



Texaco Refining
and Marketing Inc

10 Universal City Plaza
Universal City CA 91608

May 11, 1993

ENV - SERVICE STATIONS

Quarterly Status Report
1127 Lincoln Avenue
Alameda, California

Ms. Juliet Shin
Alameda County Department Of
Environmental Protection
80 Swan Way, Room 200
Oakland, CA 94621

Dear Ms. Shin:

Enclosed is a copy of the Quarterly Groundwater Monitoring Letter Report dated April 16, 1993, for the former Texaco service station at the above site.

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

Very truly yours,

Bob Robles
Environmental Protection Coordinator

RR:rr
w:\rr\1127lin1.reg

cc: Mr. Leo Pagano
1127 Lincoln Avenue
Alameda, California

Mr. Richard Hiett
California Regional Water Quality Control Board
San Francisco Bay Region
2201 Webster Street, Suite 500
Oakland, California 94612

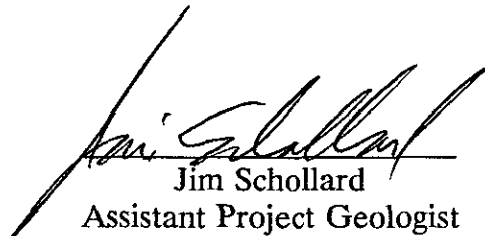
RRZielinski

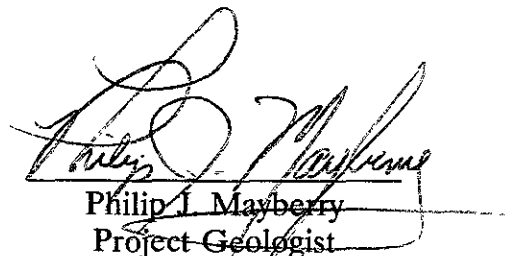
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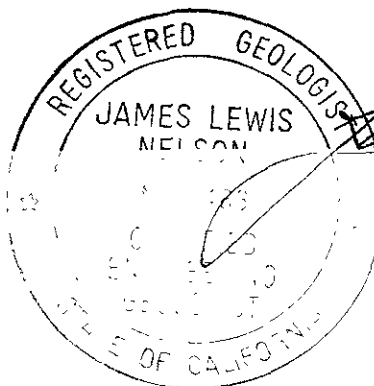

3315 Almaden Expressway, Suite 34
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Phone: (408) 264-7723
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LETTER REPORT
QUARTERLY GROUNDWATER MONITORING
First Quarter 1993
at
Former Texaco Station
1127 Lincoln Avenue
Alameda, California

62074.01


Jim Schollard
Assistant Project Geologist


Philip J. Mayberry
Project Geologist



James L. Nelson
Certified Engineering
Geologist No. 1463

April 16, 1993

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April 16, 1993
0324RROB
62074.01

Mr. Robert Robles
Texaco Environmental Services
10 Universal City Plaza, 7th Floor
Universal City, California 91608

Subject: Results of Groundwater Monitoring and Sampling for the First Quarter 1993
at Former Texaco Station located at 1127 Lincoln Avenue in Alameda,
California.

Mr. Robles:

At the request of Texaco Environmental Services (TES), RESNA Industries Inc. (RESNA) has prepared this letter which summarizes the results of quarterly groundwater monitoring at the former Texaco Service Station located at 1127 Lincoln Avenue in Alameda, California (Plate 1, Site Vicinity Map) for the first quarter 1993 (January through March 1993). Monthly groundwater monitoring was conducted on January 26 and March 9, 1993, and on February 4, 1993, quarterly groundwater monitoring and sampling was conducted to evaluate groundwater elevations, gradient and flow direction, the presence and thickness of any petroleum hydrocarbon sheen or floating product, and the distribution of dissolved hydrocarbons in the 7 monitoring wells (MW-1 through MW-4, and MW-6 through MW-8) sampled at this site. MW-5 was inaccessible this quarter because a car was parked over the well and was therefore not monitored or sampled. Wells VW-1 through VW-5 were not monitored by request of TES. RESNA's groundwater sampling protocol and well purge data sheets are included in Appendix A. Laboratory analyses with chain of custody documentation are included in Appendix B.

WORK PERFORMED

GROUNDWATER MONITORING

Groundwater elevations at the site have increased an average of about 3 feet from the elevations reported the previous quarter. The groundwater gradient map shows the

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groundwater beneath the site to be flowing towards the east-northeast with a hydraulic gradient of approximately 0.007 (Plate 2, Groundwater Gradient Map). Historical and recent monitoring data are summarized in Table 1, Cumulative Groundwater Monitoring Data.

GROUNDWATER SAMPLING

Groundwater samples were submitted to Mobile Chem Laboratories (California Hazardous Materials Testing Laboratory Certification No. 1223) in Martinez, California under chain of custody protocol. The samples were analyzed for the gasoline constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX), and total petroleum hydrocarbons as gasoline (TPHg) using modified Environmental Protection Agency (EPA) Methods 5030/602. The Chain of Custody Record and Laboratory Analysis reports are included in Appendix B.

GROUNDWATER ANALYTICAL RESULTS

Concentrations of TPHg in groundwater samples ranged from less than 50 parts per billion (ppb) to 2,900 ppb (MW-3). Dissolved benzene concentrations ranged from less than 0.5 ppb to 180 ppb (MW-3). TPHg and benzene concentrations are shown on Plate 3, TPHg/Benzene Concentrations in Groundwater. Neither floating product nor hydrocarbon sheen was observed in the wells. Historical and recent analytical data are summarized in Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples. Copies of the laboratory analyses reports and the chain of custody manifest for the groundwater samples are included in Appendix B.

PURGE WATER RECYCLING

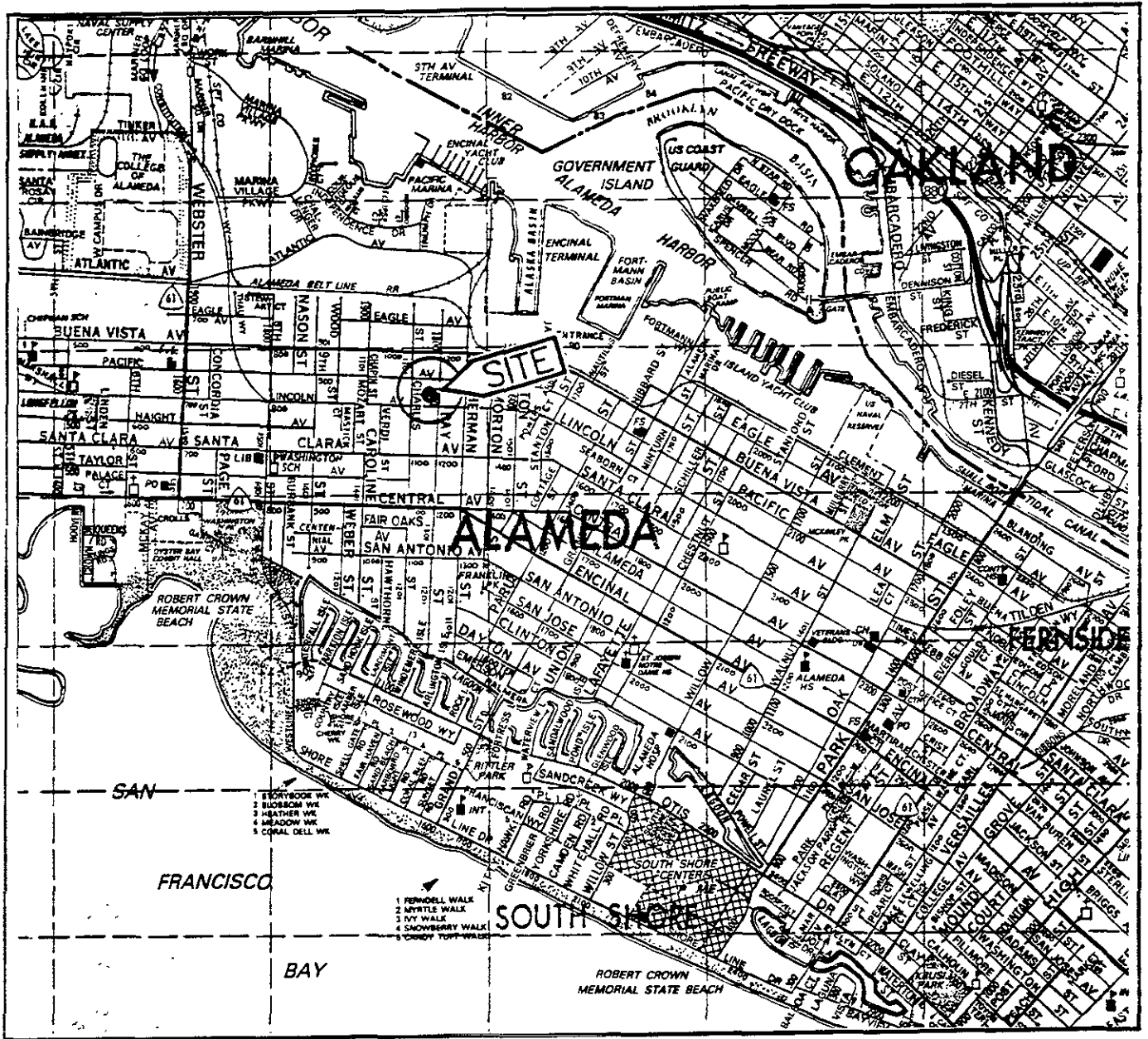
On February 2, 1993, approximately 200 gallons of purge water generated during pumping and sampling of the 7 monitoring wells were transported to Gibson Environmental in Redwood City, California for recycling.

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If you have any questions or comments regarding this report, please call (408) 264-7723.

- Enclosures: Plate 1, Site Vicinity Map
Plate 2, Groundwater Gradient Map
Plate 3, TPHg/Benzene Concentrations in Groundwater
- Table 1, Cumulative Groundwater Monitoring Data
Table 2, Cumulative Results of Laboratory Analyses of Groundwater Samples
- Appendix A, Groundwater Sampling Protocol and Well Purge Data Sheets
Appendix B, Laboratory Analysis Reports and Chain of Custody Documentation

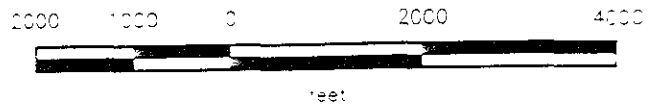


Base: Thomas Guide - Alameda County Ca.

Scale

● = Site Location

Approximate Scale



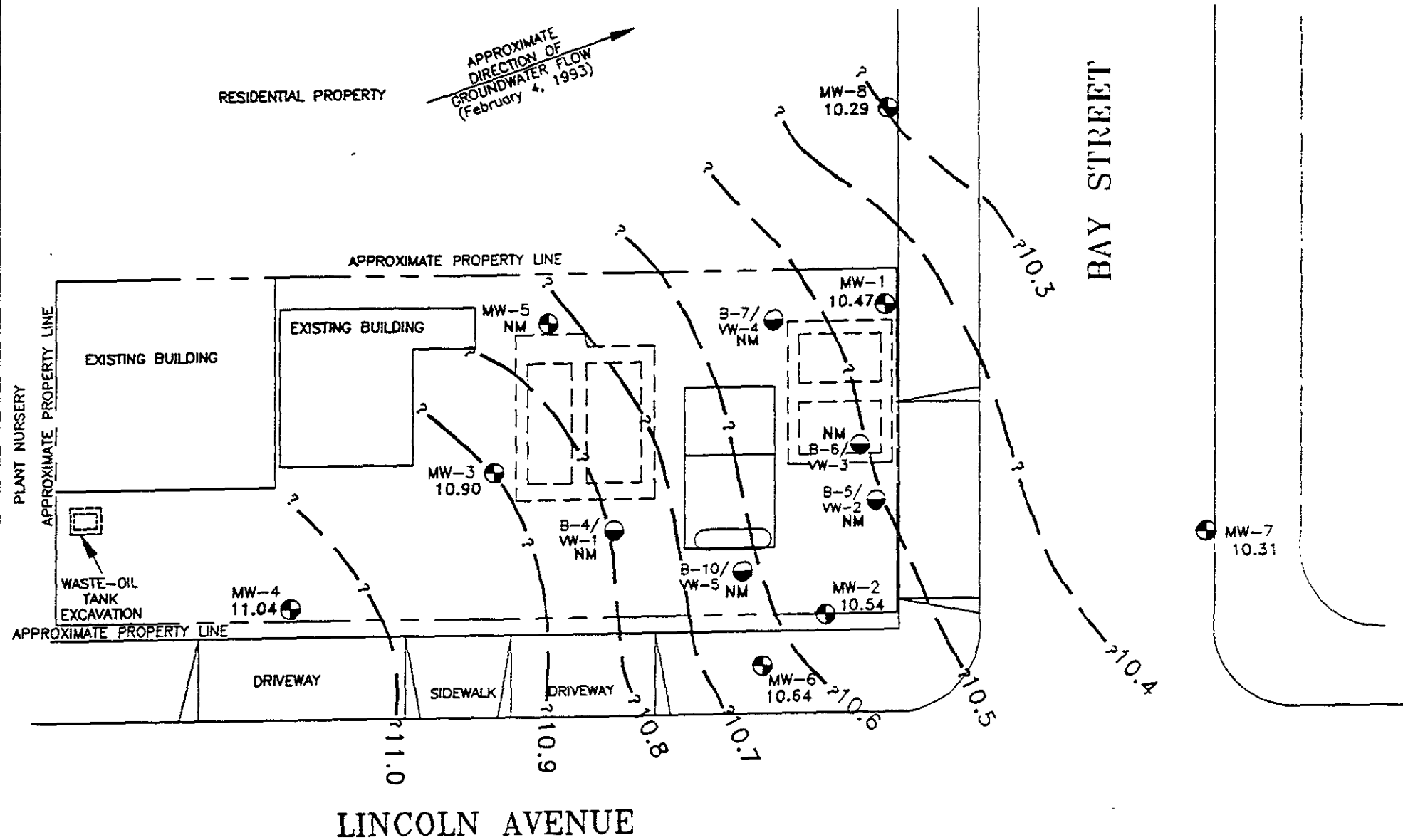
RESNA
Working to Restore Nature

SITE VICINITY MAP
Former Texaco Station
1127 Lincoln Ave.
Alameda, California

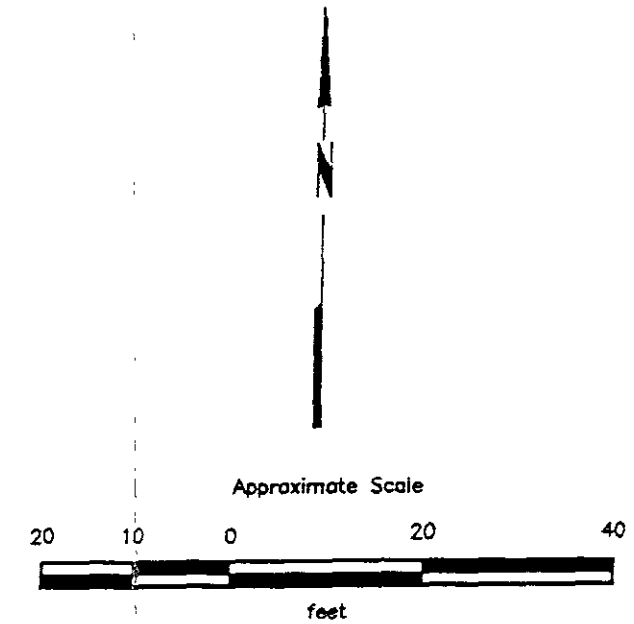
PLATE

1

PROJECT 62074.01



- EXPLANATION**
- 11.0 = Line of equal elevation of groundwater in feet above mean sea level (MSL)
 - 11.04 = Elevation of groundwater in feet above MSL, February 4, 1993
 - MW-8 = Groundwater monitoring well (RESNA, March 1991 and June 1992)
 - NM = Not measured
 - B-10/VW-5 = Vapor well



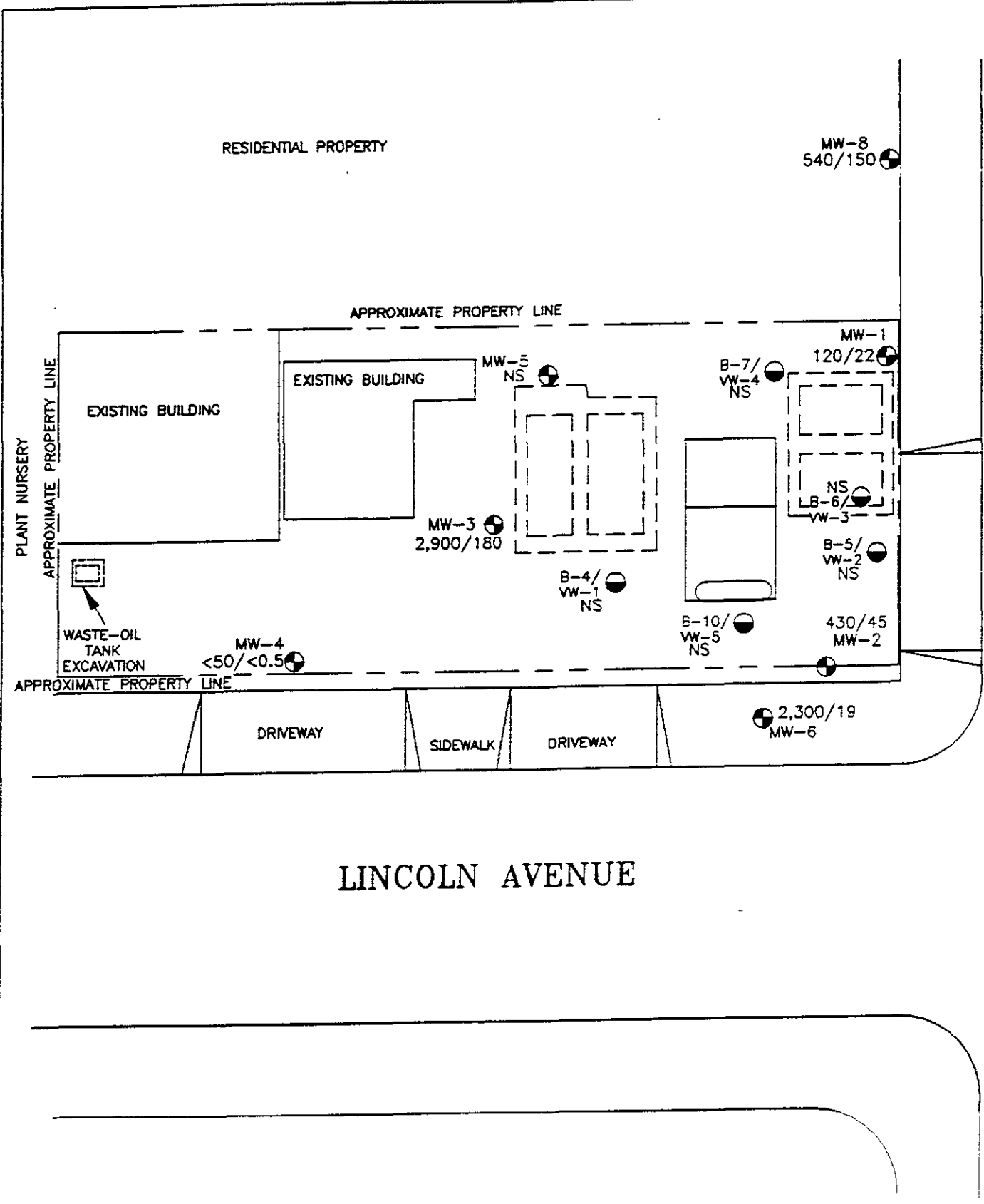
Source: Surveyed by Ron Archer, Civil Engineer, Inc. March 1991.



PROJECT: 62074.01

GROUNDWATER GRADIENT MAP
 Former Bay Street Texaco Station
 1127 Lincoln Avenue
 Alameda, California

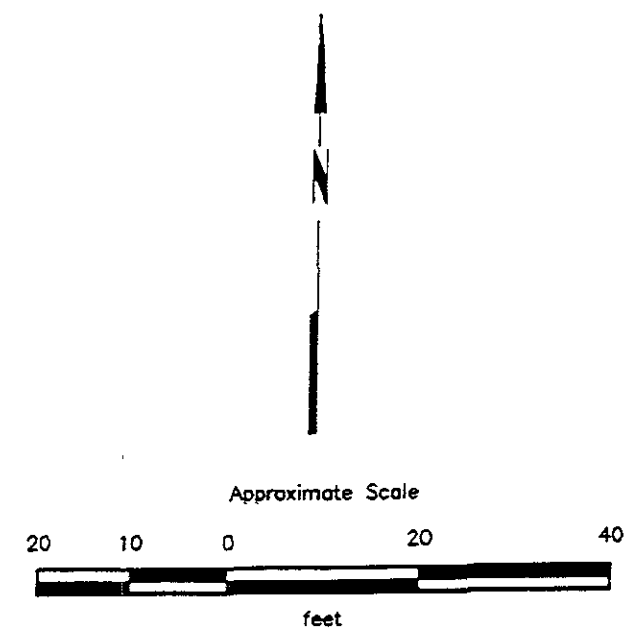
PLATE
 2



BAY STREET

EXPLANATION

- 2,900/80 = Concentration of TPHg/Benzene in groundwater in parts per billion, February 4, 1993
- MW-8 = Groundwater monitoring well (RESNA, March 1991 and June 1992)
- B-10/VW-5 = Vapor well
- NS = Not sampled



Source: Surveyed by Ron Archer, Civil Engineer, Inc. March 1991.

LINCOLN AVENUE



TPHg/BENZENE CONCENTRATIONS IN GROUNDWATER
 Former Bay Street Texaco Station
 1127 Lincoln Avenue
 Alameda, California

PLATE
3

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Bay Street Texaco Station
Alameda, California
(Page 1 of 4)

<u>Well</u>	<u>Date</u>	<u>Elevation of Wellhead</u>	<u>Depth to-Water</u>	<u>Elevation of Groundwater</u>	<u>Floating Product/ Sheen</u>
<u>MW-1</u>	03/22/91	16.49	7.23	9.26	NONE
	04/04/91		6.68	9.81	NONE
	08/13/91		8.59	7.90	NONE
	11/14/91		9.38	7.11	NONE
	02/19/92		6.34	10.15	NONE
	06/25/92		7.60	8.89	NONE
	09/16/92		8.95	7.54	NONE
	11/17/92		9.10	7.39	NONE
	01/26/93		5.63	10.86	NONE
	02/04/93		6.02	10.47	NONE
	03/09/93		5.92	10.57	NONE
<u>MW-2</u>	03/22/91	17.14	7.60	9.54	NONE
	04/04/91		7.07	10.07	NONE
	08/13/91		8.85	8.29	NONE
	11/14/91		9.60	7.54	NONE
	02/19/92		6.96	10.18	NONE
	06/25/92		7.95	9.19	NONE
	09/16/92		9.16	7.98	NONE
	11/17/92		9.40	7.74	NONE
	01/26/93		6.29	10.85	NONE
	02/04/93		6.60	10.54	NONE
	03/09/93		6.36	10.78	NONE
<u>MW-3</u>	03/22/91	16.91	7.43	9.48	NONE
	04/04/91		6.80	10.11	NONE
	08/13/91		8.88	8.03	NONE
	11/14/91		9.68	7.23	NONE
	02/19/92		6.69	10.22	NONE
	06/25/92		7.78	9.13	NONE
	09/16/92		9.24	7.67	NONE
	11/17/92		9.50	7.41	NONE
	01/26/93		5.82	11.09	NONE
	02/04/93		6.01	10.90	NONE
	03/09/93		5.88	11.03	NONE

See notes on page 4 of 4.

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Bay Street Texaco Station
Alameda, California
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Well	Date	Elevation of Wellhead	Depth to-Water	Elevation of Groundwater	Floating Product/Sheen
<u>MW-4</u>	06/25/92	17.18	7.92	9.26	NONE
	09/16/92		9.40	7.78	NONE
	11/17/92		9.63	7.55	NONE
	01/26/93		5.91	11.27	NONE
	02/04/93		6.14	11.04	NONE
	03/09/93		5.81	11.37	NONE
<u>MW-5</u>	06/25/92	16.37	7.35	9.02	NONE
	09/16/92		8.85	7.52	NONE
	11/17/92		9.03	7.34	NONE
	01/26/93		NOT MONITORED		
	02/04/93		INACCESSIBLE		
	03/09/93		5.45	10.92	NONE
<u>MW-6</u>	06/25/92	17.12	7.86	9.26	NONE
	09/16/92		9.12	8.00	NONE
	11/17/92		9.40	7.72	NONE
	01/26/93		6.63	10.49	NONE
	02/04/93		6.48	10.64	NONE
	03/09/93		6.68	10.44	NONE
<u>MW-7</u>	06/25/92	16.71	7.61	9.10	NONE
	09/16/92		8.78	7.93	NONE
	11/17/92		NOT MONITORED		
	01/26/93		6.53	10.18	NONE
	02/04/93		6.40	10.31	NONE
	03/09/93		6.52	10.19	NONE
<u>MW-8</u>	06/25/92	15.91	7.20	8.71	NONE
	09/16/92		8.60	7.31	NONE
	11/17/92		8.85	7.06	NONE
	01/26/93		5.30	10.61	NONE
	02/04/93		5.62	10.29	NONE
	03/09/93		5.56	10.35	NONE

See notes on page 4 of 4

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Bay Street Texaco Station
Alameda, California
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Well	Date	Elevation of Wellhead	Depth to-Water	Elevation of Groundwater	Floating Product/ Sheen
<u>VW-1</u>	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	DRY	NONE
	02/19/92		DRY	DRY	NONE
	06/25/92		7.36	9.47	NONE
	09/16/92		NOT MONITORED		
	11/17/92		NOT MONITORED		
	01/26/93		NOT MONITORED		
	02/04/93		NOT MONITORED		
	03/09/93		NOT MONITORED		
<u>VW-2</u>	03/22/91	17.00	7.59	9.41	NONE
	04/04/91		7.04	9.96	NONE
	08/13/91		DRY	DRY	NONE
	11/14/91		DRY	DRY	NONE
	02/19/92		6.94	10.06	NONE
	06/25/92		8.10	8.90	NONE
	09/16/92		NOT MONITORED		
	11/17/92		NOT MONITORED		
	01/26/93		NOT MONITORED		
	02/04/93		NOT MONITORED		
	03/09/93		NOT MONITORED		
<u>VW-3</u>	03/22/91	16.94	7.71	9.23	NONE
	04/04/91		6.92	10.02	NONE
	08/13/91		8.45	8.49	NONE
	11/14/91		DRY	DRY	NONE
	02/19/92		7.40	9.54	NONE
	06/25/92		7.16	9.78	NONE

See notes on page 4 of 4.

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
Former Bay Street Texaco Station
Alameda, California
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Well	Date	Elevation of Wellhead	Depth to-Water	Elevation of Groundwater	Floating Product/ Sheen
<u>VW-3 Cont'd</u>					
	09/16/92		NOT MONITORED		
	11/17/92		NOT MONITORED		
	01/26/93		NOT MONITORED		
	02/04/93		NOT MONITORED		
	03/09/93		NOT MONITORED		
<u>VW-4</u>					
	03/22/91	16.81	7.66	9.15	SHEEN
	04/04/91		INACCESSIBLE		
	08/13/91		8.40	8.41	NONE
	11/14/91		DRY	DRY	NONE
	02/19/92		5.76	11.05	NONE
	06/25/92		7.23	9.58	NONE
	09/16/92		NOT MONITORED		
	11/17/92		NOT MONITORED		
	01/26/93		NOT MONITORED		
	02/04/93		NOT MONITORED		
	03/09/93		NOT MONITORED		
<u>VW-5</u>					
	03/22/91	17.20	7.67	9.53	SHEEN
	04/04/91		INACCESSIBLE		
	08/13/91		DRY	DRY	NONE
	11/14/91		DRY	DRY	NONE
	02/19/92		7.04	10.16	NONE
	06/25/92		8.09	9.11	NONE
	09/16/92		NOT MONITORED		
	11/17/92		NOT MONITORED		
	01/26/93		NOT MONITORED		
	02/04/93		NOT MONITORED		
	03/09/93		NOT MONITORED		

All measurements in feet.
Elevations above mean sea level.
Depth to water measured in feet below top of casing.

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Bay Street Texaco Station
Alameda, California
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Well Number Date	TPHg	B	T	E	X	TPHd*	VOCs & Semi-VOCs	DO	EG
<u>MW-1</u>									
03/22/91	4,500	1,300	670	180	770	1,100	ND	NA	NA
08/13/91	850	260	51	13	48	NA	NA	NA	NA
11/14/91	<30	<0.30	<0.30	<0.30	<0.30	NA	NA	NA	NA
02/19/92	440	14	14	2.1	9.9	NA	NA	4.0	<10
06/25/92	4,000	680	110	73	140	NA	NA	NA	NA
09/16/92	3,400	880	28	41	53	NA	NA	NA	NA
11/17/92	730	250	22	12	27	NA	NA	NA	NA
02/04/93	120	22	3.1	3.3	10	NA	NA	NA	NA
<u>MW-2</u>									
03/22/91	1,100	100	20	63	220	140	ND	NA	NA
08/13/91	1,100	270	4.7	16	49	NA	NA	NA	NA
11/14/91	870	56	8.9	21	46	NA	NA	NA	NA
02/19/92	2,100	57	5.6	9.1	75	NA	NA	3.2	NA
06/25/92	4,700	590	24	290	160	NA	NA	NA	NA
09/16/92	5,700	740	8	370	77	NA	NA	NA	NA
11/17/92	840	94	<0.5	93	14	NA	NA	NA	NA
02/04/93	430	45	0.5	20	30	NA	NA	NA	NA
<u>MW-3</u>									
03/22/91	2,500	390	27	240	780	770	ND	NA	NA
08/13/91	1,300	180	3.8	79	200	NA	NA	NA	NA
11/14/91	870	89	9	30	82	NA	NA	NA	NA
02/19/92	990	<0.5	<0.5	2.0	72	NA	NA	3.4	NA
06/25/92	4,900	350	11	330	570	NA	NA	NA	NA
09/17/92	7,300	690	10	450	780	NA	NA	NA	NA
11/17/92	1,200	160	2.1	83	160	NA	NA	NA	NA
02/04/93	2,900	180	13	210	350	NA	NA	NA	NA
<u>MW-4</u>									
06/25/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
09/17/92	98	0.6	<0.5	1.2	7.7	NA	NA	NA	NA
11/17/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
02/04/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
<u>MW-5</u>									
06/25/92	18,000	310	1,200	750	2,400	NA	NA	NA	NA
09/17/92	24,000	700	2,200	900	2,400	NA	NA	NA	NA
11/17/92	14,000	1,000	1,500	730	1,900	NA	NA	NA	NA
02/04/93			NOT	SAMPLED					

See notes on page 2 of 2

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TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Bay Street Texaco Station
Alameda, California
(Page 2 of 2)

Well Number Date	TPHg	B	T	E	X	TPHd*	VOCs & Semi-VOCs	DO	EG
<u>MW-6</u>									
06/25/92	990	10	240	55	310	NA	NA	NA	NA
09/17/92	1,200	26	4.7	6.5	140	NA	NA	NA	NA
11/17/92	670	10	3.5	28	94	NA	NA	NA	NA
02/04/93	2,300	19	5.4	27	220	NA	NA	NA	
<u>MW-7</u>									
06/25/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
09/16/92	<50	1.3	<0.5	<0.5	0.9	NA	NA	NA	NA
11/17/92			NOT	SAMPLED					
02/04/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
<u>MW-8</u>									
06/25/92	11,000	1,100	29	150	190	NA	NA	NA	NA
09/16/92	14,000	3,500	47	25	85	NA	NA	NA	NA
11/17/92	4,700	1,700	12	8.0	22	NA	NA	NA	NA
02/04/93	540	150	3.7	5.2	10	NA	NA	NA	
MCLs	—	1.0	—	680	1,750	—	—	—	—
DWAL	—	—	100	—	—	—	—	—	—

Results in parts per billion (ppb)

- TPHg : Total petroleum hydrocarbons as gasoline (analyzed by EPA Method 5030).
- TPHd : Total petroleum hydrocarbons as diesel (analyzed by EPA Method 3510).
- BTEX : Measured by EPA Method 602/(624).
- B: benzene, T: toluene, E: ethylbenzene, X: total xylene isomers.
- : Not Applicable
- MCLs : Adopted Maximum Contaminant Levels in Drinking Water, DHS (October 1990)
- DWAL : Recommended Drinking Water Action Levels, DHS (October 1990)
- ND : Below laboratory detection limit.
- NA : Not Analyzed
- * : 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."
- VOCs : Volatile organic compounds (analyzed by EPA Method 624/8240).
- Semi-VOCs : Semi-volatile organic compounds (analyzed by EPA Method 8270).
- DO : Dissolved oxygen in parts per million (ppm).
- EG : Ethylene glycol in ppm.

APPENDIX A

**GROUNDWATER SAMPLING PROTOCOL
AND WELL PURGE DATA SHEETS**

GROUNDWATER SAMPLING PROTOCOL

The static water level and floating product level, if present, in each well that contained water was measured with an ORS Interphase Probe Model No. 1068018, or Solonist Water Level Indicator; these instruments are accurate to the nearest 0.01 foot. These groundwater depths were subtracted from wellhead elevations, including corrections for product thickness, when necessary, for gradient evaluation by multiplying product thickness (PT) by a correction factor 0.8 and subtracting from the DTW (Adjusted DTW = DTW - [PT x 0.8]).

Water samples collected for subjective evaluation were collected by gently lowering approximately half the length of a new disposable or 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. All Teflon® bailers are triple washed with Alconox® and triple rinsed with distilled water prior to use.

Before water samples were collected from the groundwater monitoring wells, the wells were purged until stabilization of the temperature, pH, and conductivity were obtained. Approximately four well casing volumes were purged before those characteristics stabilized. 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 of water purged/gallons in 1 well casing volume = well casing volumes removed.

After purging, each well was allowed to recharge to at least 80% of the initial water level. Water samples were collected with a new disposable or Teflon® bailer, and carefully 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 promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain of Custody Record, to a California-certified laboratory.

WELL PURGE DATA SHEET

Project Name: Texaco--1127 Lincoln Avenue

Job No. 62074.01

Date: 02/04/93

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Well No. MW-1

Time Started 10:45

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)
10:45	Start purging MW-1			
10:45	0	59.3	7.67	690
10:54	8.75	60.0	7.62	740
11:03	17.5	60.8	7.61	740
11:19	26.25	61.4	7.89	740
11:28	35.0	61.8	7.60	740
11:29	Stop purging MW-1			

Notes:

NM = Not Measured
 Well Diameter (inches) : 4
 Depth to Bottom (feet) : 19.25
 Depth to Water - initial (feet) : 6.02
 Depth to Water - final (feet) : 6.02
 % recovery : 100
 Time Sampled : 12:40
 Gallons per Well Casing Volume : 8.73
 Gallons Purged : 35.0
 Well Casing Volume Purged : 4.01
 Approximate Pumping Rate (gpm) : 1.0

WELL PURGE DATA SHEET

Project Name: Texaco--1127 Lincoln Avenue

Job No. 62074.01

Date: 02/04/93

Page 1 of 1

Well No. MW-2

Time Started 12:00

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)
12:00	Start purging MW-2			
12:00	0	62.1	7.43	710
12:08	8.5	62.9	7.40	780
12:16	17.0	63.2	7.43	700
12:24	25.5	63.7	7.47	620
12:32	34.0	64.1	7.52	610
12:33	Stop purging MW-2			

Notes:

NM = Not Measured
 Well Diameter (inches) : 4
 Depth to Bottom (feet) : 19.30
 Depth to Water - initial (feet) : 6.60
 Depth to Water - final (feet) : 6.60
 % recovery : 100
 Time Sampled : 13:15
 Gallons per Well Casing Volume : 8.40
 Gallons Purged : 34.0
 Well Casing Volume Purged : 4.05
 Approximate Pumping Rate (gpm) : 1.0

WELL PURGE DATA SHEET

Project Name: Texaco--1127 Lincoln Avenue

Job No. 62074.01

Date: 02/04/93

Page 1 of 1

Well No. MW-3

Time Started 14:15

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)
14:15	Start purging MW-3			
14:15	0	62.6	8.05	760
14:24	9	63.2	8.03	850
14:33	18	62.3	7.42	780
14:47	27	61.9	7.46	790
14:56	36	62.2	7.43	780
14:57	Stop purging MW-3			
Notes:				
<p style="text-align: center;">NM = Not Measured</p> <p style="text-align: center;">Well Diameter (inches) : 4</p> <p style="text-align: center;">Depth to Bottom (feet) : 19.56</p> <p style="text-align: center;">Depth to Water - initial (feet) : 6.01</p> <p style="text-align: center;">Depth to Water - final (feet) : 6.01</p> <p style="text-align: center;">% recovery : 100</p> <p style="text-align: center;">Time Sampled : 16:15</p> <p style="text-align: center;">Gallons per Well Casing Volume : 8.94</p> <p style="text-align: center;">Gallons Purged : 36.0</p> <p style="text-align: center;">Well Casing Volume Purged : 4.03</p> <p style="text-align: center;">Approximate Pumping Rate (gpm) : 1.0</p>				

WELL PURGE DATA SHEET

Project Name: Texaco--1127 Lincoln Avenue

Job No. 62074.01

Date: 02/04/93

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Well No. MW-4

Time Started 15:25

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)
15:25	Start purging MW-4			
15:25	0	61.4	7.66	550
15:34	9.5	62.4	7.62	620
15:43	19	61.7	7.59	580
15:57	28.5	61.9	7.62	530
16:06	38.0	62.1	7.60	550
16:07	Stop purging MW-4			
Notes:				
<p style="text-align: center;">NM = Not Measured</p> <p style="text-align: center;">Well Diameter (inches) : 4</p> <p style="text-align: center;">Depth to Bottom (feet) : 20.20</p> <p style="text-align: center;">Depth to Water - initial (feet) : 6.14</p> <p style="text-align: center;">Depth to Water - final (feet) : 6.14</p> <p style="text-align: center;">% recovery : 100</p> <p style="text-align: center;">Time Sampled : 16:45</p> <p style="text-align: center;">Gallons per Well Casing Volume : 9.28</p> <p style="text-align: center;">Gallons Purged : 38.0</p> <p style="text-align: center;">Well Casing Volume Purged : 4.09</p> <p style="text-align: center;">Approximate Pumping Rate (gpm) : 1.0</p>				

WELL PURGE DATA SHEET

Project Name: Texaco--1127 Lincoln Avenue

Job No. 62074.01

Date: 02/04/93

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Well No. MW-6

Time Started 13:30

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)
13:30	Start purging MW-6			
13:30	0	64.8	7.45	830
13:35	2.3	63.8	7.88	850
13:40	4.6	63.0	7.40	860
13:50	6.9	64.7	7.44	790
13:55	9.2	64.1	7.41	790
13:56	Stop purging MW-6			
Notes:				
<p style="text-align: center;">NM = Not Measured</p> <p style="text-align: center;">Well Diameter (inches) : 2</p> <p style="text-align: center;">Depth to Bottom (feet) : 19.90</p> <p style="text-align: center;">Depth to Water - initial (feet) : 6.48</p> <p style="text-align: center;">Depth to Water - final (feet) : 6.48</p> <p style="text-align: center;">% recovery : 100</p> <p style="text-align: center;">Time Sampled : 15:05</p> <p style="text-align: center;">Gallons per Well Casing Volume : 2.28</p> <p style="text-align: center;">Gallons Purged : 9.2</p> <p style="text-align: center;">Well Casing Volume Purged : 4.04</p> <p style="text-align: center;">Approximate Pumping Rate (gpm) : 0.50</p>				

WELL PURGE DATA SHEET

Project Name: Texaco--1127 Lincoln Avenue

Job No. 62074.01

Date: 02/04/93

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Well No. MW-7

Time Started 10:00

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)
10:00	Start purging MW-7			
10:00	0	61.0	7.61	540
10:04	2.5	61.0	7.60	530
10:08	5.0	62.1	7.57	550
10:16	7.5	61.9	7.63	560
10:20	10.0	62.4	7.60	570
10:21	Stop purging MW-7			
Notes:				
<p style="text-align: center;">NM = Not Measured</p> <p style="text-align: center;">Well Diameter (inches) : 2</p> <p style="text-align: center;">Depth to Bottom (feet) : 20.00</p> <p style="text-align: center;">Depth to Water - initial (feet) : 6.40</p> <p style="text-align: center;">Depth to Water - final (feet) : 6.40</p> <p style="text-align: center;">% recovery : 100</p> <p style="text-align: center;">Time Sampled : 14:45</p> <p style="text-align: center;">Gallons per Well Casing Volume : 2.31</p> <p style="text-align: center;">Gallons Purged : 10.0</p> <p style="text-align: center;">Well Casing Volume Purged : 4.33</p> <p style="text-align: center;">Approximate Pumping Rate (gpm) : 0.5</p>				

WELL PURGE DATA SHEET

Project Name: Texaco--1127 Lincoln Avenue

Job No. 62074.01

Date: 02/04/93

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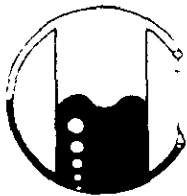
Well No. MW-8

Time Started 09:00

TIME (hr)	GALLONS (cum.)	TEMP. (F)	pH	CONDUCT. (micromho)
09:00	Start purging MW-8			
09:00	0	57.5	7.90	260
09:09	9.5	59.6	7.97	280
09:18	19.0	60.0	7.92	300
09:31	28.5	60.1	7.89	320
09:40	38.0	60.1	7.86	330
09:41	Stop purging MW-8			
Notes:				
<p style="text-align: center;">NM = Not Measured</p> <p style="text-align: center;">Well Diameter (inches) : 4</p> <p style="text-align: center;">Depth to Bottom (feet) : 19.70</p> <p style="text-align: center;">Depth to Water - initial (feet) : 5.62</p> <p style="text-align: center;">Depth to Water - final (feet) : 5.62</p> <p style="text-align: center;">% recovery : 100</p> <p style="text-align: center;">Time Sampled : 10:30</p> <p style="text-align: center;">Gallons per Well Casing Volume : 9.30</p> <p style="text-align: center;">Gallons Purged : 38.0</p> <p style="text-align: center;">Well Casing Volume Purged : 4.09</p> <p style="text-align: center;">Approximate Pumping Rate (gpm) : 1.0</p>				

APPENDIX B

**LABORATORY ANALYSIS 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

FEB 1993

62074.01\1718\012452

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

Date Sampled: 02-04-93
Date Received: 02-09-93
Date Analyzed: 02-17-93

Sample Number

023114

Sample Description

Project # 62074.01
Texaco - Alameda
1127 Lincoln
BB1 WATER

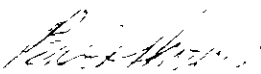
ANALYSIS

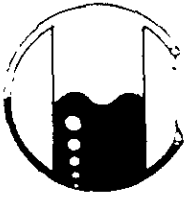
	Detection Limit ----- ppb	Sample Results ----- ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

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



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

Date Sampled: 02-04-93
Date Received: 02-09-93
Date Analyzed: 02-17-93

Sample Number

023115

Sample Description

Project # 62074.01
Texaco - Alameda
1127 Lincoln
MW-1 WATER

ANALYSIS

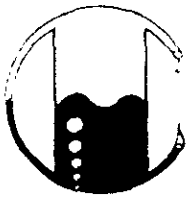
	Detection Limit ----- ppb	Sample Results ----- ppb
Total Petroleum Hydrocarbons as Gasoline	50	120
Benzene	0.5	22
Toluene	0.5	3.1
Xylenes	0.5	10
Ethylbenzene	0.5	3.3

QA/QC: Sample blank is none detected
Spike Recovery is 95%
Duplicate Deviation is 2.4%

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

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RESNA Industries
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Attn: Phillip Mayberry
Project Manager

Date Sampled: 02-04-93
Date Received: 02-09-93
Date Analyzed: 02-17-93

Sample Number

023116

Sample Description

Project # 62074.01
Texaco - Alameda
1127 Lincoln
MW-2 WATER


ANALYSIS

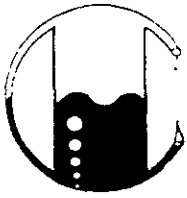
	Detection Limit ----- ppb	Sample Results ----- ppb
Total Petroleum Hydrocarbons as Gasoline	50	430
Benzene	0.5	45
Toluene	0.5	0.5
Xylenes	0.5	30
Ethylbenzene	0.5	20

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)

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RESNA Industries
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San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 02-04-93
Date Received: 02-09-93
Date Analyzed: 02-17-93

Sample Number
023117

Sample Description
Project # 62074.01
Texaco - Alameda
1127 Lincoln
MW-3 WATER


ANALYSIS

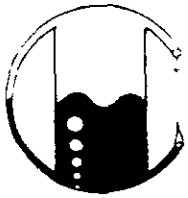
	<u>Detection Limit</u> ppb	<u>Sample Results</u> ppb
Total Petroleum Hydrocarbons as Gasoline	50	2,900
Benzene	0.5	180
Toluene	0.5	13
Xylenes	0.5	350
Ethylbenzene	0.5	210

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)

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RESNA Industries
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Attn: Phillip Mayberry
Project Manager

Date Sampled: 02-04-93
Date Received: 02-09-93
Date Analyzed: 02-17-93

Sample Number
023118

Sample Description
Project # 62074.01
Texaco - Alameda
1127 Lincoln
MW-4 WATER


ANALYSIS

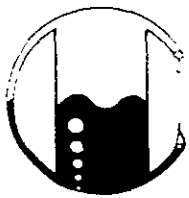
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

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) = ($\mu\text{g/L}$)

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RESNA Industries
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Project Manager

Date Sampled: 02-04-93
Date Received: 02-09-93
Date Analyzed: 02-17-93

Sample Number

023119

Sample Description

Project # 62074.01
Texaco - Alameda
1127 Lincoln
MW-6 WATER

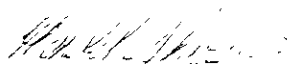
ANALYSIS

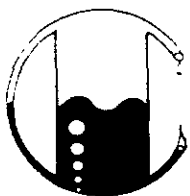
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	2,300
Benzene	0.5	19
Toluene	0.5	5.4
Xylenes	0.5	220
Ethylbenzene	0.5	27

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
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RESNA Industries
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San Jose, CA 95118
Attn: Phillip Mayberry
Project Manager

Date Sampled: 02-04-93
Date Received: 02-09-93
Date Analyzed: 02-17-93

Sample Number

023120

Sample Description

Project # 62074.01
Texaco - Alameda
1127 Lincoln
MW-7 WATER

ANALYSIS

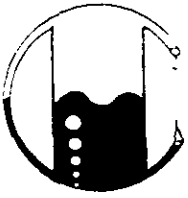
	<u>Detection Limit</u>	<u>Sample Results</u>
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

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



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62074.01\1718\012452

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

Date Sampled: 02-04-93
Date Received: 02-09-93
Date Analyzed: 02-17-93

Sample Number
023121

Sample Description
Project # 62074.01
Texaco - Alameda
1127 Lincoln
MW-8 WATER

ANALYSIS

	<u>Detection Limit</u> ppb	<u>Sample Results</u> ppb
Total Petroleum Hydrocarbons as Gasoline	50	540
Benzene	0.5	150
Toluene	0.5	3.7
Xylenes	0.5	10
Ethylbenzene	0.5	5.2

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

PROJECT NO		PROJECT NAME / SITE						ANALYSIS REQUESTED										P.O. #					
6201401		752000 1121 Lincoln, Alameda.						NO CONTAINERS	SAMPLE TYPE	BTEX (602/8020) TPHg (8015) TPHg (8015) TOC 418 1/5520 601/8015 624/8240 625/8270													
SAMPLERS		(SIGN)																					
Robert Adams		(PRINT) Robin A. Archer																					
SAMPLE IDENTIFICATION		DATE	TIME	COMP	GRAB	PRE'S USED	ICED																REMARKS
B-1		2/4/93	10:25			HCL	Y	2															
MS 1			12:40					2															
MS 2			1:15					2															
MS 3			4:15					2															
MS 4			4:45					2															
MS 6			3:05					2															
MS 7			11:45					2															
MS 8		↓	10:30				↓	2															
RELINQUISHED BY		DATE	TIME	RECEIVED BY		LABORATORY		PLEASE SEND RESULTS TO Phil Mayberry Resna, San Jose.															
RELINQUISHED BY		DATE	TIME	RECEIVED BY		RECEIVED TURNAROUND TIME																	
RELINQUISHED BY		DATE	TIME	RECEIVED BY		RECEIPT CONDITION																	
RELINQUISHED BY		DATE	TIME	RECEIVED BY LABORATORY		PROJECT MANAGER																	
Robert Adams		2/5/93	7:00 AM	Mobile Chem Labs		NORMAL																	
[Signature]		2/29/93	11:25	D. Archer		D. Archer																	