

Texaco Refining and Marketing Inc 108 Cutting Boulevard Richmond CA 94804

March 30, 1993

ENV - STUDIES, SURVEYS & REPORTS Quarterly Technical Report 2200 E. 12th St., Oakland, CA

Mr. Richard Hiett San Francisco Bay Regional Water Quality Control Board 2101 Webster Street, Suite 500 Oakland, CA 94612

Dear Mr. Hiett:

Enclosed is a copy of our Quarterly Technical Report for our former Texaco Service Station located at 2200 East 12th Street in Oakland, California.

Please call me at (510) 236-1770 if you have any questions.

Best Regards,

R.R. Zielinski Area Supervisor

RRZ:kep

Enclosure

cc: Mr. Barney Chan

Alameda County Environmental

Health Department 80 Swan Way, Room 200 Oakland, CA 94621

pr: Knp

HR/P

2200CVR.RH



3315 Almaden Expressway, Suite 34 San Jose, CA 95118 Phone: (408) 264-7723 FAX: (408) 264-2435

LETTER REPORT QUARTERLY GROUNDWATER MONITORING Third Quarter 1992

at
Former Texaco Station
2200 East 12th Street
Oakland, California

62079.01

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3315 Almaden Expressway, Suite 34 San Jose, CA 95118 Phone: (408) 264-7723 FAX: (408) 264-2435

> March 9, 1993 1130RZIE 62079.01

Mr. Ron R. Zielinski Texaco Environmental Services 108 Cutting Boulevard Richmond, California 94804

Subject:

Results of Groundwater Monitoring and Sampling for the Third Quarter 1992,

at the Former Texaco Station located at 2200 East 12th Street in Oakland,

California.

Mr. Zielinski:

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 2200 East 12th Street in Oakland, California (Plate 1, Site Vicinity Map) for the third quarter 1992 (July through September 1992). On September 14, 1992, 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 5 of the monitoring wells (MW-9A, MW-9B, MW-9C, MW-9D, and MW-9I) associated with this site. Wells MW-9F, MW-9G, and MW-9H were not sampled because of traffic hazards. 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 decreased an average of about 0.6 feet from the elevations reported the previous quarter. The Groundwater Gradient Map (Plate 2) shows the groundwater beneath the site to be flowing towards the northwest with a hydraulic



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gradient of approximately 0.01 (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) (below the method detection limit [MDL]) to 110 ppb (MW-9B). Dissolved benzene concentrations ranged from less than 0.5 ppb (below the MDL) to 9.6 ppb (MW-9B). 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 are included in Appendix B.

PURGE WATER DISPOSAL

On November 16, 1992, 80 gallons of purge water generated during purging and sampling of the 5 monitoring wells was transported to Gibson Environmental in Redwood City, California for disposal.



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

Sincerely, **RESNA** Industries Inc.

Zurvic Buckhal

Jeanne Buckthal Geologic Technician

KOISTERED GEOLOGIS JAMES LEWIS, NELSON

> No. 1463 CERTIFIED

ENGINEERING GEOLOGIST OF CALIFORNIE GEOLOGIST

James L. Nelson

Certified Engineering Geologist No. 1463

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:

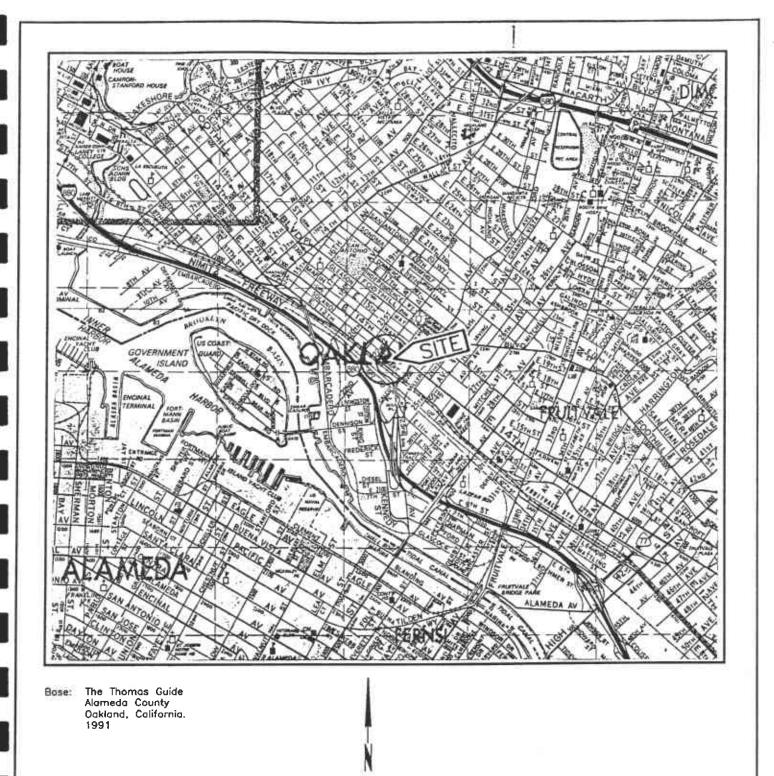
Cumulative Results of Laboratory Analyses of Groundwater

Samples

Appendix A, Groundwater Sampling Protocol and Well Purge Data Sheets

Appendix B, Laboratory Analysis Reports and Chain of Custody

Documentation



LEGEND

Site Location

Approximate Scale

2200 1100 0 2200 4400

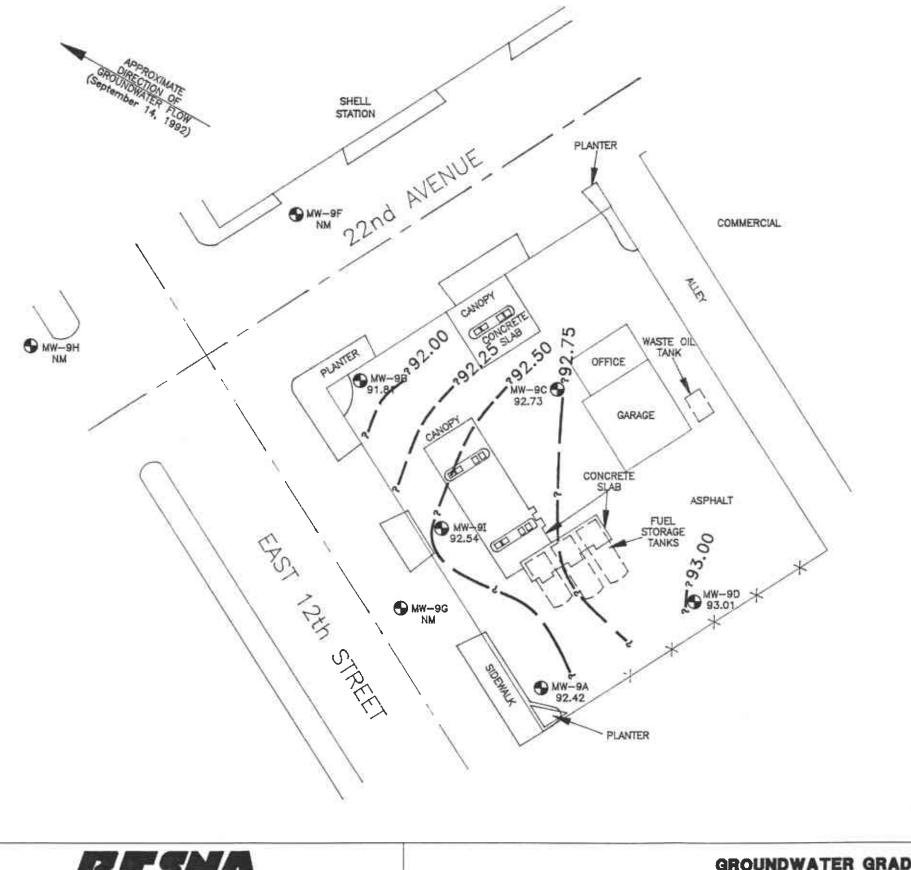
feet

Working to Restore Nature

PROJECT 62079.01

SITE VICINITY MAP Former Texaco Station 2200 East 12th Street Oakland, California PLATE

Η



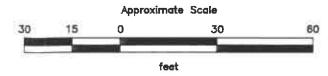
EXPLANATION

MW-9I = Monitoring we (1988)

93.00 = Une of equal elevation of groundwater in feet relative to an arbitrary benchmark

93.01 = Elevation of groundwater in feet relative to an arbitrary benchmark, September 14, 1992

NM = Not monitored



Source: Modified from site plan provided by Harding Lawson Associates, dated July 20, 1982.

Working to Restore Nature

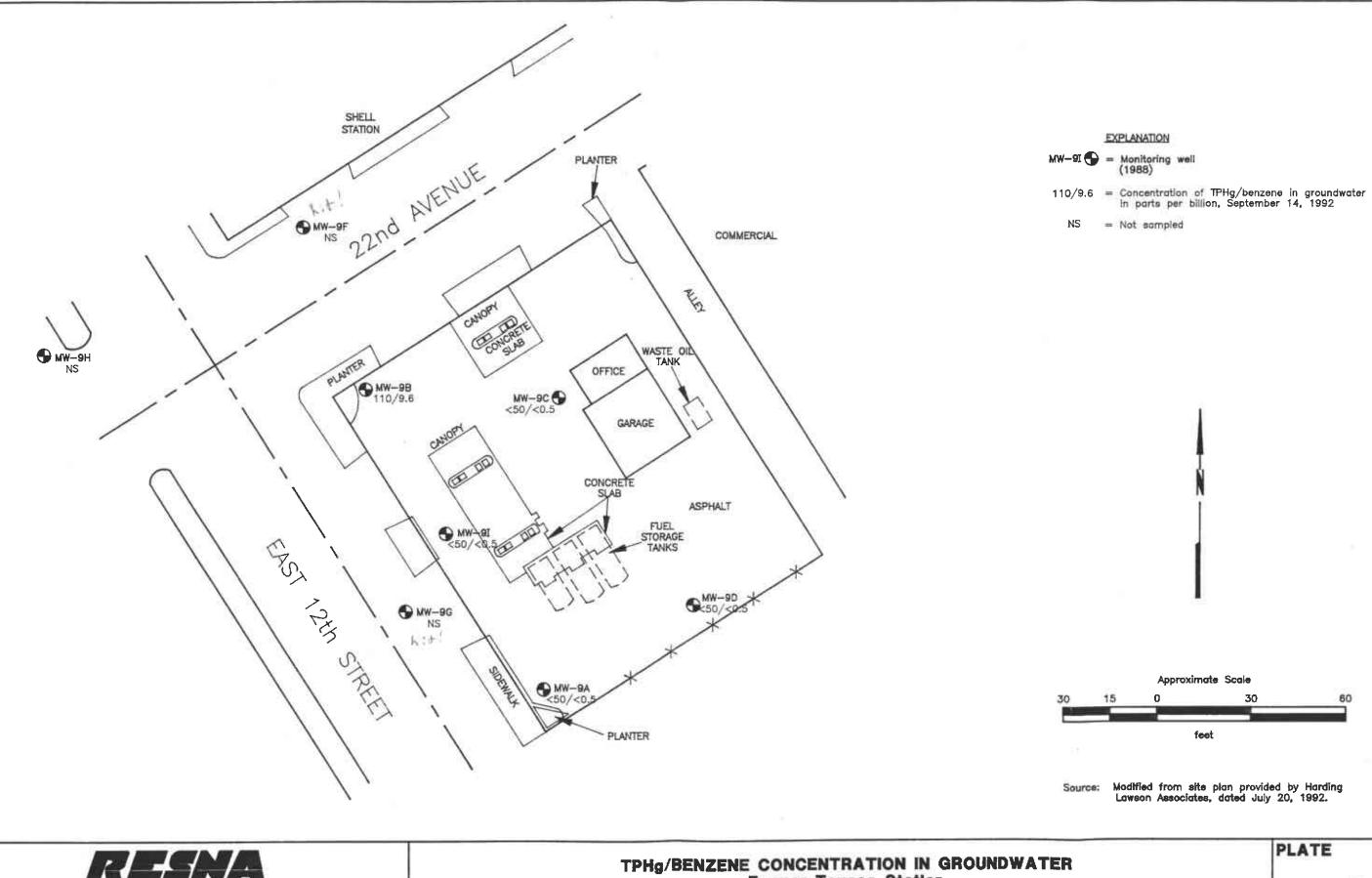
GROUNDWATER GRADIENT MAP Former Texaco Station 2200 East 12th Street Oakland, California PLATE

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TPHg/BENZENE CONCENTRATION IN GROUNDWATER
Former Texaco Station
2200 East 12th Street Oakland, California

PLATE

3



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TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA

Former Texaco Station 2200 East 12th Street Oakland, California (Page 1 of 3)

MW-9A HIA 10/12/89 100.07 7.25 92.82	Well	Date	Wellhead Elevation*	Depth to Water	Groundwater Elevation*	
HILA 10/12/89 100.07 7.25 92.82 99/20/90 NA NA NA 10/13/90 7.23 92.84 101/11/91 6.96 93.11 6.74 93.33 107/29/91 7.22 92.85 10/25/91 7.49 92.58 10/25/91 7.49 92.58 10/25/92 6.93 93.14 10.75/92 6.95 93.12 RESNA 09/14/92 7.65 92.42 10/19/90 6.28 92.13 10/19/90 6.28 92.13 10/19/90 6.21 92.20 01/11/91 6.21 92.20 01/11/91 6.21 92.20 01/11/91 6.21 92.20 10/13/91 5.74 92.67 07/29/91 6.23 92.18 10/25/91 6.42 91.99 10/25/91 6.42 91.99 10/25/91 6.42 91.99 10/25/91 6.44 91.99 10/25/91 6.45 19.99 10/25/91 6.46 19.99 10/25/91 6.47 19.99 10/25/91 6.48 19.99 10/25/91 6.59 92.49 RESNA 09/14/92 6.60 91.81 10/25/91 6.96 92.77 01/11/91 6.50 99.73 6.99 92.74 09/20/90 NA NA NA 10/19/90 6.96 92.77 01/11/91 6.50 99.23 13 04/30/91 6.32 93.41 07/29/91 6.92 92.81 10/25/91 7.13 92.60 02/05/92 6.44 93.29 05/05/92 6.44 93.29 05/05/92 6.44 93.29 05/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 10/11/91 7.79 93.49 04/30/91 8.43 93.03 01/11/91 04/30/91 8.43 93.03 01/11/91 04/30/91 Well Inaccessible	MW-9A					
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10/19/90 7.23 92.84 01/11/91 6.96 93.11 04/30/91 7.22 92.85 10/25/91 7.22 92.85 10/25/91 7.49 92.58 02/05/92 6.93 93.14 05/u5/92 6.95 93.12 RESNA 09/14/92 7.65 92.42 MW-9B HLA 10/12/89 98.41 6.14 92.27 09/20/90 6.28 92.13 10/19/90 6.21 92.20 01/11/91 6.21 92.20 01/11/91 6.21 92.20 01/11/91 6.21 92.20 04/30/91 5.74 92.67 07/29/91 6.23 92.18 10/25/91 6.42 91.99 02/05/92 5.95 92.46 05/05/92 5.95 92.46 05/05/92 5.95 92.46 05/05/92 5.95 92.46 05/05/92 6.60 91.81 MW-9C HILA 10/12/89 99.73 6.99 92.74 09/20/90 NA NA 10/19/90 6.96 92.77 01/11/91 6.52 93.13 04/30/91 6.52 93.41 07/29/91 6.52 93.33 04/30/91 6.53 93.33 04/30/91 6.53 93.33 04/30/92 6.50 93.23 RESNA 09/34/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.43 93.03 01/11/91 7.97 93.49 Well Inaccessible					NA.	
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107/25/91 7.22 92.85 10/25/91 7.49 92.58 02/05/92 6.93 93.14 05/05/92 7.65 93.12 RESNA 09/14/92 7.65 92.42		01/11/91		6.96	93.11	
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10/19/90 01/11/91 02/05/91 04/30/91 07/29/91 02/05/92 05/05/92 05/05/92 09/14/92 HILA 10/12/89 10/12/91 04/30/91 04/30/91 06.23 92.18 10/25/91 05/05/92 05/				6.28	92.13	
01/11/91 6.21 92.20 04/30/91 5.74 92.67 07/29/91 6.23 92.18 10/25/91 6.24 91.99 02/05/92 5.95 92.46 05/05/92 5.92 92.49 RESNA 09/14/92 6.60 91.81 MW-9C HILA 10/12/89 99.73 6.99 92.74 09/20/90 NA NA NA 10/19/90 6.96 92.77 01/11/91 6.60 93.13 04/30/91 6.32 93.41 07/29/91 6.92 92.81 10/25/91 7.13 92.60 02/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HILA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/11/91 7.97 93.49 MW-9D HILA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/11/91 7.97 93.49 04/30/91 Well Inaccessible					92.20	
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10/25/91 6.42 91.99 02/05/92 5.95 92.46 05/05/92 5.92 92.49 RESNA 09/14/92 6.60 91.81 MW-9C HLA 10/12/89 99.73 6.99 92.74 09/20/90 NA NA 10/19/90 6.96 92.77 01/11/91 6.60 93.13 04/30/91 6.32 93.41 07/29/91 6.92 92.81 10/25/91 7.13 92.60 02/05/92 6.44 93.29 05/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 Well Inaccessible				6.23	92.18	
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RESNA 09/14/92 5.92 92.49 RESNA 09/14/92 6.60 91.81 MW-9C HLA 10/12/89 99.73 6.99 92.74 09/20/90 NA NA 10/19/90 6.96 92.77 01/11/91 6.60 93.13 04/30/91 6.32 93.41 07/29/91 6.92 92.81 10/25/91 7.13 92.60 02/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 Well Inaccessible						
RESNA 09/14/92 6.60 91.81 MW-9C HLA 10/12/89 99.73 6.99 92.74 09/20/90 NA NA 10/19/90 6.96 92.77 01/11/91 6.60 93.13 04/30/91 6.32 93.41 07/29/91 6.92 92.81 10/25/91 7.13 92.60 02/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible						
HLA 10/12/89 99.73 6.99 92.74 09/20/90 NA NA 10/19/90 6.96 92.77 01/11/91 6.60 93.13 04/30/91 6.32 93.41 07/29/91 6.92 92.81 10/25/91 7.13 92.60 02/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible	RESNA					
HLA 10/12/89 99.73 6.99 92.74 09/20/90 NA NA 10/19/90 6.96 92.77 01/11/91 6.60 93.13 04/30/91 6.32 93.41 07/29/91 6.92 92.81 10/25/91 7.13 92.60 02/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible	MW-9C					
09/20/90		10/12/89	99.73	6.99	92.74	
10/19/90 6.96 92.77 01/11/91 6.60 93.13 04/30/91 6.32 93.41 07/29/91 6.92 92.81 10/25/91 7.13 92.60 02/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible						
01/11/91 6.60 93.13 04/30/91 6.32 93.41 07/29/91 6.92 92.81 10/25/91 7.13 92.60 02/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HIA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible					92.77	
04/30/91 6.32 93.41 07/29/91 6.92 92.81 10/25/91 7.13 92.60 02/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible				6.60	93.13	
07/29/91 6.92 92.81 10/25/91 7.13 92.60 02/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible					93.41	
10/25/91 7.13 92.60 02/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible					92.81	
02/05/92 6.44 93.29 05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible					92.60	
05/05/92 6.50 93.23 RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible				6.44		•
RESNA 09/14/92 7.00 92.73 MW-9D HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible				6.50	93.23	
HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible	RESNA				92.73	
HLA 10/12/89 101.46 8.40 93.06 09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 Well Inaccessible	MW-9D					
09/20/90 8.47 92.99 10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible		10/12/89	101.46	8.40	93.06	
10/19/90 8.43 93.03 01/11/91 7.97 93.49 04/30/91 Well Inaccessible						
01/11/91 7.97 93.49 04/30/91 Well Inaccessible						
04/30/91 Well Inaccessible						
- 1 - 1 -				Well Is		

See notes on page 3 of 3.



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TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA

Former Texaco Station 2200 East 12th Street Oakland, California (Page 2 of 3)

<u>Well</u>	Date	Wellhead Elevation*	Depth to Water	Groundwater Elevation*	
MW-9D Con't					
	10/25/91		8.54	92.92	
	02/05/92		7.78	93.68	
	05/05/92		7.90	93.56	
RESNA	09/14/92		8.45	93.01	
MW-9E					
HLA	10/12/89	98.41	5.70	92.71	
	09/20/90		5.84	92.57	
	10/19/90		5.78	92.63	
	11/02/90			bandoned	
MW-9F					
HLA	10/12/89	96.96	6.07	90.89	
	09/20/90		5.97	90.99	
	10/19/90		5.94	91.02	
	01/11/91		5.72	91.24	
	04/30/91		5.74	91.22	
	07/29/91		6.02	90.94	
	10/25/91		6.11	90.85	
	02/05/92		5.81	91.15	
	05/05/92		5.86	91.10	
RESNA	09/14/92			Measured	
MW-9G					
HLA	10/12/89	98.51	6.01	92.50	
	09/20/90		6.03	92.48	
	10/19/90		5.92	92.59	
	01/11/91		5.72	92.79	
	04/30/91		5.74	93.04	
	07/29/91		5.97	92.54	
	10/25/91		6.16	92.35	
	02/05/92		5.59	92.92	
	05/05/92		5.60	92.91	
RESNA	09/14/92	•		Measured	
MW-9H					
HLA	10/12/89	97.14	8.35	88.79	
	09/20/90		8.25	88.89	
	10/19/90		8.17	88.97	
	01/11/91	•	7.55	89.59	
	04/30/91		8.02	89.12	

See notes on page 3 of 3.



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TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA

Former Texaco Station 2200 East 12th Street Oakland, California (Page 3 of 3)

Well	Date	Wellhead Elevation*	Depth to Water	Groundwater Elevation*	
MW-9H Con't					
	10/25/91		8.25	88.89	
	02/05/92		7.70	89,44	
	05/05/92		8.12	89.02	
RESNA	09/14/92			Measured	
MW-9I					
HLA	11/15/90	98.66	6.01	92.65	
	01/11/91		5.80	92.86	
	04/30/91		5.45	93.21	
	07/29/91		6.07	92.59	
	10/25/91		6.23	92.43	
	02/05/92		5.56	93.10	
	05/05/92		5.60	93.06	
RESNA	09/14/92		6.12	92.54	

Measurements in feet.

Elevation relative to temporary benchmark with an arbitrary elevation of 100.0 feet.

HI.A : Harding Lawson Associates



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TABLE 2 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES

Former Texaco Station 2200 East 12th Street Oakland, California (Page 1 of 3)

<u>Well</u>	Date	.		Ethyl-	Total	Trova
	Date	Benzene	Toluene	benzene	Xylenes	ТРНд
MW-9A						
HLA	06/13/88	< 0.5	<1.0	<2.0	<1.0	NA
	10/24/88	< 0.5	<1.0	<2.0	<1.0	NA
	10/13/89	< 0.5	< 0.5	< 0.5	<3.0	NA
	10/19/90	< 0.5	< 0.5	< 0.5	< 0.5	<50
	01/11/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	04/30/91	< 0.5	< 0.5	< 0.5	< 0.5	< 50
	07/29/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	10/25/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	02/05/92	1.1	1.8	0.6	1.3	<50
	05/05/92	< 0.5	<0.5	<0.5	<0.5	<50
RESNA	09/14/92	<0.5	<0.5	<0.5	<0.5	<50
MW-9B						
HLA	06/13/88	350	7.8	66	160	NA
	10/24/88	84	<1.0	3.1	3.2	NA
	10/13/89	4.1	< 0.5	< 0.5	<3.0	NA
	10/19/90	27	< 0.5	2.3	< 0.5	62
	01/11/91	4.3	< 0.5	1.1	1.0	100
	04/30/91	68	1.0	3.9	< 0.5	170
	07/29/91	1.6	< 0.5	< 0.5	< 0.5	100
	10/25/91	1.2	< 0.5	< 0.5	< 0.5	<50
	02/05/92	14	< 0.5	2.9	2.5	60
	05/05/92	180	2.4	8.4	2.2	620
RESNA	09/14/92	9.6	<0.5	<0.5	< 0.5	110
<u>MW-9C</u>						
HLA	06/13/88	< 0.5	<1.0	<2.0	<1.0	NA
	10/28/88	< 0.5	<1.0	<2.0	<1.0	NA
	10/13/89	< 0.5	< 0.5	< 0.5	<3.0	NA
	10/19/90	< 0.5	<0.5	< 0.5	< 0.5	<50
	01/11/91	< 0.5	< 0.5	< 0.5	<0.5	<50
	04/30/91	100	1.6	< 0.5	<0.5	240
	07/29/91	< 0.5	<0.5	<0.5	<0.5	<50
	10/25/91	< 0.5	< 0.5	< 0.5	<0.5	<50
	02/05/92	< 0.5	< 0.5	<0.5	<0.5	<50
	05/05/92	< 0.5	< 0.5	<0.5	<0.5	<50
RESNA	09/14/92	< 0.5	< 0.5	<0.5	<0.5	<50

See notes on page 3 of 3.



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TABLE 2 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES

Former Texaco Station 2200 East 12th Street Oakland, California (Page 2 of 3)

Well	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	ТРНg
MW-9D						
HLA	10/24/88	<0.5	<1.0	<2.0	<1.0	NA
	10/13/89	<0.5	<0.5	< 0.5	<3.0	NA
	10/19/90	< 0.5	< 0.5	< 0.5	< 0.5	< 50
	01/11/91	< 0.5	<0.5	< 0.5	< 0.5	<50
	04/30/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	07/29/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	10/25/91	< 0.5	< 0.5	< 0.5	< 0.5	< 50
	02/05/92	<0.5	< 0.5	< 0.5	< 0.5	<50
	05/05/92	< 0.5	< 0.5	< 0.5	<0.5	<50
RESNA	09/14/92	< 0.5	<0.5	< 0.5	<0.5	<50
MW-9E						
HLA	10/24/88	1.3	<1.0	<2.0	<1.0	NA.
	10/13/89	15	< 0.5	2.1	<3.0	NA
	10/19/90	4.0	< 0.5	0.9	< 0.5	< 50
	11/02/90		Well A	Abandoned		
<u>MW-9F</u>						
HLA	12/06/88	< 0.5	<1.0	< 2.0	<1.0	NA
	10/13/89	< 0.5	< 0.5	< 0.5	<3.0	NA
	10/19/90	< 0.5	< 0.5	< 0.5	< 0.5	<50
	01/11/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	04/30/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	07/29/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	10/25/91	1.1	< 0.5	< 0.5	< 0.5	<50
	02/05/92	< 0.5	< 0.5	< 0.5	< 0.5	<50
	05/05/92	< 0.5	< 0.5	< 0.5	< 0.5	<50
RESNA	09/14/92		Not S.	ampled		
MW-9G						
HLA	12/06/88	0.8	<1.0	<2.0	<1.0	NA
	10/13/89	<0.5	< 0.5	<0.5	<3.0	NA
	10/19/90	<0.5	< 0.5	< 0.5	< 0.5	<50
	01/11/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	04/30/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	07/29/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	10/25/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	02/05/92	< 0.5	< 0.5	<0.5	< 0.5	<50
	05/05/92	1.5	3.8	1.0	4.7	<50
RESNA	09/14/92		Not S	ampied		

See notes on page 3 of 3.



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TABLE 2 LTS OF LABORATORY

CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES

Former Texaco Station 2200 East 12th Street Oakland, California (Page 3 of 3)

<u>Well</u>	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	ТРНg
MW-9H						
HLA	12/06/88	< 0.5	<1.0	<2.0	<1.0	NA
	10/13/89	< 0.5	< 0.5	< 0.5	<3.0	NA
	10/19/90	< 0.5	< 0.5	< 0.5	< 0.5	<50
	01/11/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	04/30/91	< 0.5	< 0.5	< 0.5	0.5	<50
	07/29/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	10/25/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	02/05/92	< 0.5	< 0.5	< 0.5	< 0.5	<50
	05/05/92	< 0.5	< 0.5	< 0.5	< 0.5	<50
RESNA	09/14/92		Not Se	ampled		
MW-91						
HLA	11/15/90	4.0	1.2	1.1	2.2	55
	01/11/91	6.1	< 0.5	< 0.5	< 0.5	<50
	04/30/91	100	3.5	4.2	4.4	460
	07/29/91	< 0.5	< 0.5	< 0.5	< 0.5	150
	10/25/91	< 0.5	< 0.5	< 0.5	< 0.5	<50
	02/05/92	< 0.5	< 0.5	< 0.5	< 0.5	<50
	05/05/92	0.9	< 0.5	< 0.5	0.7	<50
RESNA	09/14/92	< 0.5	<0.5	<0.5	<0.5	<50
MCLs		1.0	_	680	1,750	
DWAL		_	100		_	

Results in parts per billion (ppb).

TPHg : Total petroleum hydrocarbons analyzed as gasoline.

NA : Not Analyzed

< : This symbol means "less than"

MCLs : Adopted Maximum Contaminant Levels in Drinking Water, DHS (October 1990)

DWAL : Recommended Drinking Water Action Levels, DHS (October 1990)

HLA : Harding Lawson Associates

APPENDIX A

GROUNDWATER SAMPLING PROTOCOL AND WELL PURGE DATA SHEETS



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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 three to 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.



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Well No. MW-9A

Time Started 1:45

TIME (hr)	GALLONS (cum.)	TEMP. (°F)	рн	CONDUCT. (micromho)
1:45	Start purg	ing MW-9A		
1:45	0	72.6	7.79	560
1:47	1.7	71.8	7.76	530
1:49	3.4	71.4	7.75	530
1:52	5.1	71.3	7.75	530
1:54	6.8	71.2	7.74	530
1:54	Stop purg	ing MW-9A		
Notes:	Depth Gallo	Depth to to Water - i to Water - f ns per Well G Well Casing	eter (inches) Bottom (feet) nitial (feet) inal (feet) % recovery Time Sampled Casing Volume allons Purged Volume Purged ng Rate (gpm)	: 17.50 : 7.65 : 7.65 ::100.0% : 3:00 :: 1.61 :: 6.8 :: 4.23



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Well No. MW-9B

Time Started 1:00

TIME (hr)	GALLONS (cum.)	TEMP. (°F)	рĦ	CONDUCT.
1:00	Start purg	ing MW-9B		
1:00	0	72.6	7.65	580
1:02	2	73.3	7.72	610
1:04	4	72.1	7.45	590
1:06	6	71.8	7.42	590
1:08	8	71.7	7.41	590
1:08	Stop purg	ing MW-9B		
ces:	Depth 1		ter (inches) ottom (feet)	17.50

Depth to Water - final (feet): 6.60

% recovery :100.0%

Time Sampled: 2:15

Gallons per Well Casing Volume : 1.79

Gallons Purged:

4.49

Well Casing Volume Purged : Approximate Pumping Rate (gpm) : 1.00



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Well No. MW-9C

Time Started 11:00

TIME (hr)	GALLONS (cum.)	TEMP. (°F)	рн	CONDUCT. (micromho)
11:00	Start purg	ing MW-9C		
11:00	o	73.6	7.47	630
11:02	1.6	73.0	7.47	630
11:04	3.2	72.6	7.45	630
11:06	4.8	72.7	7.43	630
11:08	6.4	72.6	7.40	630
11:08	Stop purg	ing MW-9C		
Notes:	Depth d	Depth to E to Water - in to Water - fi as per Well C	nal (feet) % recovery Time Sampled asing Volume allons Purged volume Purged	16.15 17.00 17.00 1100.0% 112:15 11.49 116.4 114.29



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Well No. MW-9D

Time Started 10:30

TIME (hr)	GALLONS (cum.)	TEMP. (*F)	рн	CONDUCT.
10:30	Start purg	ing MW-9D		
10:30	0	70.3	7.95	580
10:34	4	70.2	7.93	540
10:38	8	70.1	7.81	560
10:42	12	70.2	7.64	570
10:42	Stop purg	ing MW-9D		
tes:			ter (inches)	
	Depth (ottom (feet)	: 14.55

Depth to Water - final (feet): 8.45

% recovery :100.0% Time Sampled: 11:30

Gallons per Well Casing Volume: 3.98

Gallons Purged: 12.0

Well Casing Volume Purged : 3.01

Approximate Pumping Rate (gpm) :



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Well No. MW-9I

Time Started 11:40

3.05

Gallons Purged: 15.0

TIME (hr)	GALLONS (cum.)	TEMP. (°F)	рн	CONDUCT.
11:40	Start purg	ing MW-91		
11:40	0	74.9	7.43	800
11:45	5	74.2	7.38	810
11:50	10	74.6	7.33	810
11:55	15	73.8	7.30	800
11:55	Stop purg	ing MW-9I		
otes:	Depth (Depth to I to Water - in to Water - fi	inal (feet) % recovery Time Sample) : 13.65) : 6.12) : 6.12 y :100.0%
	Gallo	ns per Well (Casing Volume	

Well Casing Volume Purged:
Approximate Pumping Rate (gpm):

APPENDIX B

LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY DOCUMENTATION



RECEIVED

SEP 29 1992

RESNA SANJOSE

5021 Blum Road, Suite 3 • Martinez, CA 94553 Phone (415) 372-3700 • Fax (415) 372-6955

62079.01\1342\012115

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

Date Sampled: 09-14-92 Date Received: 09-16-92 Date Analyzed: 09-23-92

Sample Number 092275

Sample Description Project # 62079.01 Texaco - Oakland 2200 E. 12th WATER BB1

ANALYSIS

Detection Limit	Sample Results
ppb	ppb
50	<50
0.5	<0.5
0.5	<0.5
0.5	<0.5
0.5	<0.5
	ppb 50 0.5 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.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



5021 Blum Road, Suite 3 • Martinez, CA 94553 Phone (415) 372-3700 • Fax (415) 372-6955

62079.01\1342\012115

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

Date Sampled: 09-14-92 Date Received: 09-16-92 Date Analyzed: 09-23-92

Sample Number ------092276 Sample Description
----Project # 62079.01
Texaco - Oakland
2200 E. 12th
MW-9D 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.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



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62079.01\1342\012115

RESNA Industries

3315 Alamden Expressway, #34

San Jose, CA 95118

Attn: Phillip Mayberry

Project Manager

Date Sampled: 09-14-92

Date Received: 09-16-92

Date Analyzed: 09-23-92

Sample Number

092277

Sample Description

Project # 62079.01

Texaco - Oakland

2200 E. 12th

MW-9C

WATER

ANALYSIS

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

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.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS

Ronald G. Evans

Lab Director



5021 Blum Road, Suite 3 • Martinez, CA 94553 Phone (415) 372-3700 • Fax (415) 372-6955

62079.01\1342\012115

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

Date Sampled: 09-14-92 Date Received: 09-16-92 Date Analyzed: 09-23-92

Sample Number
----092278

Sample Description
-----Project # 62079.01
Texaco - Oakland
2200 E. 12th
MW-9I WATER

ANALYSIS

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

QA/QC: Sample blank is none detected

Spike Recovery is 92%

Duplicate Deviation is 4.8%

Note:

Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



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62079.01\1342\012115

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

Date Sampled: 09-14-92 Date Received: 09-16-92 Date Analyzed: 09-23-92

Sample Number 092279

Sample Description Project # 62079.01 Texaco - Oakland 2200 E. 12th WATER MW-9A

ANALYSIS

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

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.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



5021 Blum Road, Suite 3 • Martinez, CA 94553 Phone (415) 372-3700 • Fax (415) 372-6955

62079.01\1342\012115

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

Project Manager

Date Sampled: 09-14-92 Date Received: 09-16-92 Date Analyzed: 09-23-92

Sample Description
-----Project # 62079.01
Texaco - Oakland
2200 E. 12th
MW-9B WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	110
Benzene	0.5	9.6
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.

 $(ppb) = (\mu g/L)$

MOBILE CHEM LABS



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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