Analysis Method: EPA 5030/8015/8020

Analyzed:

Nov 25, 1991

111-3393

Reported: Nov 27, 1991.

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons µg/L (ppb)	B enzene μg/L (ppb)	Toluene μg/L (ppb)	Ethyl Benzene µg/L (ppb)	Xylenes μg/L (ppb)
111-3393	W-9 MW3	870	89	9.0	30	82

Detection Limits:	300	3 0	3.0	3.0	3.0	
	•••				***	

Low to Medium Boiling Point Hydrocarbons are quantifated against a crisoling fuel star dard Analytes reported as NID, were not present above the stated, mit of detection. Because matrix effects and or other factors required additional sample of ution, detection, inits for this sample of the permit lead

SEQUOIA ANALYTICAL

Project Manager

1113390 RRR 235



RESNA

2 - 10 000

3315 Almaden Expwy., Suite 34

San Jose, CA 95112 Attention: Patrick Lamb Client Project ID: 61006.01, Texaco, Alameda

Reported:

Nov 27, 1991

g164

QC Sample Group: 111-3391

QUALITY CONTROL DATA REPORT

ANALYTE		Tuluana	Ethyl-	Vidense	
L	Benzene	Toluene	Benzene	Xylenes	
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 8020 C. Donohue μg/L Nov 20, 1991 GBLK112091	EPA 8020 C. Donohue μg/L Nov 20, 1991 GBLK112091	EPA 8020 C Donohue μg/L Nov 20. 1991 GBLK112091	EPA 8020 C Donohue μg/L Nov 20. 1991 GBLK112091	
Sample Conc.:	N.D.	N.D.	N D.	N.Ď.	
Spike Conc. Added:	10	10	10	30	
Conc. Matrix Spike:	9.9	10	10	30	
Matrix Spike % Recovery:	99	100	100	100	
Conc. Matrix Spike Dup.:	9.2	9.2	9.2	28	
Matrix Spike Duplicate % Recovery:	92	92	92	93	
Relative % Difference:	73	8 3	æ 3	6 9	

SEQUOIA ANALYTICAL

Maria Lee Project Manager

³ J Recovery	Joha of M.S Cond of Sample	x 100
	spike Opno iAdded	-
Relative re Difference	Iana U M S - Canalat M S D	x 100
	Daniel ar M.S. + Daniel or M.S.D. 2	·



RESNA 3315 Almaden Expwy., Suite 34

San Jose, CA 95112 Attention: Patrick Lamb Client Project ID: 61006 01, Texaco, Alameda

QC Sample Group: 1113392-93

Reported: Nov 27, 1991

. . .

QUALITY CONTROL DATA REPORT

ANALYTE	Ponzono	Toluene	Ethyl- Benzene	Xylenes
	Benzene	roluerie	Denzene	∧yienes
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	EPA 8020 L. Laikhtman μg/L Nov 25, 1991 GBLK112591 MS/MSD	EPA 8020 L Laikhtman µg/L Nov 25, 1991 GBLK112591 MS/MSD	EPA 8020 L Laikhtman μg/L Nov 25, 1991 GBLK112591 MS/MSD	EPA 8020 L. Laikhtman μg/L Nov 25, 1991 GBLK112591 MS/MSD
Sample Conc.:	N.D.	ND.	N.D	ND
Spike Conc. Added:	10	10	10	30
Conc. Matrix Spike:	10	10	10	31
Matrix Spike % Recovery:	100	100	100	103
Conc. Matrix Spike Dup.:	11	11	11	33
Matrix Spike Duplicate % Recovery:	110	110	110	110
Relative % Difference:	9 5	95	9 5	63

SEQUOIA ANALYTICAL

Matia Lée 'Project Manager 1113390 AAA < 5 ×



RESNA 3315 Almaden Expwy., Suite 34 Client Project ID: 61006.01, Texaco, Alameda

San Jose, CA 95112 Attention: Patrick Lamb

QC Sample Group: 111-3390

Reported: Nov 27, 1991

1 47 54 1 197 1 2 4 4 4 4 4 1

QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl-	
	Benzene	Toluene	Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J Jencks	J. Jencks	J Jencks	J Jencks
Reporting Units:	μg/L	μg/L	μg/L	μg/L
Date Analyzed:	Nov 22 1991	Nov 22, 1991	Nov 22 1991	
QC Sample #:	GBLK112291	GBLK112291	GBLK112291	
ac campio ii .	302.11.12231	GD4,111,0201	GPC///LEG	QBC
	5		N/ 0	
Sample Conc.:	N.D.	ND.	ND	ND
Spike Conc.				
Added:	10	10	10	30
Conc. Matrix				
Spike:	9.1	9.3	9.2	27
Spike:	9.1	9.3	9.2	21
Matrix Spike				
% Recovery:	91	93	92	90
Conc. Matrix				
Spike Dup.:	92	9.5	9 4	28
opike bup	3 2	3.5	24	20
Matrix Spike				
Duplicate				
% Recovery:	92	95	94	93
Relative				
% Difference:	1 1	2 1	2 2	3 6
				4 5

SEQUOIA ANALYTICAL

™ Reco.e . visi Condict Sample , ke Lond Added × 100

Maria Lee Project Manager



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

PROJECT NO	PROJECT	NAME/SITE (127 UNGW Arf.								ANALYSIS REQUESTE									ED P.O. #:					
61006.01	1 EXA	TO ALAMFOA ALAMFOA, CA.							Si	Ī														
SAMPLEAS	(SIGN) (PRII	NT PAO	μUL	4n	ß			NO. CONTAINERS	E TYPE	,		(Sign 2) 2/4/2/	(\$10)	801,814 801,00				//	/				
SAMPLE IDENTI	FICATION			TIME	COMP	GRAB	PRES. USED	ICED	NO. CO	SAMPLE TYPE	16				801/8/16.			//		$^{\prime}/$	$^{\prime}/$	<i></i>	REMARKS	· · · · ·
W-9-7W1	r •	111	4/91 13	335			Her	1	1	W								V	1					
W-9-MW1	٠			340					3		✓	<u>く</u>										11133	391	
W-9-MWZ	R.		ľ	345					1		✓	/									<u> </u>	11133		
W-9-nw2			l	350					3		✓	✓										111 33	392	
W-9-MW3	a.		1	355_					1				$ \perp $					_ \	4_		1			
W-9-MW3	•			140					3		✓	\preceq]					_	<u> </u>	1113	393	
								ļ						_		_		_	4	1_	1	ļ <u></u>		
							******												_ -		 		·	
													_			\dashv	_	_		4_	\bot	<u> </u>		
															_	_		4		\bot	-	 		
																			\bot	 	-			
								<u> </u>							_ }		_	_			-			
			_					-								_		\perp	+				· · · · · · · · · · · · · · · · · · ·	
					ļ		! 	ļ					_					-	-	-				
RELINQUISHED BY		DATE	TIME		RECEIVED BY:					LABORATORY:									F	PLEASE SEND RESULTS TO:				
John		11-14-9									7	36/1	10/6	\$						RESMA				
RELINIONISHED BY		DATE ///4.9/	TIME		RECEIVED BY:														3315 Acrassic Econosium 5176 34 5An Jose, CA. 95710					
RELINQUISHED BY		DATE	TIME		RECEIVED BY:				REQUESTED TURNAROUND TIME:															
RELINQUISHED BY		DATE	TIME		REÇE	IVED	BY LABO	PRATO	DRY:	RY: RECEIPT CONDITION:								-[-	PROJECT MANAGER:					
		11/14	16	55	KWC100					200d/cool								Par Lang and Homes						