

Texaco Refining and Marketing Inc

10 Universal City Plaza Universal City CA 91608

93 AUG 18 PM 3: 23

August 13, 1993

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

SUBJECT: QUARTERLY GROUNDWATER MONITORING LETTER REPORT

Site: 1127 Lincoln Avenue Alameda, California

Dear Ms. Shin:

Enclosed is a copy of the Quarterly Groundwater Monitoring Report dated July 22, 1993, for the above subject site. The report, for the recently install vapor extraction and groundwater treatment system, is currently being prepares and copies will soon be available for release.

Please call me at 818 505 2476, if you have any questions.

Very truly yours, Texaco Refining And Marketing Inc

Nobles
Bob Robles

RR:rr

pr__

Enclosure

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-Richmond



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

FAX: (408) 264-2435

LETTER REPORT QUARTERLY GROUNDWATER MONITORING

Second Quarter 1993

at

Former Texaco Station 1127 Lincoln Avenue Alameda, California

62074.01

Richard A. Garlow

Senior Project Geologist

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July 22, 1993



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

> July 22, 1993 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 Second 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 second quarter 1993 (April through June 1993). Monthly groundwater monitoring was conducted on May 6 and June 15, 1993, and quarterly sampling was performed on May 6, 1993. Quarterly groundwater monitoring 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-6, and MW-8) sampled at this site. MW-7 was inaccessible for monitoring or sampling this quarter because a car was parked over the well. Wells VW-1 through VW-5 were not monitored at the request of TES. RESNA's groundwater sampling protocol and well purge data sheets are included in Appendix A.

WORK PERFORMED

GROUNDWATER MONITORING

Groundwater elevations (May 6, 1993) at the site have decreased an average of about 0.5 foot from the elevations reported the previous quarter (February 4, 1993), except in well MW-2 which increased 0.23 foot. The groundwater gradient map shows the groundwater



beneath the site to be flowing towards the northeast with a hydraulic 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.

GROUNDWATER ANALYTICAL RESULTS

Concentrations of TPHg in groundwater samples ranged from less than 50 parts per billion (ppb) (MW-4) to 22,000 ppb (MW-8). Dissolved benzene concentrations ranged from 1.6 ppb (MW-4) to 9,400 ppb (MW-8). 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 May 11, 1993, approximately 225 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.

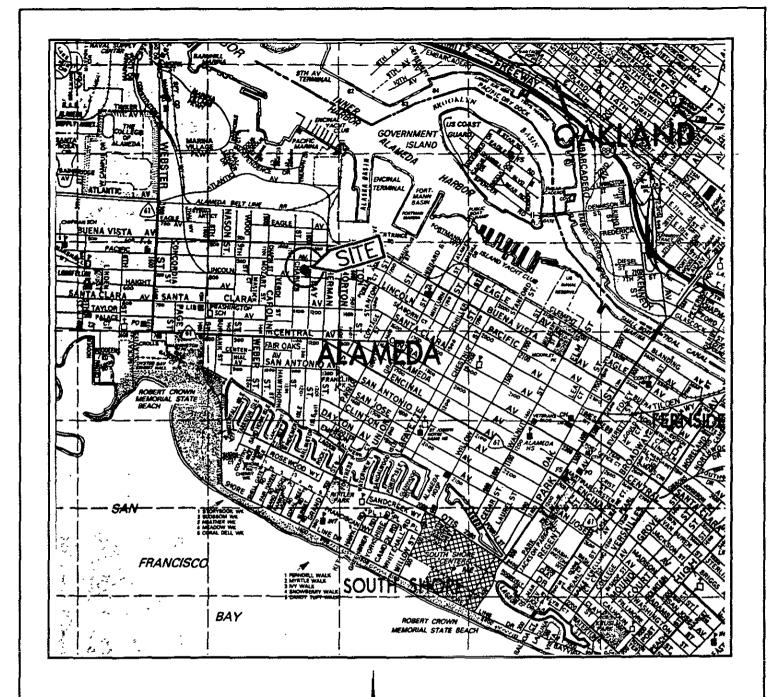


If you have any questions or comments regarding this report, please call (408) 264-7723.

Enclosures: Plate 1, Plate 2, Groundwater Gradient Map
Plate 3, TPHg/Benzene Concentrations in Groundwater

Table 1, Cumulative Groundwater Monitoring Data
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.

LEGENO

(ullet) = Site Location

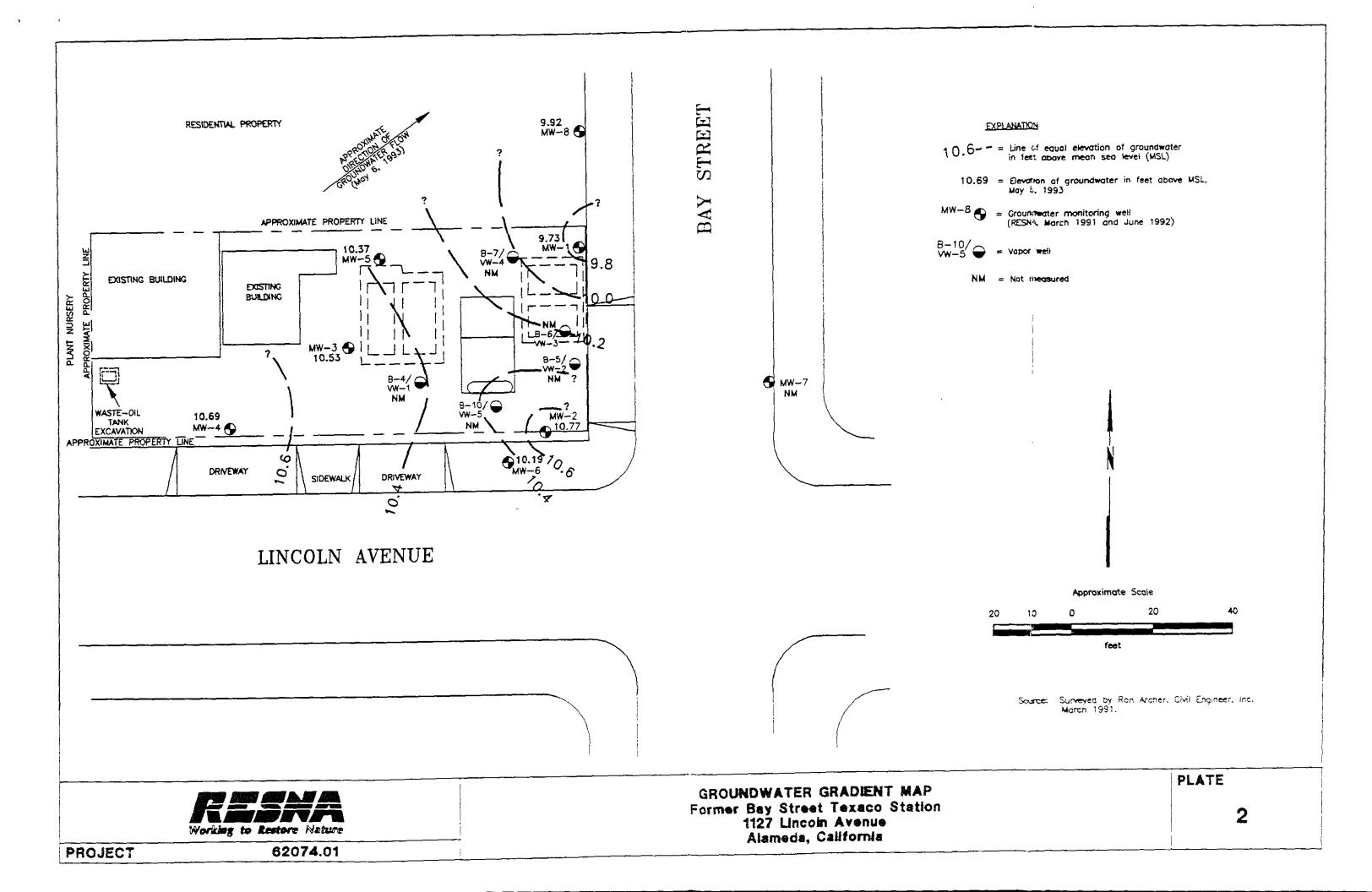
Approximate Scale
2000 1000 0 2000 4000
feet

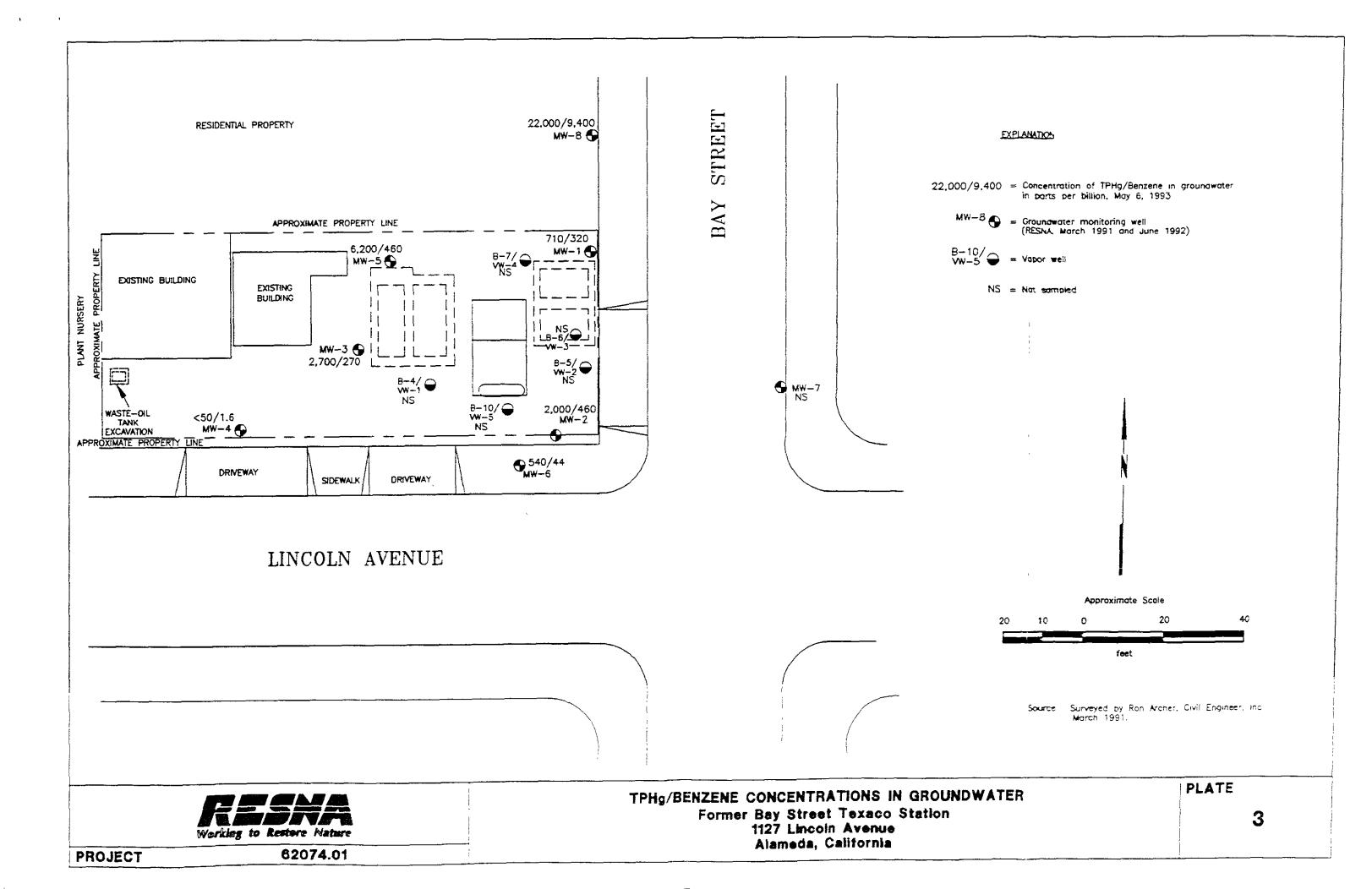
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PROJECT 62074.01

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

1







July 22, 1993 62074.01

TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA Former Bay Street Texaco Station 1127 Lincoln Avenue Alameda, California

(Page 1 of 5)

| Well | Date | Elevation of Wellhead | Depth to-Water | Elevation of Groundwater | Floating Product/ Sheen |
|-------------|----------|-----------------------|-------------------|--------------------------|----------------------------|
| 3.007.4 | | | | · | |
| <u>MW-1</u> | 03/22/91 | 16.49 | 7.23 | 9.26 | NONE |
| | 04/04/91 | 10.49 | 6.68 | 9.81 | NONE |
| | | | 8.59 | 7.90 | NONE |
| | 08/13/91 | | 9.38 | 7.11 | NONE |
| | 11/14/91 | | 6.34 | 10.15 | NONE |
| | 02/19/92 | | 7.60 | 8.89 | NONE |
| | 06/25/92 | | | 7.54 | NONE |
| | 09/16/92 | | 8.95 9.10 | 7.34 7.39 | NONE |
| | 11/17/92 | | | | NONE |
| | 01/26/93 | | 5.63 | 10.86 | |
| | 02/04/93 | | 6.02 | 10.47 | NONE |
| | 03/09/93 | | 5.92 | 10.57 | NONE |
| | 05/06/93 | | 6.76 | 9.73 | NONE |
| | 06/15/93 | | 6.81 | 9.68 | NONE |
| MW-2 | | | | | |
| | 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 |
| | 05/06/93 | | 6.37 | 10.77 | NONE |
| | 06/15/93 | | 7.04 | 10.10 | NONE |
| MW-3 | | | | | |
| | 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 |

See notes on page 5 of 5.



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TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA Former Bay Street Texaco Station 1127 Lincoln Avenue Alameda, California (Page 2 of 5)

| Well | Date | Elevation of Wellhead | Depth to-Water | Elevation of Groundwater | Floating Product/ Sheen |
|-------------|---------------|-----------------------|-------------------|--------------------------|---------------------------------------|
| | | | | | · · · · · · · · · · · · · · · · · · · |
| MW-3 Cont'd | 03/09/93 | | 5.88 | 11.03 | NONE |
| | 05/06/93 | | 6.38 | 10.53 | NONE |
| | 06/15/93 | INACC | ESSIBLE | | |
| <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 |
| | 05/06/93 | | 6.49 | 10.69 | NONE |
| | 06/15/93 | | 6.34 | 10.84 | NONE |
| MW-5 | | | | | |
| | 06/25/92 | 16.37 | 7.35 | 9.02 | NONE |
| | 09/16/92 | 1027 | 8.85 | 7.52 | NONE |
| | 11/17/92 | | 9.03 | 7.34 | NONE |
| | 01/26/93 | NOT MO | NITORED | 7.54 | 110.12 |
| | 02/04/93 | | ESSIBLE | | |
| | 03/09/93 | ина | 5.45 | 10.92 | NONE |
| | | | 6.00 | 10.37 | NONE |
| | 05/06/93 | | 7.81 | 8.56 | NONE |
| | 06/15/93 | | 7.61 | 8.20 | NONE |
| <u>MW-6</u> | 0.4 (0.8 (0.2 | | | 0.00 | NONE |
| | 06/25/92 | 17.12 | 7.8 6 | 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 |
| | 05/06/93 | | 6.93 | 10.19 | NONE |
| | 06/15/93 | | 7.00 | 10.12 | NONE |
| <u>MW-7</u> | | | | | |
| | 06/25/92 | 16 71 | 7.61 | 9.10 | NONE |
| | 09/16/92 | | 8 <i>7</i> 8 | 7.93 | NONE |
| | 11/17/92 | NOT MO | NITORED | | |
| | 01/26/93 | | 6.53 | 10.18 | NONE |
| | 02/04/93 | | 6 4 0 | 10.31 | NONE |
| | 03/09/93 | | 6.52 | 10.19 | NONE |
| | | | | | |

See notes on page 5 of 5.



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TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA Former Bay Street Texaco Station 1127 Lincoln Avenue Alameda, California

(Page 3 of 5)

| Well | Date | Elevation of Wellhead | Depth to-Water | Elevation of Groundwater | Floating Product/ Sheen |
|--------------|----------|--------------------------|-------------------|--------------------------|----------------------------|
| MW-7 Cont'd | 05/06/93 | NOT MO | INTTORED | | |
| MINI | 06/15/93 | NOT MC | 6.69 | 10.02 | NONE |
| MW <u>-8</u> | | | | | |
| | 06/25/92 | 15.91 | 7.20 | 8. <i>7</i> 1 | 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 |
| | 05/06/93 | | 5.99 | 9.92 | NONE |
| | 06/15/93 | | 6.32 | 9.59 | |
| VW-1 | V-, -,-3 | | ~~~ | | |
| <u></u> | 03/22/91 | 16.83 | DRY | DRY | NONE |
| | 04/04/91 | 20100 | 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 MO | NITORED | 21 | 1,0112 |
| | 11/17/92 | | NITORED | | |
| | 01/26/93 | | NITORED | | |
| | 02/04/93 | | NITORED | | |
| | 03/09/93 | | NITORED | | |
| | 05/06/93 | | NITORED | | |
| | 06/15/93 | | NITORED | | |
| | 00/15/25 | NOT MC | MIONS | | |
| <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 | | NITORED | | |
| | 11/17/92 | NOT MO | NTTORED | | |
| | 01/26/93 | NOT MO | NITORED | | |
| | 02/04/93 | NOT MO | NTTORED | | |
| | 03/09/93 | NOT MO | NTTORED | | |
| | 05/06/93 | NOT MO | NTTORED | | |
| | 06/15/93 | NOTHO | NTTORED | | |

See notes on page 5 of 5



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TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA Former Bay Street Texaco Station

1127 Lincoln Avenue Alameda, California (Page 4 of 5)

| <u>Well</u> | Date | Elevation of Wellhead | Depth to-Water | Elevation of Groundwater | Floating Product/ Sheen |
|---------------|----------|-----------------------|-------------------|--------------------------|----------------------------|
| | | | | | |
| <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 |
| | 09/16/92 | NOT MC | NITORED | | |
| | 11/17/92 | | NITORED | | |
| | 01/26/93 | NOT MO | NITORED | | |
| | 02/04/93 | NOT MC | NITORED | | |
| | 03/09/93 | NOT MO | NITORED | | |
| | 05/06/93 | NOT MO | NITORED | | |
| | 06/15/93 | NOT MO | NITORED | | |
| ∨ w -4 | | | | | |
| | 03/22/91 | 16.81 | 7.66 | 9.15 | SHEEN |
| | 04/04/91 | INACC | ESSIBLE | | |
| | 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 MO | NITORED | | |
| | 11/17/92 | NOT MO | NITORED | | |
| | 01/26/93 | | NITORED | | |
| | 02/04/93 | | NITORED | | |
| | 03/09/93 | | NITORED | | |
| | 05/06/93 | | NITORED | | |
| | 06/15/93 | | NITORED | | |



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TABLE 1 CUMULATIVE GROUNDWATER MONITORING DATA Former Bay Street Texaco Station 1127 Lincoln Avenue Alameda, California

(Page 5 of 5)

| Well | Date | Elevation of Wellhead | Depth to-Water | Elevation of Groundwater | Floating Product/ Sheen |
|-------------|----------|-----------------------|-------------------|--------------------------|----------------------------|
| | | | | | |
| VW-5 | | | | | |
| | 03/22/91 | 17.20 | 7. 67 | 9 <i>.</i> 53 | SHEEN |
| | 04/04/91 | INACC | ESSIBLE | | |
| | 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 MO | ONITORED | | |
| | 11/17/92 | NOT MO | ONTTORED | | |
| | 01/26/93 | NOT MO | DNITORED | | |
| | 02/04/93 | NOT MO | ONITORED | | |
| | 03/09/93 | NOT MO | NITORED | | |
| | 05/06/93 | NOT MO | NITORED | | |
| | 06/15/93 | NOT MO | ONTTORED | | |

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

1127 Lincoln Avenue Alameda, California (Page 1 of 3)

| Well Number Date | TPHg | Benzene | Toluene | Ethyl- benzene | Total Xylenes | TPHd* | VOCs & Semi-VOCs | Dissolved Oxygen | Ethylene Glycol |
|----------------------|--------------|---------------|-------------|-------------------|-------------------|-------------|---------------------|---------------------|--------------------|
| | | | | | | | | | |
| <u>MW-1</u> | 4.500 | 4.000 | | 400 | | 4.400 | *775 | NT.A | NA. |
| 03/22/91 | 4,500 | 1,300 | 670 | 180 | <i>77</i> 0 48 | 1,100 | ND NA | NA NA | NA NA |
| 08/13/91 | 850 <30 | 260 < 0.30 | 51 <0.30 | 13 <0.30 | 46 < 0.30 | NA. NA | NA NA | NA NA | NA NA |
| 11/14/91 02/19/92 | 440 | <0.50 14 | | 2.1 | 9.9 | NA NA | NA NA | 4.0 | <10 |
| 02/19/92 | 4,000 | 680 | 14 110 | 73 | 9.9 140 | NA NA | NA NA | NA. | NA |
| 00/25/92 | 3,400 | 880 | 28 | 73 41 | 53 | NA NA | NA | NA. | NA. |
| 11/17/92 | 730 | 250 | 28 22 | 12 | 33 27 | NA | NA NA | NA. | NA. |
| 02/04/93 | 120 | 230 22 | 3.1 | 3.3 | 10 | NA NA | NA NA | NA. | NA NA |
| 05/06/93 | 7 1 0 | 320 | 3.1 | 3.3 4.2 | 20 | NA NA | NA NA | NA. | NA. |
| W/00/93 | 710 | 320 | 3.1 | 4.2 | 20 | 1467 | IVA. | 1423 | IVA |
| MW-2 | | | | | | | | | |
| 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 | <i>7</i> 5 | 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. |
| 05/06/93 | 2,000 | 460 | 2.4 | 160 | 66 | NA. | NA. | NA | NA |
|) OV A | | | | | | | | | |
| <u>MW-3</u> | 2.500 | 000 | 22 | 240 | 500 | 77 0 | ND | NA | NA |
| 03/22/91 | 2,500 | 390 | 27 | 240 | 780 | | | NA NA | NA NA |
| 08/13/91 | 1,300 | 180 | 3.8 9 | 79 20 | 200 | NA NA | NA NA | NA NA | NA NA |
| 11/14/91 | 870 990 | 89 | | 30 | 82 | NA NA | NA NA | 3.4 | NA NA |
| 02/19/92 | 4,900 | <0.5 | < 0.5 | 2.0 | 72 | NA NA | NA NA | NA | NA NA |
| 06/25/92 | 7,300 | 350 690 | 11 10 | 330 | 570 780 | NA NA | NA NA | NA NA | NA. |
| 09/17/92 11/17/92 | 1,200 | 160 | 2.1 | 450 83 | 780 160 | NA NA | NA NA | NA. | NA. |
| | | | | | | | | NA NA | NA NA |
| 02/04/93 05/06/93 | 2,900 | 180 270 | 13 6.2 | 210 | 350 720 | NA NA | NA NA | NA NA | NA. |
| 03/00/93 | 2,700 | 270 | 0.4 | 300 | 120 | NA | IVA | NA. | 14/3 |
| MW-4 | | | | | | | | | |
| 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 | NΑ | NA |
| 02/04/93 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | NA | NA | NA | NA |
| 05/06/93 | < 50 | 1.6 | < 0.5 | 1.0 | 2.1 | NA | NA | NA | NA |
| , -, | • | 2.0 | | = | 2 | · | | | |

See notes on page 3 of 3



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TABLE 2 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES Former Bay Street Texaco Station

1127 Lincoln Avenue
Alameda, California
(Page 2 of 3)

| Well Number Date | ТРНд | Benzene | Toluene | Ethyl- benzene | Total Xylenes | TPHd* | VOCs & Semi-VOCs | Dissolved Oxygen | Ethylene Glycol |
|---------------------|---------------|---------|-------------|-------------------|------------------|-------|---------------------|---------------------|--------------------|
| | | | | | | | | | |
| MW-5 | | | | | | | | | |
| 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 SA | MPLED | | | | |
| 05/06/93 | 6,200 | 460 | 980 | 300 | 1,200 | NA | NA | NA | NA |
| | | | | | | | | | |
| <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 | NA. |
| 05/06/93 | 540 | 44 | 0.9 | 7.0 | 6.7 | NA | 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 SA | MPLED | | | | |
| 02/04/93 | <50 | < 0.5 | < 0.5 | < 0.5 | <0.5 | NA | NA | NA | NA |
| 05/06/93 | | | | NOT SA | MPLED | | | | |
| | | | | | | | | | |
| <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 | 4,70 0 | 1,700 | 12 | 8.0 | 22 | NA | NA | NA | NA |
| 02/04/93 | 540 | 150 | 3.7 | 5.2 | 10 | NA | NA | NA. | NA. |
| 05/06/93 | 22,000 | 9,400 | 46 | 390 | 520 | NA | NA. | NA | NA |
| | | | | | | | | | |
| MCLs | _ | 1.0 | | 680 | 1,750 | _ | _ | _ | _ |
| DWAL | | | 100 | _ | - | - | _ | _ | |



62074.01

Second Quarter 1993 Quarterly Report 1127 Lincoln Avenue, Alameda, California

TABLE 2 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES

Former Bay Street Texaco Station 1127 Lincoln Avenue Alameda, California (Page 3 of 3)

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).

Dissolved Oxygen : Measured in parts per million (ppm).

Ethylene Glycol: Measured 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.

Project Name: <u>Texaco--1127 Lincoln Avenue</u> Job No. <u>62074.01</u>

Date: 05/06/93 Page <u>1</u> of <u>1</u>

Well No. MW-1

Time Started _12:00_

| TIME (hr) | GALLONS (cum.) | TEMP. (F) | pH | CONDUCT. (micromho) |
|--------------|-------------------|--------------|------|---------------------|
| 12:00 | Start purg | ing MW-1 | | |
| 12:00 | 0 | 63.1 | 7.39 | 1020 |
| 12:05 | 8.25 | 63.2 | 7.23 | 1060 |
| 12:10 | 16.50 | 63.3 | 7.21 | 1120 |
| 12:15 | 24.75 | 62.9 | 7.21 | 1030 |
| 12:20 | 33.0 | 63.3 | 7.16 | 1000 |
| 12:21 | Stop purg | ing MW-1 | | |

NM = Not Measured

Well Diameter (inches) : 4

Depth to Bottom (feet): 19.25

Depth to Water - initial (feet) : 6.76

Depth to Water - final (feet): 6.76

% recovery : 100 Time Sampled : 1:15

Gallons per Well Casing Volume: 8.24

Gallons Purged: 33.0

Well Casing Volume Purged: 4.00

Approximate Pumping Rate (gpm): 13

Project Name: <u>Texaco--1127 Lincoln Avenue</u> Job No. <u>62074.01</u>

Date: 05/06/93 Page _1 of _1_

Time Started 1:30 Well No. MW-2

| TIME (hr) | GALLONS (cum.) | TEMP. (F) | ЪĦ | CONDUCT. |
|--------------|-------------------|--------------|--|----------|
| 1:30 | Start purg | ing MW-2 | | |
| 1:30 | 0 | 67.4 | 7.06 | 1080 |
| 1:35 | 8.5 | 67.1 | 7.06 | 1080 |
| 1:40 | 17.0 | 66.9 | 7.13 | 920 |
| 1:45 | 25.5 | 67.4 | 7.16 | 840 |
| 1:50 | 34.0 | 66.7 | 7.27 | 740 |
| 1:51 | Stop purg | ing MW-2 | | |
| tes: | | Well Diame | Not Measured ter (inches) ottom (feet) | : 4 |

Depth to Water - initial (feet): 6.37

Depth to Water - final (feet): 6.37

% recovery : 100 Time Sampled : 2:50

Gallons per Well Casing Volume: 8.50

Gallons Purged: 34.0

Well Casing Volume Purged: 4

Approximate Pumping Rate (gpm) : 12

Job No. <u>62074.01</u> Project Name: <u>Texaco--1127 Lincoln Avenue</u>

Date: 05/06/93 Page 1 of 1

Well No. MW-3

Time Started _2:15

| TIME (hr) | GALLONS (CUR.) | TEMP. (F) | рн | CONDUCT. (micromho) |
|--------------|-------------------|--------------|--------------|---------------------|
| 2:15 | Start purg | ing MW-3 | | |
| 2:15 | 0 | 66.9 | 7.13 | 1050 |
| 2:20 | 8.70 | 66.9 | 7.05 | 1040 |
| 2:25 | 17.4 | 66.5 | 7.15 | 880 |
| 2:30 | 26.1 | 66.7 | 7.20 | 730 |
| 2:35 | 34.8 | 65.9 | 7.25 | 710 |
| 2:36 | Stop purg | ing MW-3 | | |
| otes: | <u> </u> | | Not Measured | |

Well Diameter (inches): 4

Depth to Bottom (feet): 19.56

Depth to Water - initial (feet): 6.38

Depth to Water - final (feet): 6.55

% recovery : 80

Time Sampled: 3:45

Gallons per Well Casing Volume: 8.70
Gallons Purged: 34.8

Well Casing Volume Purged: 4.0

Approximate Pumping Rate (gpm): 12

Project Name: <u>Texaco--1127 Lincoln Avenue</u> Job No. <u>62074.01</u>

Page <u>1</u> of <u>1</u> Date: <u>05/06/93</u>

Well No. MW-4 Time Started 3:10

| TIME (hr) | GALLONS (cum.) | TEMP. (F) | рĦ | CONDUCT. |
|--------------|-------------------|--------------|--|----------------|
| 3:10 | Start purg | ing MW-4 | ** • • • • • • • • • • • • • • • • • • | |
| 3:10 | 0 | 65.8 | 7.40 | 470 |
| 3:16 | 9.05 | 66.2 | 7.41 | 460 |
| 3:22 | 18.10 | 65.8 | 7.38 | 460 |
| 3:28 | 27.15 | 65.4 | 7.35 | 440 |
| 3:34 | 36.20 | 65.4 | 7.35 | 430 |
| 3:35 | Stop purg | ing MW-4 | | |
| tes: | Don'th (| Well Diame | Not Measured ter (inches) ottom (feet) | : 4 : 20.20 |

Depth to Water - final (feet): 6.49

% recovery : 100

Time Sampled: 4:45

Gallons per Well Casing Volume: 9.05
Gallons Purged: 36.20

Well Casing Volume Purged: 4.0

Approximate Pumping Rate (gpm) : 13

Project Name: _Texaco--1127 Lincoln Avenue Job No. _62074.01

Date: 05/06/93 Page <u>1</u> of <u>1</u>

Well No. MW-5

Time Started 4:10

| TIME (hr) | GALLONS (CUM.) | TEMP. | PH | CONDUCT. |
|--------------|-------------------|------------|--|----------|
| 4:10 | Start purg | ing MW-5 | | |
| 4:10 | 0 | 64.8 | 7.29 | 600 |
| 4:16 | 9.15 | 64.5 | 7.23 | 610 |
| 4:22 | 18.30 | 63.8 | 7.22 | 620 |
| 4:28 | 27.45 | 63.8 | 7.23 | 620 |
| 4:34 | 37.0 | 63.9 | 7.22 | 620 |
| 4:35 | Stop purg | ing MW-5 | | |
| tes: | • | Well Diame | Not Measured ter (inches) ottom (feet) | : 4 |

Depth to Water - initial (feet) : 6.00

Depth to Water - final (feet): 6.00

% recovery : 100

Time Sampled: 5:25

Gallons per Well Casing Volume: 9.11

Gallons Purged: 37.0

Well Casing Volume Purged: 4.0
Approximate Pumping Rate (gpm): 12

Project Name: <u>Texaco--1127 Lincoln Avenue</u> Job No. <u>62074.01</u>

Page <u>1</u> of <u>1</u> Date: _05/06/93

Well No. MW-6 Time Started 5:00

| TIME (hr) | | | рĦ | CONDUCT. |
|--------------|------------|----------|------|----------|
| 5:00 | Start purg | ing NW-6 | | |
| 5:00 | 0 | 63.7 | 7.23 | 630 |
| 5:04 | 2.2 | 63.7 | 7.21 | 650 |
| 5:08 | 4.4 | 63.9 | 7.19 | 660 |
| 5:12 | 6.6 | 64.1 | 7.18 | 640 |
| 5:16 | 8.8 | 64.2 | 7.19 | 640 |
| 5:17 | Stop purg | ing MW-6 | | |

Notes:

NM = Not Measured

Well Diameter (inches) : 2

Depth to Bottom (feet): 19.90

Depth to Water - initial (feet): 6.93
Depth to Water - final (feet): 6.95

% recovery : 99

Time Sampled: 5:45

Gallons per Well Casing Volume: 2.20

Gallons Purged: 8.8

Well Casing Volume Purged : 4

Approximate Pumping Rate (gpm) : 3

Project Name: <u>Texaco--1127 Lincoln Avenue</u> Job No. <u>62074.01</u>

Date: 05/06/93 Page <u>1</u> of <u>1</u>

Well No. MW-8

Time Started 11:00

| TIME (hr) | GALLONS (cum.) | TEMP. (F) | рН | conduct. | | | | | |
|--------------|-------------------|--|--|--------------------------|--|--|--|--|--|
| 11:00 | Start purg | ing MW-8 | | | | | | | |
| 11:00 | 0 | 63.5 | 7.62 | 670 | | | | | |
| 11:06 | 9.05 | 63.4 | 7.71 | 520 | | | | | |
| 11:12 | 18.10 | 63.3 | 7.60 | 570 | | | | | |
| 11:18 | 27.15 | 63.4 | 7.52 | 680 | | | | | |
| 11:24 | 36.20 | 63.3 | 7.49 | 710 | | | | | |
| 11:25 | Stop purg | ing MW-8 | | | | | | | |
| otes: | Depth (| Well Diame Depth to Bo to Water - in | Not Measured ter (inches) ottom (feet) itial (feet) | : 4 : 19.70 : 5.99 | | | | | |

Depth to Water - final (feet): 5.99

% recovery : 100

Time Sampled: 12:35

Gallons per Well Casing Volume: 9.05
Gallons Purged: 36.20

Well Casing Volume Purged: 4
Approximate Pumping Rate (gpm): 13

APPENDIX B

LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY DOCUMENTATION



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

62074.01\1718\012675

RESNA Industries

3315 Alamden Expressway, #34

San Jose, CA 95118

Attn: Phillip Mayberry

Project Manager

Date Sampled: 05-06-93 Date Received: 05-07-93

Date Analyzed: 05-17-93

± · `′; :

Sample Number

053090

Sample Description

Project # 62074.01 Texaco - Alameda

1127 Lincoln

BB1 WATER

ANALYSIS

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

Note:

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

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

MOBILE CHEM LABS



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62074.01\1718\012675

RESNA Industries

3315 Alamden Expressway, #34

San Jose, CA 95118 Attn: Phillip Mayberry

Project Manager

Date Sampled: 05-06-93 Date Received: 05-07-93

Date Analyzed: 05-17-93

Sample Number ______

053091

Sample Description

Project # 62074.01 Texaco - Alameda

1127 Lincoln

Site Blank WATER

ANALYSIS

| | | 0 1 - |
|---|--------------------|-------------------|
| | Detection Limit | Sample Results |
| | 111111 L | 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: Spike Recovery is 106%

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

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

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RESNA Industries

3315 Alamden Expressway, #34

San Jose, CA 95118 Attn: Phillip Mayberry

Project Manager

Date Sampled: 05-06-93 Date Received: 05-07-93 Date Analyzed: 05-17-93

Sample Number

053092

Sample Description

Project # 62074.01 Texaco - Alameda

1127 Lincoln

MW-8 WATER

ANALYSIS

| * | Detection Limit | Sample Results |
|--|--------------------|-------------------|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | 22,000 |
| Benzene | 0.5 | 9,400 |
| Toluene | 0.5 | 46 |
| Xylenes | 0.5 | 520 |
| Ethylbenzene | 0.5 | 390 |

Note:

Analysis was performed using EPA methods 5030 and TPH

LUFT with method 602 used for BTX distinction.

 $(\Delta p\mu) = (dqq)$

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RESNA Industries

3315 Alamden Expressway, #34

San Jose, CA 95118 Attn: Phillip Mayberry

Project Manager

Date Sampled: 05-06-93 Date Received: 05-07-93

Date Analyzed: 05-17-93

Sample Number

053093

Sample Description

Project # 62074.01 Texaco - Alameda

1127 Lincoln

MW-1

WATER

ANALYSIS

| | Detection Limit | Sample Results |
|--|--------------------|-------------------|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | 710 |
| Benzene | 0.5 | 320 |
| Toluene | 0.5 | 3.1 |
| Xylenes | 0.5 | 20 |
| Ethylbenzene | 0.5 | 4.2 |

QA/QC: Duplicate Deviation is 4.1%

Note: Analysis was performed using EPA methods 5030 and TPH

LUFT with method 602 used for BTX distinction.

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

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RESNA Industries

3315 Alamden Expressway, #34

San Jose, CA 95118 Attn: Phillip Mayberry

Project Manager

Date Sampled: 05-06-93 Date Received: 05-07-93

Date Analyzed: 05-17-93

Sample Number

053094

Sample Description

Project # 62074.01 Texaco - Alameda

1127 Lincoln

MW-2

WATER

ANALYSIS

| | Detection Limit | Sample Results |
|--|--------------------|-------------------|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | 2,000 |
| Benzene | 0.5 | 460 |
| Toluene | 0.5 | 2.4 |
| Xylenes | 0.5 | 66 |
| Ethylbenzene | 0.5 | 160 |

Note:

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

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

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RESNA Industries

3315 Alamden Expressway, #34

San Jose, CA 95118 Attn: Phillip Mayberry

Project Manager

Date Sampled: 05-06-93 Date Received: 05-07-93

Date Analyzed: 05-17-93

Sample Number

053095

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

ANALYSIS

| | Detection Limit | Sample Results |
|--|--------------------------------------|-------------------|
| | Limit ppb 50 0.5 0.5 | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | 2,700 |
| Benzene | 0.5 | 270 |
| Toluene | 0.5 | 6.2 |
| Xylenes | 0.5 | 720 |
| Ethylbenzene | 0.5 | 300 |

Note:

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

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

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RESNA Industries

3315 Alamden Expressway, #34

San Jose, CA 95118 Attn: Phillip Mayberry

Project Manager

Date Sampled: 05-06-93 Date Received: 05-07-93

Date Analyzed: 05-17-93

Sample Number

053096

Sample Description

Project # 62074.01 Texaco - Alameda

1127 Lincoln

MW-4 WATER

ANALYSIS

| Detection Limit | Sample Results |
|--------------------|--------------------------------------|
| ppb | ppb |
| 50 | <50 |
| 0.5 | 1.6 |
| 0.5 | <0.5 |
| 0.5 | 2.1 |
| 0.5 | 1.0 |
| | Limit ppb 50 0.5 0.5 |

Note:

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

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

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RESNA Industries

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San Jose, CA 95118 Attn: Phillip Mayberry

Project Manager

Date Sampled: 05-06-93

Date Received: 05-07-93

Date Analyzed: 05-17-93

Sample Number

053097

Sample Description _____

Project # 62074.01

Texaco - Alameda

1127 Lincoln

MW-5

WATER

ANALYSIS _____

| | Detection Limit | Sample Results |
|---|--------------------|-------------------|
| | ppb | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | 6,200 |
| Benzene | 0.5 | 460 |
| Toluene | 0.5 | 980 |
| Xylenes | 0.5 | 1,200 |
| Ethylbenzene | 0.5 | 300 |

Note:

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

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

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RESNA Industries

3315 Alamden Expressway, #34

San Jose, CA 95118 Attn: Phillip Mayberry

Project Manager

Date Sampled: 05-06-93 Date Received: 05-07-93

Date Analyzed: 05-17-93

Sample Number

053098

Sample Description

Project # 62074.01 Texaco - Alameda

1127 Lincoln

MW-6 WATER

ANALYSIS

| | Detection Limit | Sample Results |
|--|----------------------|-------------------|
| | Limit ppb 50 0.5 0.5 | ppb |
| Total Petroleum Hydrocarbons as Gasoline | 50 | 540 |
| Benzene | 0.5 | 44 |
| Toluene | 0.5 | 0.9 |
| Xylenes | 0.5 | 6.7 |
| Ethylbenzene | 0.5 | 7.0 |

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

| PROJECT NO PROJEC | CT NAME/SITE | | | | | | | | | | | | ΑN | NALYS | SIS R | EQU | ESTE | 5 | - | | | P.O #: | |
|--|--------------|--------------|---------------|----------|--|---------------|--|----------------|------------------------------|----------|-------------|---|--|------------------------|----------|--|----------|------------|--------|--------|-------------|-------------|----|
| PROJECT NO PROJECT TO TO THE SAMPLERS SAMPLE IDENTIFICATION | 77 Line | idn 1 | Akn | rect | <u>. </u> | | | ERS | | | /_ | / | // | // | 7/ | 1 | 7/ | 7/ | | // | // | / | |
| SAMPLERS PECAL CICLO | (SIGN) | RINT) 7 | Robin | · p_{ | 14 | 4h | Ý | NO. CONTAINERS | SAMPLE TYPE | / | | (c) | 6 4/8/8/S | 8/ 2/ | &/ &/ | / &/ | // | // | // | //, | | | |
| SAMPLE IDENTIFICATION | N D | DATE I | TIME | COMP | GRAB | PRES. USED | <u>~</u> | 1 | SAMPI | 6 | | PA S | | 0108/182 | | ¥/_/ | // | | // | /_ | | REMARK | :S |
| BB/ | 5-4 | 93 12 | 2.25 | | _ | HCL | 1 | 2 | _} | \times | X | 1_ | | | _ | _ | | _ | _ | | | | |
| Site Blank | | 12 | 7:30 | | _ | -}- | | 2 | + | X | | | - | | | - | + | + | | | · | | |
| MW-5' | | 12 | 2:35 | | | | | 2 | - | X | X | | | | | | 1 | | | | | | |
| MW | | | 1.15 | | _ | | | 2 | $ \overset{\sim}{\swarrow} $ | X | X_{\perp} | | | _ | | _ | _ | | | | | | |
| MW Z | | | 2.50 | | _ | | | 2 | _ | \times | λ | | | | | | \dashv | | _ | | | <u></u> | |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | .45 | | _ | - | ╁╁╌ | 2 | + | | \ominus | - | - | | | | | | + | - | | | |
| MW 5 | | T | .45 :25 | | + | - | H | 2 | + | | | +- | ┨— | $\left \cdot \right $ | - | \dashv | -+ | - | + | | | | |
| MW 6 | | 1, | :45 | }-} | \dashv | \downarrow | 1 | 2 | + | | | 1 | - | | | | | _ | \top | - | | | |
| | | | . 13 | | \dashv | | | C | - \ > | | | _ | 1 | | | | | 1 | \top | | | | |
| | | | ! | | _ | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | _ | | | | | |
| | | | | | 4 | | _ | | | _ | | 4 | - | | | | | | _ | | | | |
| RELINGUISHED BY Folia Caldain | DATE 5-7-93 | TIME 730A | m | RECEIV | ED B | ıY; | <u> </u> | | 12 | BOR. | ATORY: | Che | L m | La | L Dis |] | | PLEA Th | ASE S | SEND A | RESUL | тs то. | |
| RETINQUISHED BY | DATE | TIME | F | RECEIV | ED E | BY: | | | | | | | | | | PLEASE SEND RESULTS TO. This Mayberry Response San Taise | | | | Eir. | | | |
| RELINQUISHED BY | DATE | TIME | F | RECEIV | ÆD E | BY: | | | RE | QUE | STED TO | urna Dyv | ROUN | ID TI | ME: | | | | | | | | |
| RETINATUSHED BY | DATE 5-7-9= | TIME 12:4 | | RECEIV | VED E | BYLABO | OTATO V/V | ORY: | ı | ECEIF | T CONI | | 1/2- v: VC 10 () | ew | ad) | of Of | ce | PRO | JECT | MANA | GER | | |