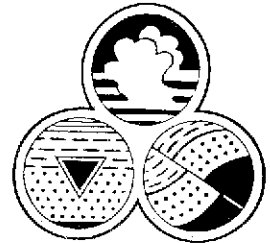


10234 new CW

# Advanced GeoEnvironmental, Inc.



10 February 2005  
AGE-NC Project No. 03-1101

Mr. Reed Rinehart  
Rinehart Oil, Inc.  
2401 North State Street  
Ukiah, California 95482

**Subject: Quarterly Report - Third Quarter 2004**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**

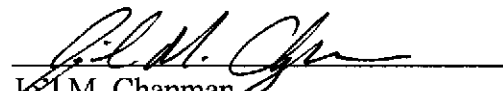
Dear Mr. Rinehart:

Advanced GeoEnvironmental, Inc. has prepared the enclosed *Quarterly Report - Third Quarter 2004* for the above-referenced site. Ground water monitoring was conducted as required by Mr. Barney Chan of the Alameda County Environmental Health Services (ACEHS-DEP) to assess the extent of petroleum hydrocarbon impact to ground water resulting from an unauthorized release from underground storage tanks. The enclosed report presents the results for the July 2004 ground water monitoring and sampling event.

The opportunity to provide this service is greatly appreciated. If you have any questions or require further information, please contact our office at (209) 467-1006.

Sincerely,

**Advanced GeoEnvironmental, Inc.**

  
J. M. Chapman  
Staff Geologist

Enclosure

cc: ✓ Mr. Barney Chan: ACEHS-DEP

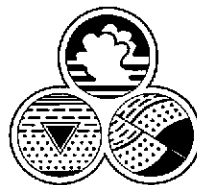
**Quarterly Report - Third Quarter 2004**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**

10 February 2005  
AGE-NC Project No. 03-1101

*PREPARED FOR:*

Mr. Reed Rinehart  
RINEHART OIL, INC.

*PREPARED BY:*

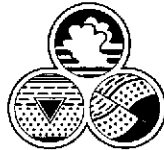


***Advanced GeoEnvironmental, Inc.***

381 Thor Place, Brea, California 92821 ● Phone (714) 529-0200 ● Fax (714) 529-0203  
837 Shaw Road, Stockton, California 95215 ● Phone (209) 467-1006 ● Fax (209) 467-1118  
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**Quarterly Report - Third Quarter 2004**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1104 5<sup>th</sup> Street, Oakland, California**

10 February 2005  
AGE-NC Project No. 03-1101

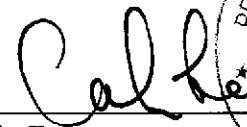


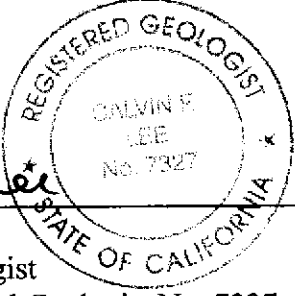
**Advanced GeoEnvironmental, Inc.**  
**837 Shaw Road, Stockton, California**

PREPARED BY:

  
\_\_\_\_\_  
Joel M. Chapman  
Staff Geologist

REVIEWED BY:

  
\_\_\_\_\_  
Calvin F. Lee  
Senior Project Geologist  
California Professional Geologist No. 7327



**Quarterly Report - Third Quarter 2004**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**

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**Quarterly Report - Third Quarter 2004**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**

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**Quarterly Report - Third Quarter 2004**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**

**1.0. INTRODUCTION**

At the request of Mr. Reed Rinehart of Rinehart Oil, Inc., *Advanced GeoEnvironmental, Inc. (AGE)* has prepared this *Quarterly Report - Third Quarter 2004* for the site located at 1107 5<sup>th</sup> Street, Oakland, California. This report presents the results of ground water monitoring activities conducted on 21 July 2004. The site and surrounding area are illustrated on Figure 1. On-site structures and well locations are illustrated on Figure 2. Site background information is provided in Appendix A.

The goals of the ground water monitoring program are to assess site ground water for seasonal variation of elevation, gradient, and flow direction, and to assess the impact of petroleum hydrocarbon compounds and fuel oxygenating compounds in shallow ground water beneath the site. This report has been prepared in accordance with the Regional Water Quality Control Board's *Appendix A - Reports, Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites*.

**2.0. PROCEDURES**

On 21 July 2004, the third quarter 2004 ground water monitoring event was conducted at the site; the scope of work included the measurement of ground water levels and collection of ground water samples from on-site monitoring wells MW-1, MW-3N, MW-4 through MW-7, and MW-9 through MW-11 (Figure 2).

**2.1. WELL MONITORING AND EVACUATION**

On 21 July 2004, a Solinst water level meter was used to measure the depth to ground water in the monitoring wells relative to the tops of the well casings (well heads). After water levels were gauged, disposable plastic bailers were used to evacuate (purge) the wells of a minimum of three casing-water volumes per well. Between 4.25 to 5.25 gallons of water were purged from monitoring wells MW-5, MW-6, and MW-10. The remaining wells (MW-1 through MW-4, MW-7 through MW-9, and MW-11) drew down before a full three casing-water volumes could be evacuated. Temperature, pH, and conductivity were measured at regular intervals using an Oakton water analyzer. Field data sheets are included in Appendix B. Purged water was stored on-site in properly labeled, Department of Transportation (DOT)-approved 55-gallon drums.

**2.2. COLLECTION AND ANALYSIS OF GROUND WATER SAMPLES**

Water samples were collected from the monitoring wells using the dedicated, disposable plastic

bailers after allowing the wells to achieve a minimum 80% recovery of the pre-purge water volume. The samples were transferred into three, 40-milliliter (ml) EPA-approved volatile organic analysis (VOA) vials containing 0.5 ml 18% hydrochloric acid solution as a sample preservative, and into one, 1-liter glass container without preservative. The sample containers were labeled with the well designation, date, time, and the sampler's initials and transported in a chilled container under chain of custody to Cal Tech Environmental Laboratories (CTEL), a California Department of Health Services (DHS)-certified analytical laboratory, for analysis. The samples were analyzed for:

- Total petroleum hydrocarbons quantified as gasoline and diesel (TPH-g and TPH-d, respectively) in accordance with EPA Method 8015M; and
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) and fuel additives di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), methyl tertiary-butyl ether (MTBE), tertiary-amyl methyl ether (TAME), tertiary butanol (TBA), 1,2-dibromoethane (EDB), and 1,2-dichloroethane (1,2-DCA) in accordance with EPA Method 8260B.

### 3.0. FINDINGS

Ground water elevation, flow direction, and gradient were determined from field data collected on 21 July 2004. The hydrocarbon impact to ground water was quantified by laboratory analysis of ground water samples.

#### 3.1. GROUND WATER GRADIENT AND FLOW DIRECTION

On 21 July 2004, depth to ground water was measured between 3.55 feet and 6.31 feet below the tops of the well casings; however, the depth to ground water (4.60 feet) at well MW-8 was affected by the presence of free product; the depth was recalculated (4.56 feet) utilizing the measured thickness of free product in well MW-2:

$$D_w = D_m - (t_g * d_g/d_w)$$

$D_w$  = Corrected depth to water

$D_m$  = Measured depth to water

$t_g$  = Total thickness of free product (~0.05 foot)

$d_g$  = Density of free product (gasoline at ~0.88 g/ml)

$d_w$  = Density of water (~1.0 gm/ml)

Ground water elevations at the site ranged from 3.84 feet (MW-11) to 8.29 feet (MW-10) above

mean sea level (MSL). The ground water elevation calculated for MW-11 was disregarded in the estimation of the ground water flow due to its abnormal elevation. Previous ground water flow and gradient calculations also had to be completed while disregarding measurements from wells MW-1 and MW-11 for the same reason.

For the third quarter 2004 monitoring event, the ground water flowed toward the northeast and north-northwest at equivalent gradients of 0.02 foot/foot (ft/ft). Depth to water and ground water elevations are summarized in Table 1. Figure 3 illustrates the contoured ground water elevations.

### 3.2. ANALYTICAL RESULTS OF GROUND WATER SAMPLES

Ground water samples were collected from on-site monitoring wells MW-1, MW-3N, MW-4 through MW-7, and MW-9 through MW-11 for laboratory analysis. A sample was not collected from well MW-8 due to free product encountered while bailing (see field sheets in Appendix B). Ground water sample analytical results are detailed below.

TPH-g was detected in ground water samples taken from monitoring wells MW-1, MW-3N, and MW-4 through MW-7 at concentrations ranging from 200 micrograms per liter ( $\mu\text{g/l}$ ) in MW-6 to 120,000  $\mu\text{g/l}$  in MW-7. TPH-d was detected in the sample from MW-7 at a concentration of 14  $\mu\text{g/l}$ . Figure 4 shows the estimated distribution contours of dissolved TPH-g.

BTEX constituents were detected in the sample from well MW-7 at concentrations of 11,000  $\mu\text{g/l}$  benzene, 730  $\mu\text{g/l}$  toluene, 1,000  $\mu\text{g/l}$  ethylbenzene, and 1,250  $\mu\text{g/l}$  xylenes. Benzene was also detected in the sample from well MW-5 at a concentration of 2.2  $\mu\text{g/l}$ .

The fuel additives MTBE, TAME, TBA, and 1,2-DCA were detected in selected analyzed samples. MTBE was detected in all samples collected from wells MW-1, MW-3N, MW-4 through MW-7, and MW-9 at concentrations ranging from 24  $\mu\text{g/l}$  (MW-9) to 71,000  $\mu\text{g/l}$  (MW-7); Figure 5 illustrates the estimated distribution contours of dissolved MTBE for this monitoring event. TAME was detected in the samples collected from wells MW-3N, MW-4, and MW-7 at concentrations as high as 370  $\mu\text{g/l}$  (MW-7). TBA was detected in wells MW-4 through MW-6 at a maximum concentration of 150,000  $\mu\text{g/l}$  (MW-4). 1,2-DCA was detected only in sample MW-7 at a concentration of 300  $\mu\text{g/l}$ .

A summary of ground water analytical results is presented in Tables 2 and 3. The laboratory analytical report (CTEL Project No. CT214-0404116), quality assurance/quality control (QA/QC) report, and chain of custody forms are included in Appendix C.



#### 4.0. SUMMARY AND CONCLUSIONS

Based on the findings from this investigation, AGE concludes:

- Ground water at the site during the July 2004 monitoring event flowed toward the northeast and north-northwest at equivalent gradients of approximately 0.02 ft/ft; the flow directions are consistent with previous site monitoring events. The average ground water elevation at the site decreased approximately 0.21 feet since the last monitoring event.
- TPH-g was detected in ground water samples collected from wells MW-1, MW-3N, and MW-4 through MW-7 at a maximum concentration of 120,000 µg/l (MW-7). TPH-d was detected in the sample from monitoring well MW-7 at a concentration of 14 µg/l.
- BTEX constituents were detected in the sample from well MW-7 at concentrations of 11,000 µg/l benzene, 730 µg/l toluene, 1,000 µg/l ethylbenzene, and 1,250 µg/l xylenes. Benzene was also detected in the sample from well MW-5 at 2.2 µg/l. The detected BTEX concentrations exceed the DHS's Maximum Contaminant Levels for these compounds in drinking water.
- MTBE was detected in samples MW-1, MW-3N, MW-4 through MW-7, and MW-9 at a maximum concentration of 71,000 µg/l (MW-7); TAME was detected in samples MW-3N, MW-4, and MW-7 at concentrations as high as 370 µg/l (MW-7); TBA was detected in samples MW-4 through MW-6 at a maximum concentration of 150,000 µg/l (MW-4); 1,2-DCA was detected in sample MW-7 at a concentration of 300 µg/l. The detected concentrations of MTBE and 1,2-DCA exceed the DHS's Maximum Contaminant Levels for these compounds in drinking water; TBA exceeded the DHS's Action Level for this contaminant in drinking water.

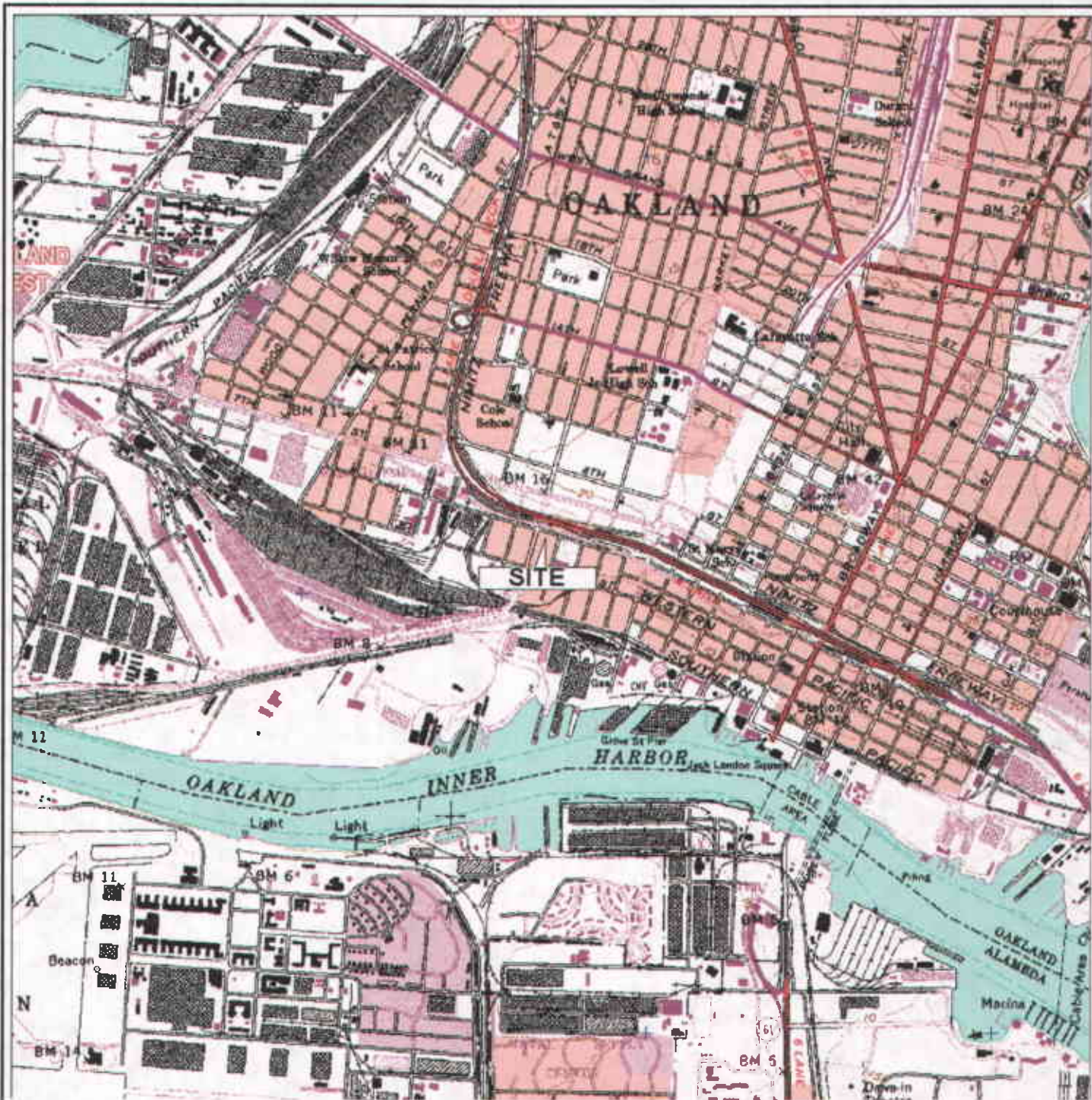
#### 5.0. RECOMMENDATIONS

Based upon data reviewed and collected at the site, AGE recommends continued quarterly ground water monitoring. During the fourth quarter 2004, AGE completed the installation of additional monitoring wells required to delineate the vertical and lateral extent of petroleum hydrocarbon impacts to soil and ground water at the site, as approved in the *Additional Site Assessment Work Plan*. AGE will continue installation of the interim remediation system, scheduled for completion in the first quarter 2005.

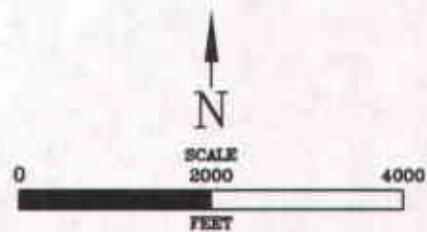
## **6.0. LIMITATIONS**

AGE's professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings were based upon analytical results provided by an independent laboratory. Evaluations of the hydrogeologic conditions at the site for the purpose of this investigation were made from a limited number of available data points (i.e., monitoring wells and ground water samples) and subsurface conditions may vary beyond these data points. No other warranty, expressed or implied, is made as to the professional interpretations, opinions, and recommendations contained in this report.

**FIGURES**



OAKLAND WEST QUADRANGLE, CALIFORNIA  
 7.5 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)

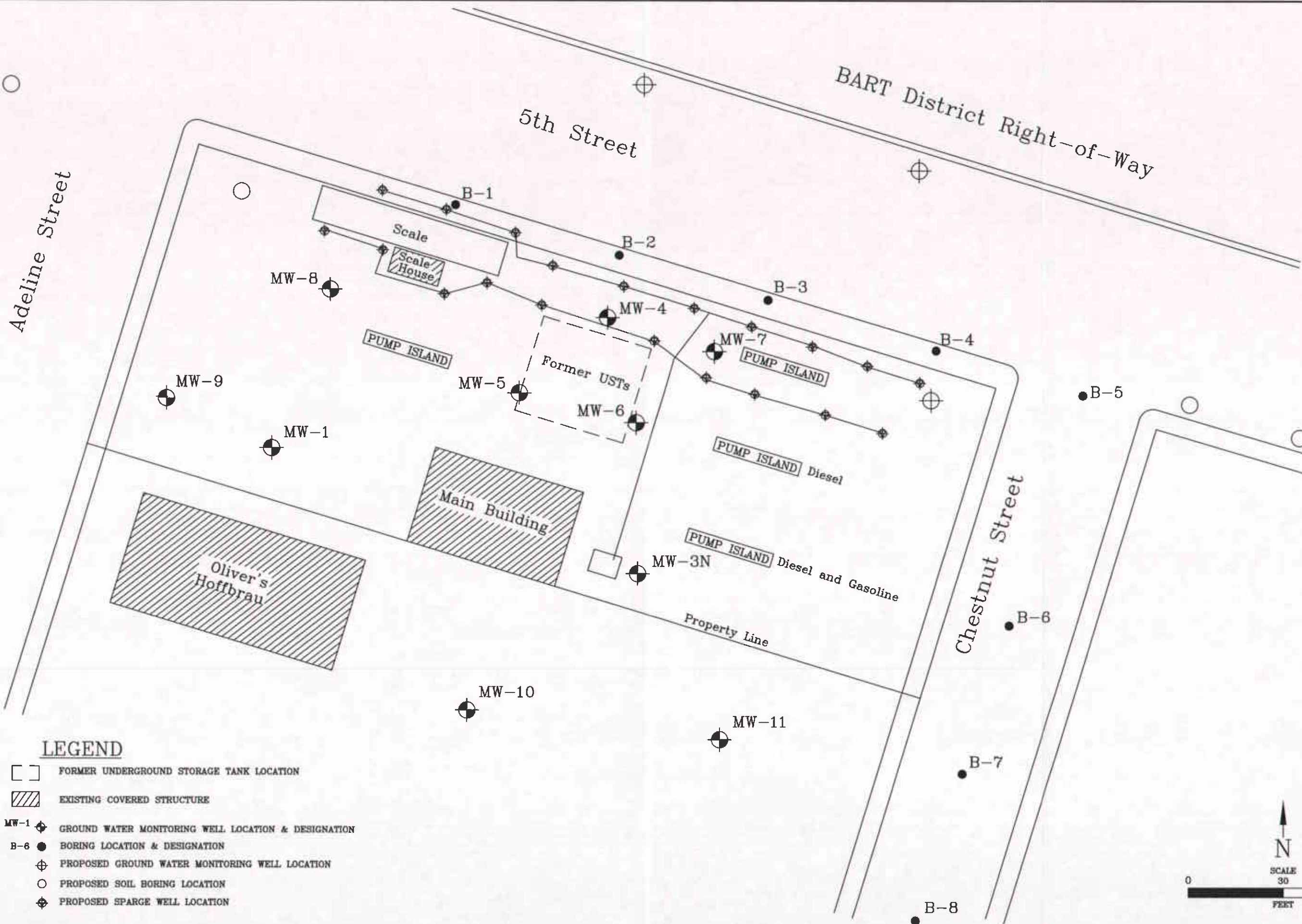


LOCATION MAP  
 RINEHART - OAKLAND TRUCK STOP  
 1107 5TH STREET  
 OAKLAND, CALIFORNIA



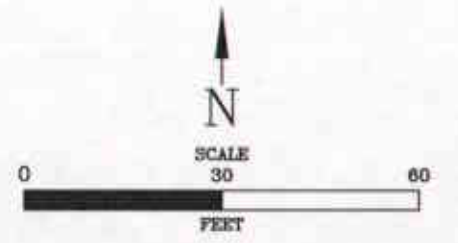
*Advanced*  
**GeoEnvironmental, Inc.**  
*of Northern California*

PROJECT NO. AGE-NC-03-1101	FILE: LOCATION	FIGURE:
DATE: 27 SEPTEMBER 2004	DRAWN BY: MAC	1



**LEGEND**

- FORMER UNDERGROUND STORAGE TANK LOCATION
- ▨ EXISTING COVERED STRUCTURE
- MW-1 ◈ GROUND WATER MONITORING WELL LOCATION & DESIGNATION
- B-6 ● BORING LOCATION & DESIGNATION
- ⊕ PROPOSED GROUND WATER MONITORING WELL LOCATION
- PROPOSED SOIL BORING LOCATION
- ◈ PROPOSED SPARGE WELL LOCATION



**SITE PLAN**  
 RINEHART - OAKLAND TRUCK STOP  
 1107 5TH STREET  
 OAKLAND, CALIFORNIA

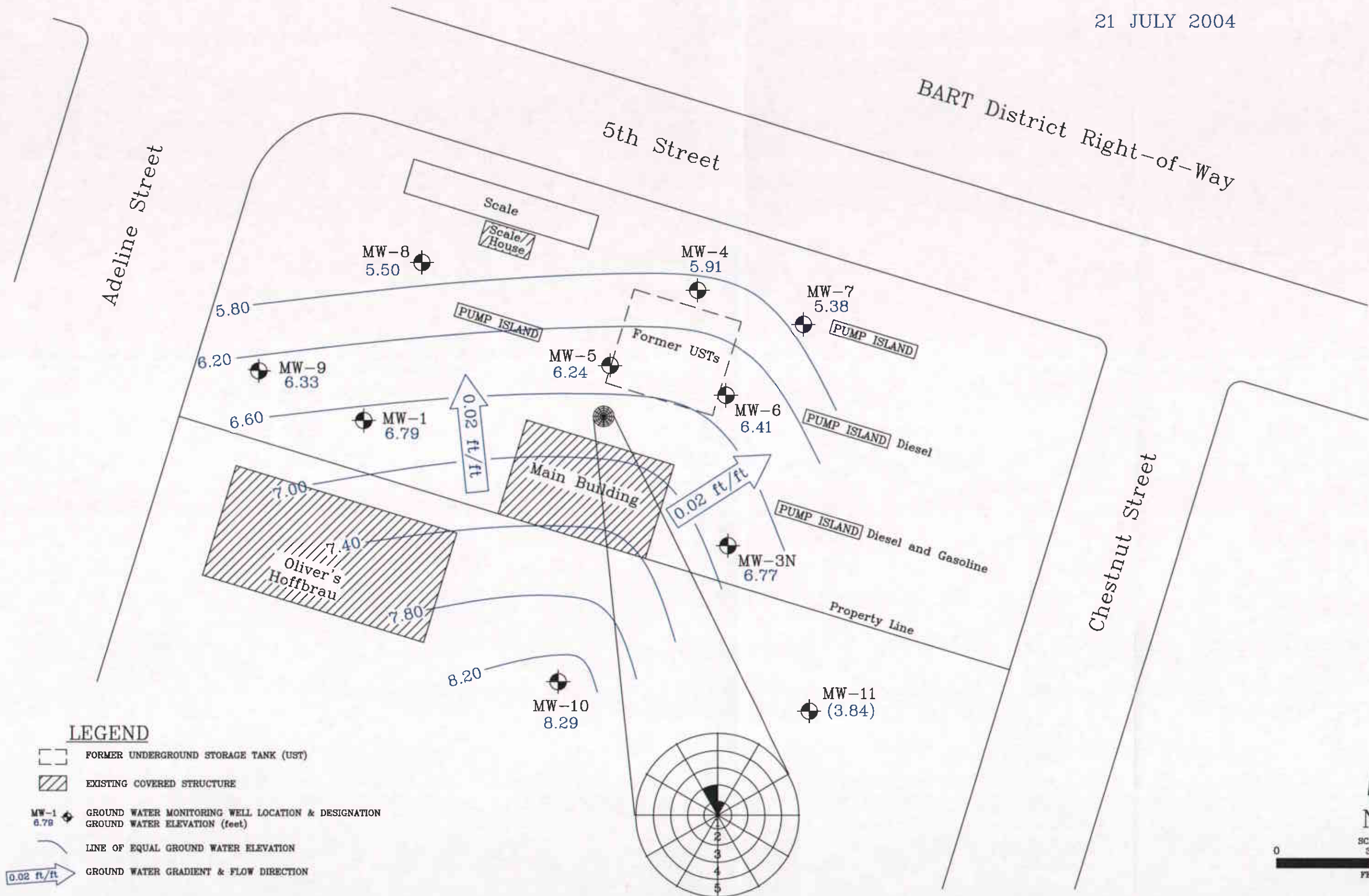
21 JULY 2004

Adeline Street

5th Street

BART District Right-of-Way

Chestnut Street



GROUND WATER ELEVATION  
RINEHART - OAKLAND TRUCK STOP  
1107 5TH STREET  
OAKLAND, CALIFORNIA

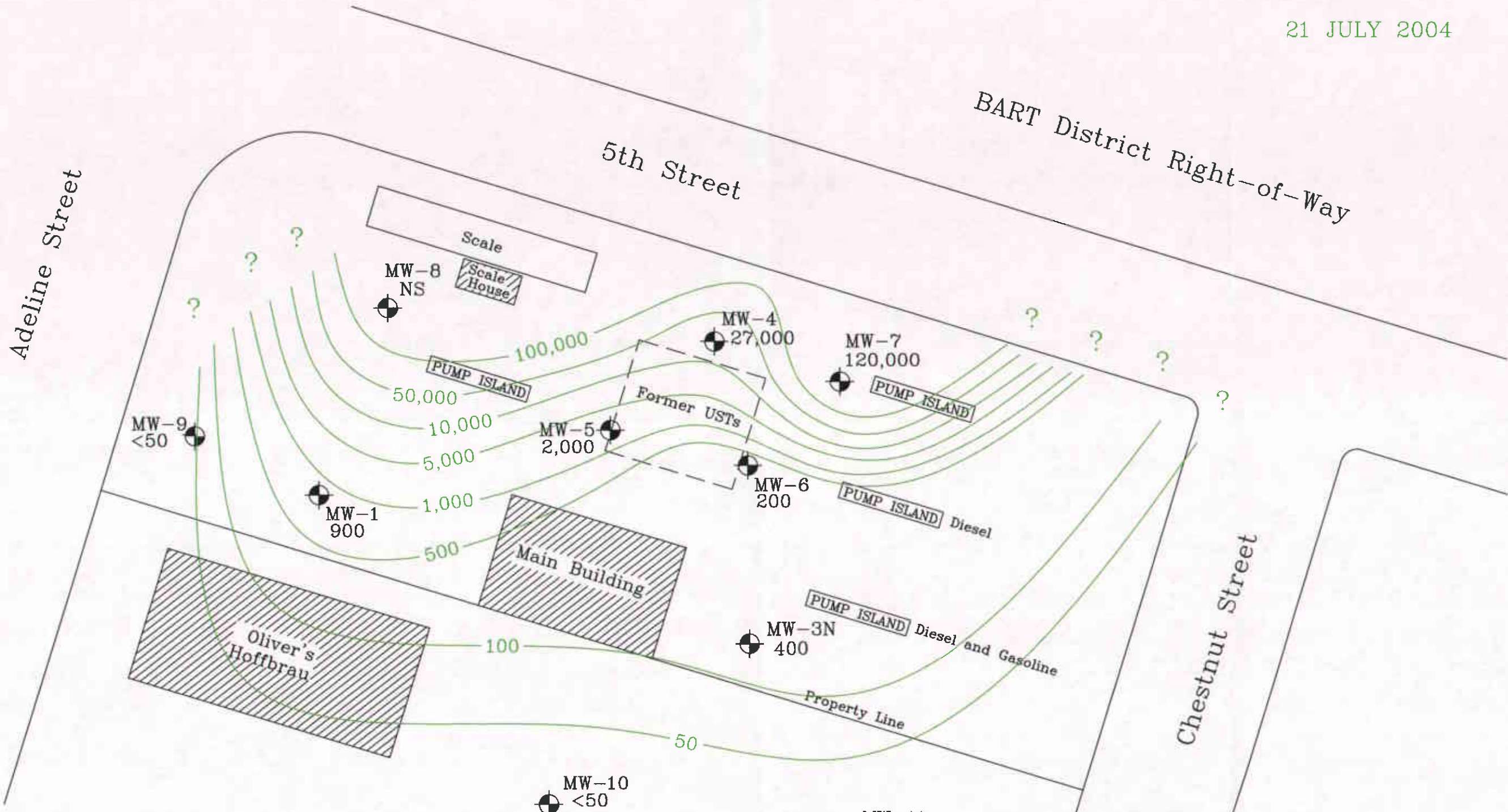
21 JULY 2004

Adeline Street

5th Street

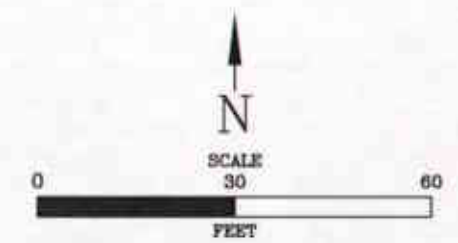
BART District Right-of-Way

Chestnut Street



**LEGEND**

- FORMER UNDERGROUND STORAGE TANK LOCATION
- EXISTING COVERED STRUCTURE
- MW-1 GROUND WATER MONITORING WELL LOCATION & DESIGNATION  
900 TPH-G CONCENTRATION (µg/l)
- TPH-G ISO-CONCENTRATION LINES  
(QUERIED WHERE UNCERTAIN)



**EXTENT OF TPH-G IMPACT**  
**RINEHART - OAKLAND TRUCK STOP**  
 1107 5TH STREET  
 OAKLAND, CALIFORNIA

21 JULY 2004





Adeline Street

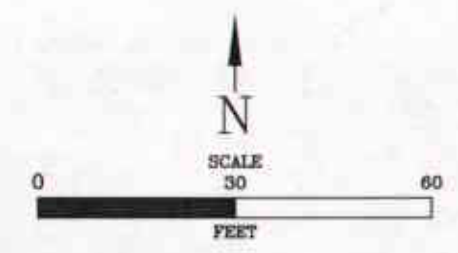
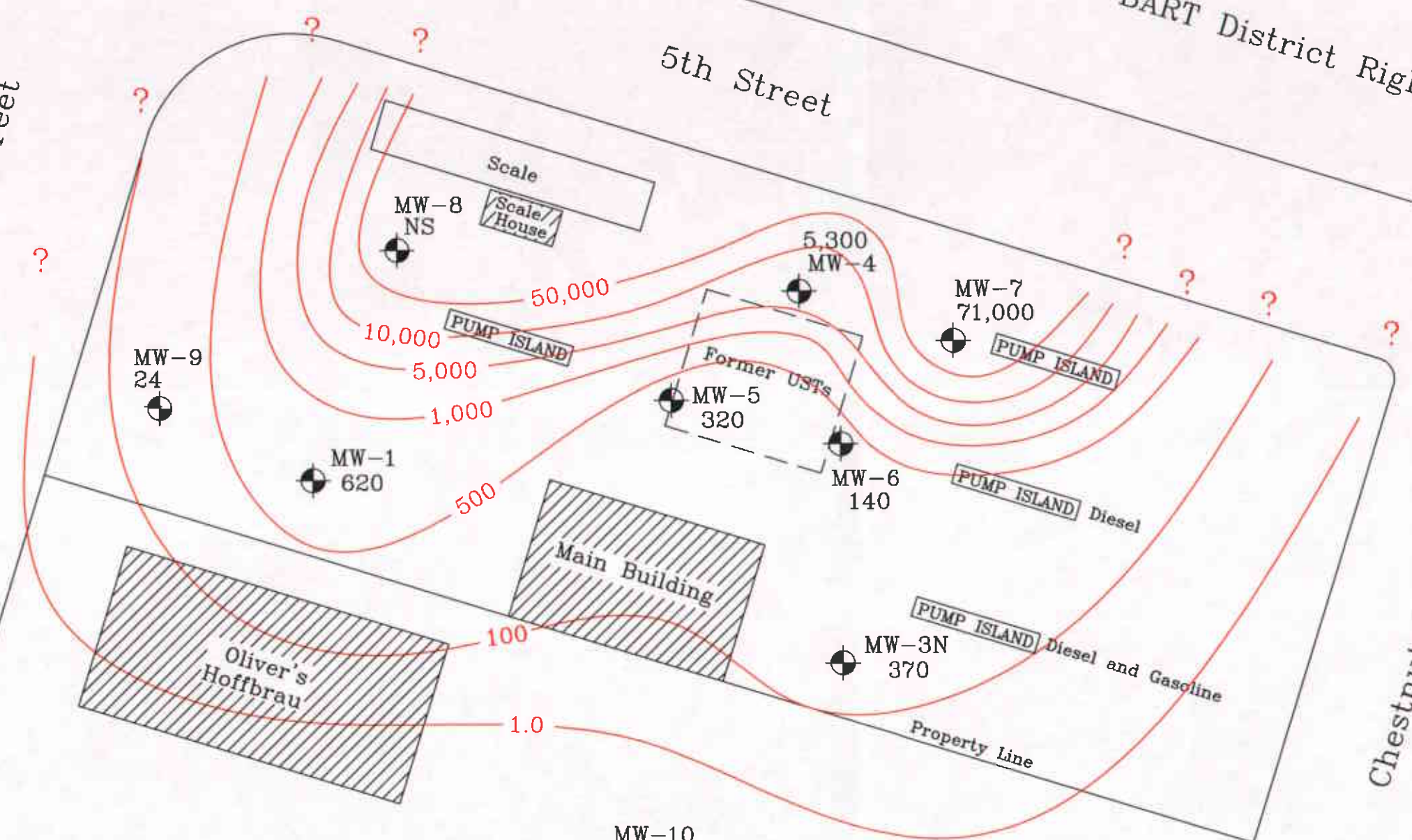
5th Street

BART District Right-of-Way

Chestnut Street

**LEGEND**

-  FORMER UNDERGROUND STORAGE TANK LOCATION
-  EXISTING COVERED STRUCTURE
-  GROUND WATER MONITORING WELL LOCATION & DESIGNATION  
MTBE CONCENTRATION (ug/l)
-  MTBE ISO-CONCENTRATION LINES  
(QUERIED WHERE UNCERTAIN)





**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(feet)**

Well I.D. Casing Elevation (Screen Interval)	Date	Depth to Ground Water	Ground Water Elevation
MW-1 10.34' (10'-20' bsg)	10/21/96	5.08	5.26
	11/04/96	3.02	7.32
	03/04/97	2.28	8.06
	06/12/97	4.80	5.54
	07/14/97	2.66	7.68
	09/09/97	2.45	7.89
	09/19/97	2.60	7.74
	02/13/98	2.76	7.58
	07/07/98	2.15	8.19
	10/01/98	3.63	6.71
	12/30/98	4.40	5.94
	03/21/00	2.62	7.72
	08/30/00	3.21	7.13
	11/06/00	3.10	7.24
	02/22/01	3.50	6.84
	05/07/01	2.94	7.40
	08/22/01	3.70	6.64
	11/04/01	3.89	6.45
	02/15/02	2.95	7.39
	05/20/02	3.29	7.05
08/01/02	3.51	6.83	
11/11/02	4.00	6.34	
02/12/03	3.40	6.94	
05/12/03	3.65	6.69	
08/12/03	3.04	7.30	
01/09/04	4.64	5.70	
04/14/04	6.45	3.89	
07/21/04	3.55	6.79	
MW-3N 11.67' (5'-12' bsg)	05/20/02	3.91	7.76
	08/01/02	4.22	7.45
	11/11/02	4.42	7.25
	02/12/03	3.71	7.96
	05/12/03	3.49	8.18
	08/12/03	4.18	7.49
	01/09/04	3.78	7.89
	04/14/04	4.01	7.66
07/21/04	4.90	6.77	

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(feet)**

Well I.D. Casing Elevation (Screen Interval)	Date	Depth to Ground Water	Ground Water Elevation
MW-4 10.46' (5'-20' bsg)	08/30/00	3.74	6.72
	11/06/00	3.85	6.61
	02/22/01	4.66	5.80
	05/07/01	2.66	7.80
	08/22/01	4.13	6.33
	11/04/01	4.53	5.93
	02/15/02	3.62	6.84
	05/20/02	3.65	6.81
	08/01/02	4.25	6.21
	11/11/02	4.85	5.61
	02/12/03	4.24	6.22
	05/12/03	4.20	6.26
	08/12/03	4.47	5.99
	01/09/04	3.92	6.54
04/14/04	4.04	6.42	
07/21/04	4.55	5.91	
MW-5 10.24' (5'-20' bsg)	08/30/00	3.01	7.23
	11/06/00	3.35	6.89
	02/22/01	3.00	7.24
	05/07/01	2.73	7.51
	08/22/01	3.88	6.36
	11/04/01	3.95	6.29
	02/15/02	2.84	7.40
	05/20/02	2.86	7.38
	08/01/02	3.21	7.03
	11/11/02	4.04	6.20
	02/12/03	3.12	7.12
	05/12/03	3.18	7.06
	08/12/03	3.75	6.49
	01/09/04	3.18	7.06
04/14/04	3.15	7.09	
07/21/04	4.00	6.24	

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(feet)**

Well I.D. Casing Elevation (Screen Interval)	Date	Depth to Ground Water	Ground Water Elevation
MW-6 10.62' (5'-20' bsg)	08/30/00	3.40	7.22
	11/06/00	3.72	6.90
	02/22/01	3.34	7.28
	05/07/01	3.08	7.54
	08/22/01	3.77	6.85
	11/04/01	4.33	6.29
	02/15/02	3.22	7.40
	05/20/02	3.24	7.38
	08/01/02	3.60	7.02
	11/11/02	4.41	6.21
	02/12/03	3.52	7.10
	05/12/03	3.34	7.28
	08/12/03	3.91	6.71
	01/09/04	3.35	7.27
04/14/04	3.40	7.22	
07/21/04	4.21	6.41	
MW-7 11.69' (5'-20' bsg)	08/30/00	6.72	4.97
	11/06/00	6.85	4.84
	02/22/01	6.00	5.69
	05/07/01	6.35	5.34
	08/22/01	6.86	4.83
	11/04/01	6.66	5.03
	02/15/02	6.45	5.24
	05/20/02	6.59	5.10
	08/01/02	6.72	4.97
	11/11/02	6.61	5.08
	02/12/03	5.64	6.05
	05/12/03	5.68	6.01
	08/12/03	6.24	5.45
	01/09/04	5.65	6.04
04/14/04	6.40	5.29	
07/21/04	6.31	5.38	

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(feet)**

Well I.D. Casing Elevation (Screen Interval)	Date	Depth to Ground Water	Ground Water Elevation
MW-8 10.06' (5'-20' bsg)	08/30/00	3.06	7.00
	11/06/00	2.98	7.08
	02/22/01	2.46	7.60
	05/07/01	2.76	7.30
	08/22/01	3.56	6.50
	11/04/01	3.76	6.30
	02/15/02	2.72	7.34
	05/20/02	2.82	7.24
	08/01/02	3.06	7.00
	11/11/02	3.54	6.52
	02/12/03	3.07	6.99
	05/12/03	2.69	7.37
	08/12/03	3.10	6.96
	01/09/04	2.85	7.21
04/14/04	3.45	6.61	
07/21/04	4.56	5.50	
MW-9 10.03' (5'-20' bsg)	08/30/00	2.81	7.22
	11/06/00	2.68	7.35
	02/22/01	2.20	7.83
	05/07/01	2.75	7.28
	08/22/01	3.80	6.23
	11/04/01	3.61	6.42
	02/15/02	2.92	7.11
	05/20/02	2.38	7.65
	08/01/02	2.72	7.31
	11/11/02	2.87	7.16
	02/12/03	2.43	7.60
	05/12/03	2.41	7.62
	08/12/03	2.61	7.42
	01/09/04	2.87	7.16
04/14/04	3.65	6.38	
07/21/04	3.70	6.33	

**TABLE 1**  
**GROUND WATER ELEVATION DATA**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(feet)**

Well I.D. Casing Elevation (Screen Interval)	Date	Depth to Ground Water	Ground Water Elevation
MW-10 11.07' (5'-12' bsg)	05/20/02	4.54	6.53
	06/18/02	4.25	6.82
	08/01/02	1.80	9.27
	11/11/02	1.50	9.57
	02/12/03	1.07	10.00
	05/12/03	1.01	10.06
	08/12/03	1.44	9.63
	01/09/04	0.90	10.17
	04/14/04	2.05	9.02
	07/21/04	2.78	8.29
MW-11 9.64' (5'-12' bsg)	05/20/02	0.84	8.80
	06/18/02	1.71	7.93
	08/01/02	4.88	4.76
	11/11/02	5.18	4.46
	02/12/03	3.85	5.79
	05/12/03	4.00	5.64
	08/12/03	4.31	5.33
	01/09/04	3.74	5.90
	04/14/04	5.73	3.91
	07/21/04	5.80	3.84

Notes:

All measurements reported in feet.  
 bsg: below surface grade

**TABLE 2**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8021**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE (8021)
<b>MW-1</b>	11/04/96	ND	220	ND	ND	ND	ND	NA
	03/05/97	ND	230	ND	ND	ND	ND	NA
	06/12/97	ND	290	ND	ND	ND	ND	NA
	09/09/97	ND	180	ND	ND	ND	ND	NA
	02/13/98	ND	590	ND	ND	ND	ND	NA
	07/07/98	ND	1,400	ND	ND	ND	ND	NA
	10/01/98	ND	1,100	ND	ND	ND	ND	NA
	12/30/98	ND	1,700	ND	ND	ND	ND	NA
	03/21/00	220	3,100	11	ND	ND	ND	NA
	08/30/00	140	1,600	5.3	<0.5	<0.5	<0.5	2,900
	11/06/00	51	1,500	1.0	<0.5	<0.5	<0.5	1,700
	02/22/01	140	3,000	<0.5	<0.5	<0.5	<0.5	1,00
	05/07/01	<50	3,800	<0.5	<0.5	<0.5	<0.5	780
	08/22/01	<110	1,800	<0.5	<0.5	<0.5	<0.5	1,900
	11/04/01	<50	1,300	<0.5	<0.5	<0.5	<0.5	1,600
	02/15/02	<50	2,000	<0.5	<0.5	<0.5	<0.5	610
	05/20/02	<50	160	<0.5	<0.5	<0.5	<0.5	570
	08/01/02	<50	600	<0.5	<0.5	<0.5	<0.5	480
	11/11/02	<50	2,200	<0.5	<0.5	<0.5	<0.5	510
	02/12/03	<50	1,200	<0.5	<0.5	<0.5	<0.5	540
05/12/03	<50	520	<0.5	<0.5	<0.5	<0.5	610	
08/11/03	<50	180	<0.5	<0.5	<0.5	<0.5	740	
01/09/04	610	<50	<0.5	<0.5	<0.5	4.2	NA	
04/14/04	730	<50	<0.5	<0.5	<0.5	<0.6	NA	
07/21/04	900	<50	<0.5	<0.5	<0.5	<0.6	NA	

**TABLE 2**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8021**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE (8021)
MW-3N	05/20/02	<50	1,800	<0.5	<0.5	<0.5	<0.5	1,100
	08/01/02	<50	2,900	<0.5	<0.5	<0.5	<0.5	350
	11/11/02	<50	1,100	<0.5	<0.5	<0.5	<0.5	280
	02/12/03	<50	1,300	<0.5	<0.5	<0.5	<0.5	380
	05/12/03	<50	1,500	<0.5	<0.5	<0.5	<0.5	330
	08/11/03	<50	720	<0.5	<0.5	<0.5	<0.5	250
	01/09/04	230	<50	<0.5	<0.5	<0.5	<0.6	NA
	04/14/04	230	<50	<0.5	<0.5	<0.5	<0.6	NA
07/21/04	400	<50	<0.5	<0.5	<0.5	<0.6	NA	
MW-4	08/30/00	1,300	390	64	63	9.7	110	210,000
	11/06/00	<3,300	170	80	<4.0	<5.0	<3.0	130,000
	11/06/00†	<3,300	NA	86	<4.0	<7.0	<6.0	130,000
	02/22/01	<3,300	120	30	<3.0	<3.0	<3.0	120,000
	05/07/01	<4,200	240	<20	<10.0	<5.0	<5.0	150,000
	08/22/01	<5,400	300	<5.0	<5.0	<5.0	<5.0	160,000
	11/04/01	<5,000	210	<5.0	<5.0	<5.0	<5.0	130,000
	02/15/02	<5,000	340	<5.0	<5.0	<5.0	<10	160,000
	05/20/02	<2,500	200	<25	<25	<25	<25	98,000
	08/01/02	<2,500	200	<25	<25	<25	<25	89,000
	11/11/02	<3,000	200	<25	<25	<25	<25	99,000
	02/12/03	<2,500	88	<25	<25	<25	<25	78,000
	05/12/03	<2,500	88	<25	<25	<25	<25	88,000
	08/11/03	<2,500	66	<25	<25	<25	<25	77,000
	01/09/04	50,000	<50	120	<0.5	<0.5	<0.6	NA
04/14/04	27,000	<50	<0.5	<0.5	<0.5	<0.6	NA	
07/21/04	27,000	<50	<0.5	<0.5	<0.5	<0.6	NA	

**TABLE 2**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8021**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE (8021)
<b>MW-5</b>	08/30/00	<b>1,000</b>	<b>450</b>	<5.0	<5.0	<5.0	<5.0	<b>52,000</b>
	11/06/00	<1,000	<b>520</b>	<1.0	<1.0	<1.0	<1.0	<b>44,000</b>
	02/22/01	<1,000	<b>270</b>	<1.0	<1.0	<1.0	<1.0	<b>30,000</b>
	05/07/01	<1,800	<b>470</b>	<5.0	<2.0	<2.0	<2.0	<b>48,000</b>
	08/22/01	<2,200	<b>780</b>	<3.0	<3.0	<3.0	<3.0	<b>63,000</b>
	11/04/01	<1,700	<b>670</b>	<2.0	<2.0	<2.0	<2.0	<b>44,000</b>
	02/15/02	<1,100	<b>480</b>	<1.0	<1.0	<1.0	<1.0	<b>33,000</b>
	05/20/02	<500	<b>1,600</b>	<5.0	<5.0	<5.0	<5.0	<b>21,000</b>
	08/01/02	<500	<b>810</b>	<5.0	<5.0	<5.0	<5.0	<b>21,000</b>
	11/11/02	<500	<b>2,100</b>	<5.0	<5.0	<5.0	<5.0	<b>10,000</b>
	02/12/03	<170	<b>2,900</b>	<b>30</b>	<1.7	<1.7	<1.7	<b>3,700</b>
	05/12/03	<500	<b>1,500</b>	<b>13</b>	<5.0	<5.0	<5.0	<b>19,000</b>
	08/11/03	<b>71</b>	<b>2,200</b>	<b>9.5</b>	<0.5	<0.5	<0.5	<b>1,500</b>
	01/09/04	<b>1,500</b>	<50	<0.5	<0.5	<0.5	<0.6	NA
	04/14/04	<b>500</b>	<50	<b>20</b>	<0.5	<0.5	<0.6	NA
07/21/04	<b>2,000</b>	<50	<b>2.2</b>	<0.5	<0.5	<0.6	NA	



**TABLE 2**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8021**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE (8021)
<b>MW-6</b>	08/30/00	<b>1,300</b>	<b>1,300</b>	<b>55</b>	<0.5	<b>16</b>	<b>27</b>	<b>23,000</b>
	11/06/00	<630	<b>1,100</b>	<b>7</b>	<b>8.1</b>	<3.0	<b>5.2</b>	<b>26,000</b>
	02/22/01	<200	<b>420</b>	<5.0	<5.0	<5.0	<5.0	<b>6,500</b>
	05/07/01	<1,000	<b>900</b>	<2.0	<2.0	<1.0	<1.0	<b>37,000</b>
	08/22/01	<350	<b>520</b>	<2.0	<1.0	<0.5	<0.5	<b>8,600</b>
	11/04/01	<500	<b>420</b>	<2.0	<2.0	<0.5	<0.5	<b>12,000</b>
	02/15/02	<960	<b>910</b>	<b>2.6</b>	<b>4.5</b>	<1.0	<b>4.2</b>	<b>23,000</b>
	05/20/02	<620	<b>690</b>	<6.2	<6.2	<6.2	<6.2	<b>25,000</b>
	08/01/02	<250	<b>1,100</b>	<b>8.0</b>	<2.5	<2.5	<2.5	<b>8,100</b>
	11/11/02	<500	<b>1,000</b>	<5.0	<5.0	<5.0	<5.0	<b>11,000</b>
	02/12/03	<250	<b>970</b>	<2.5	<2.5	<2.5	<2.5	<b>7,400</b>
	05/12/03	<1,000	<b>2,100</b>	<10	<10	<10	<10	<b>32,000</b>
	08/11/03	<b>110</b>	<b>630</b>	<b>6.8</b>	<1	<1.0	<1.0	<b>2,800</b>
	01/09/04	<b>700</b>	<50	<0.5	<0.5	<0.5	<0.6	NA
	04/14/04	<b>200</b>	<50	<0.5	<0.5	<0.5	<0.6	NA
07/21/04	<b>200</b>	<50	<0.5	<0.5	<0.5	<0.6	NA	

**TABLE 2**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8021**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE (8021)
MW-7	08/30/00	160,000	2,600	28,000	15,000	1,200	5,900	800,000
	11/06/00	80,000	1,700	23,000	12,000	1,200	5,000	540,000
	02/22/01	80,000	2,000	19,000	12,000	1,100	3,200	440,000
	02/22/01†	84,000	2,400	20,000	13,000	1,200	3,400	400,000
	05/07/01	100,000	7,600	25,000	16,000	1,700	6,600	460,000
	05/07/01†	100,000	8,200	25,000	17,000	1,700	6,700	530,000
	08/22/01	110,000	22,000	18,000	12,000	2,000	9,400	240,000
	11/04/01	85,000	6,500	17,000	2,700	2,100	9,700	150,000
	02/15/02	96,000	21,000	21,000	7,300	2,600	13,000	180,000
	02/15/02†	160,000	29,000	30,000	27,000	3,700	19,000	170,000
	05/20/02	140,000	310,000	24,000	21,000	3,800	20,000	180,000
	08/01/02	110,000	160,000	15,000	16,000	4,000	21,000	120,000
	11/11/02	110,000	240,000	14,000	11,000	4,100	19,000	74,000
	02/12/03	130,000	75,000	25,000	8,900	3,400	17,000	87,000
	05/12/03	98,000	7,100	25,000	520	2,600	12,000	140,000
	08/11/03	90,000	12,000	15,000	1,100	2,600	12,000	140,000
	01/09/04	130,000	18,000	9,500	340	190	3,700	NA
04/14/04	330,000	22	23,000	300	1,900	5,600	NA	
07/21/04	120,000	14	11,000	730	1,000	1,250	NA	

**TABLE 2**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8021**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE (8021)
<b>MW-8</b>	08/30/00	<1,000	<b>690</b>	<b>18</b>	<1.0	<1.0	<1.0	<b>28,000</b>
	11/06/00	<3,300	<b>810</b>	<8.0	<5.0	<3.0	<7.0	<b>120,000</b>
	02/22/01	<2,500	<b>1,100</b>	<b>53</b>	<3.0	<3.0	<3.0	<b>99,000</b>
	05/07/01	<5,00	<b>1,300</b>	<b>32</b>	<10	<5.0	<5.0	<b>110,000</b>
	08/22/01	<4,000	<b>1,200</b>	<5.0	<5.0	<5.0	<b>16</b>	<b>76,000</b>
	11/04/01	<b>590</b>	<b>1,100</b>	<b>6.9</b>	<0.5	<0.5	<0.5	<b>60,000</b>
	02/15/02	<3,400	<b>1,500</b>	<5.0	<5.0	<5.0	<5.0	<b>110,000</b>
	05/20/02	<1,700	<b>2,200</b>	<17	<17	<17	<17	<b>66,000</b>
	08/01/02	<1,200	<b>2,800</b>	<12	<12	<12	<12	<b>53,000</b>
	11/11/02	<2,000	<b>11,000</b>	<10	<b>18</b>	<10	<10	<b>48,000</b>
	02/12/03	<1,700	<b>5,800</b>	<17	<17	<17	<17	<b>49,000</b>
	05/12/03	<2,500	<b>4,500</b>	<b>94</b>	<25	<25	<25	<b>52,000</b>
	08/11/03	<2,500	<b>23,000</b>	<b>92</b>	<25	<25	<25	<b>42,000</b>
	01/09/04	<b>51,000</b>	<b>12,000</b>	<b>2.4</b>	<0.5	<0.5	<b>2.1</b>	NA
	04/14/04	NS	NS	NS	NS	NS	NS	NS
07/21/04	NS	NS	NS	NS	NS	NS	NS	

**TABLE 2**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8021**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE (8021)
MW-9	08/30/00	<50	770	<0.5	<0.5	<0.5	<0.5	97
	11/06/00	<50	390	<0.5	<0.5	<0.5	<0.5	190
	02/22/01	<50	240	<0.5	<0.5	<0.5	<0.5	120
	05/07/01	<50	190	<0.5	<0.5	<0.5	<0.5	120
	08/22/01	<50	120	<0.5	<0.5	<0.5	<0.5	120
	11/04/01	<50	160	<0.5	<0.5	<0.5	<0.5	130
	02/15/02	<50	150	<0.5	<0.5	<0.5	<0.5	92
	05/20/02	<50	380	<0.5	<0.5	<0.5	<0.5	79
	08/01/02	<50	320	<0.5	<0.5	<0.5	<0.5	74
	11/11/02	<50	150	<0.5	<0.5	<0.5	<0.5	76
	02/12/03	<50	350	<0.5	<0.5	<0.5	<0.5	55
	05/12/03	<50	380	<0.5	<0.5	<0.5	<0.5	45
	08/11/03	<50	88	<0.5	<0.5	<0.5	<0.5	36
	01/09/04	200	<50	<0.5	<0.5	<0.5	4.7	NA
04/14/04	180	<50	<0.5	<0.5	<0.5	<0.6	NA	
07/21/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	
MW-10	08/01/02	<50	720	1.0	<0.5	<0.5	<0.5	<5.0
	11/11/02	<50	100	0.72	<0.5	<0.5	<0.5	<5.0
	02/12/03	<50	71	0.63	<0.5	<0.5	<0.5	<5.0
	05/12/03	<50	96	0.56	<0.5	<0.5	<5.0	<5.0
	08/11/03	<50	110	0.93	<0.5	<0.5	<0.5	<5.0
	01/09/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA
	04/14/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA
	07/21/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA

**TABLE 2**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8021**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE (8021)
<b>MW-11</b>	05/20/02	<50	<b>95</b>	<b>1.5</b>	<b>3.0</b>	<0.5	<b>1.4</b>	<b>260</b>
	08/01/02	<50	<b>190</b>	<0.5	<b>1.9</b>	<b>0.6</b>	<0.5	<b>52</b>
	11/11/02	<50	<b>140</b>	<0.5	<b>2.1</b>	<b>1.1</b>	<0.5	<b>23</b>
	02/12/03	<50	<b>86</b>	<0.5	<b>1.7</b>	<0.5	<0.5	<5.0
	05/12/03	<50	<b>62</b>	<0.5	<b>1.1</b>	<0.5	<0.5	<5.0
	08/11/03	<50	<b>72</b>	<0.5	<b>0.66</b>	<0.5	<0.5	<5.0
	01/09/04	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
	04/14/04	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
07/21/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	
<b>MCL</b>		<b>NE</b>	<b>NE</b>	<b>1</b>	<b>150</b>	<b>700</b>	<b>1,750</b>	<b>13</b>

*Notes:*

- µg/l: micrograms per liter
- †: duplicate sample
- NA: not analyzed
- NS: not sampled
- TPH-g/-d: total petroleum hydrocarbons quantified as gasoline/diesel
- MTBE: methyl tertiary-butyl ether
- MCL: primary Maximum Contaminant Level for drinking water in California
- NE: no MCL has been established

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
 1107 5<sup>th</sup> Street, Oakland, California  
 (µg/l)

Well ID	Date	MTBE (8260)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
<b>MW-1</b>	11/04/96	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/05/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/12/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/13/98	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/07/98	2.7	NA	NA	NA	NA	NA	NA	NA	NA
	10/01/98	1.8	NA	NA	NA	NA	NA	NA	NA	NA
	12/30/98	2.3	NA	NA	NA	NA	NA	NA	NA	NA
	03/21/00	4,800	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	2,100	<50	<50	<50	<250	NA	NA	<50	<50
	02/22/01	1,100	<20	<20	<20	<100	<4,000	<1,000	<20	<20
	05/07/01	1,100	<20	<20	<20	<100	<10,000	<1,000	<20	<20
	08/22/01	1,600	<25	<25	<25	<130	NA	NA	<25	<25
	11/04/01	1,500	<50	<50	<50	<250	NA	NA	<50	<50
	02/15/02	770	<20	<20	<20	<100	<10,000	<1,000	<20	<20
	05/20/02	730	<10	<10	<10	<100	<10,000	<1,000	<10	<10
	08/01/02	610	<10	<10	<10	<100	<10,000	<1,000	<10	<10
	11/11/02	600	<10	<10	<10	<100	<10,000	<1,000	<10	<10
	02/12/03	640	<10	<10	<10	<100	<10,000	<1,000	<10	<10
05/12/03	580	<10	<10	<10	<100	<10,000	<1,000	<10	<10	
08/11/03	660	<12	<12	<12	<120	<12,000	<1,200	<12	<12	
01/09/04	590	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5	
04/14/04	730	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5	
07/21/04	620	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5	

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well ID	Date	MTBE (8260)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-3N	05/20/02	1,500	<25	<25	<25	<250	<25,000	<2,500	<25	<25
	08/01/02	540	<10	<10	14	<100	<10,000	<1,00	<10	<10
	11/11/02	270	<5.0	<5.0	7.1	<50	<5,000	<500	<5.0	<5.0
	02/12/03	410	<5.0	<5.0	<5.0	<50	<5,000	<500	<5.0	<5.0
	05/12/03	360	<6.2	<6.2	<6.2	<62	<6,200	<620	<6.2	<6.2
	08/11/03	280	<5.0	<5.0	<5.0	<50	<5,000	<500	<5.0	<5.0
	01/09/04	230	<1.0	<1.0	2.5	<10	<1,000	<50	<0.5	<0.5
	04/14/04	220	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	07/21/04	370	<1.0	<1.0	4.4	<10	NA	NA	<0.5	<0.5
MW-4	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	120,000	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	11/06/00†	120,000	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	02/22/01	150,000	<2,500	<2,500	<2,500	<13,000	<500,000	<130,000	<2,500	<2,500
	05/07/01	200,000	<5,000	<5,000	<5,000	<25,000	<2,500,000	<250,000	<5,000	<5,000
	08/22/01	190,000	<5,000	<5,000	<5,000	<25,000	NA	NA	<5,000	<5,000
	11/04/01	170,000	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	02/15/02	160,000	<2,500	<2,500	<2,500	<12,500	<1,250,000	<125,000	<2,500	<2,500
	05/20/02	130,000	<1,700	<1,700	<1,700	<17,000	<2,500,000	<170,000	<1,700	<1,700
	08/01/02	100,000	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	11/11/02	84,000	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	02/12/03	70,000	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	05/12/03	86,000	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	08/11/03	74,000	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	01/09/04	50,000	<1.0	<1.0	85	<10	<1,000	<50	<0.5	<0.5
04/14/04	27,000	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5	
07/21/04	5,300	<1.0	<1.0	3.6	150,000	NA	NA	<0.5	<0.5	

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well ID	Date	MTBE (8260)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
<b>MW-5</b>	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	<b>42,000</b>	<1,000	<1,000	<1,000	<5,000	NA	NA	<1,000	<1,000
	02/22/01	<b>39,000</b>	<500	<500	<500	<2,500	<100,000	<25,000	<500	<500
	05/07/01	<b>59,000</b>	<1,000	<1,000	<1,000	<5,000	<500,000	<50,000	<1,000	<1,000
	08/22/01	<b>70,000</b>	<1,000	<1,000	<1,000	<5,000	NA	NA	<1,000	<1,000
	11/04/01	<b>37,000</b>	<1,000	<1,000	<1,000	<5,000	NA	NA	<1,000	<1,000
	02/15/02	<b>33,000</b>	<1,250	<1,250	<1,250	<6,250	<625,000	<62,500	<1,250	<1,250
	05/20/02	<b>28,000</b>	<500	<500	<500	<5,000	<500,000	<50,000	<500	<500
	08/01/02	<b>24,000</b>	<500	<500	<500	<5,000	<500,000	<50,000	<500	<500
	11/11/02	<b>8,800</b>	<200	<200	<200	<b>10,000</b>	<200,000	<20,000	<200	<200
	02/12/03	<b>3,200</b>	<100	<100	<100	<b>4,100</b>	<100,000	<10,000	<100	<100
	05/12/03	<b>21,000</b>	<500	<500	<500	<b>5,200</b>	<500,000	<50,000	<500	<500
	08/11/03	<b>1,700</b>	<50	<50	<50	<b>14,000</b>	<50,000	<5,000	<50	<50
	01/09/04	<b>1,500</b>	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	04/14/04	<b>430</b>	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
07/21/04	<b>320</b>	<1.0	<1.0	<1.0	<b>15,000</b>	NA	NA	<0.5	<0.5	



**TABLE 3**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well ID	Date	MTBE (8260)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
<b>MW-6</b>	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	27,000	<630	<630	<630	<3,200	NA	NA	<630	<630
	02/22/01	8,000	<100	<100	<100	<500	<20,000	<5,000	<100	<100
	05/07/01	40,000	<500	<500	<500	<2,500	<250,000	<25,000	<500	<500
	08/22/01	8,800	<200	<200	<200	<1,000	NA	NA	<200	<200
	11/04/01	17,000	<250	<250	<250	<1,300	NA	NA	<250	<250
	02/15/02	26,000	<1,000	<1,000	<1,000	<5,000	<500,000	<50,000	<1,000	<1,000
	05/20/02	37,000	<500	<500	<500	<5,000	<500,000	<50,000	<500	<500
	08/01/02	9,100	<170	<170	<170	3,800	<170,000	<17,000	<170	<170
	11/11/02	11,000	<250	<250	<250	8,600	<250,000	<25,000	<250	<250
	02/12/03	8,300	<120	<120	<120	4,600	<120,000	<12,000	<120	<120
	05/12/03	29,000	<500	<500	<500	8,700	<500,000	<50,000	<500	<500
	08/11/03	2,300	<100	<100	<100	27,000	<100,000	<10,000	<100	<100
	01/09/04	690	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	04/14/04	190	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
07/21/04	140	<1.0	<1.0	<1.0	15,000	NA	NA	<0.5	<0.5	

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well ID	Date	MTBE (8260)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
<b>MW-7</b>	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	<b>920,000</b>	<13,000	<13,000	<13,000	<63,000	NA	NA	<13,000	<13,000
	02/22/01	<b>460,000</b>	<5,000	<5,000	<5,000	<2,500	<1,000,000	<250,000	<5,000	<5,000
	02/22/01†	<b>500,000</b>	<5,000	<5,000	<5,000	<25,000	<1,000,000	<250,000	<5,000	<5,000
	05/07/01	<b>520,000</b>	<5,000	<5,000	<5,000	<2,500	<2,500,000	<250,000	<5,000	<5,000
	05/07/01†	<b>500,000</b>	<5,000	<5,000	<5,000	<25,000	<2,500,000	<5,000	<5,000	<5,000
	08/22/01	<b>250,000</b>	<5,000	<5,000	<5,000	<25,000	NA	NA	<5,000	<5,000
	11/04/01	<b>180,000</b>	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	02/15/02	<b>200,000</b>	<5,000	<5,000	<5,000	<25,000	<2,500,000	<250,000	<5,000	<5,000
	02/15/02†	<b>200,000</b>	<5,000	<5,000	<5,000	<25,000	<2,500,000	<250,000	<5,000	<5,000
	05/20/02	<b>220,000</b>	<5,000	<5,000	<5,000	<50,000	<5,000,000	<500,000	<5,000	<5,000
	08/01/02	<b>150,000</b>	<2,500	<2,500	<2,500	<25,000	<2,500,000	<250,000	<2,500	<2,500
	11/11/02	<b>77,000</b>	<1,200	<1,200	<1,200	<12,000	<1,200,000	<120,000	<1,200	<1,200
	02/12/03	<b>110,000</b>	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	05/12/03	<b>220,000</b>	<5,000	<5,000	<5,000	<5,000	<5,000,000	<500,000	<5,000	<5,000
	08/11/03	<b>140,000</b>	<5,000	<5,000	<5,000	<5,000	<5,000,000	<500,00	<5,000	<5,000
	01/09/04	<b>120,000</b>	<1.0	<1.0	<b>900</b>	<10	<1,000	<50	<0.5	<b>420</b>
04/14/04	<b>220,000</b>	<1.0	<1.0	<b>660</b>	<10	<1,000	<50	<0.5	<b>400</b>	
07/21/04	<b>71,000</b>	<1.0	<1.0	<b>370</b>	<10	NA	NA	<0.5	<b>300</b>	

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well ID	Date	MTBE (8260)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-8	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	76,000	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	02/22/01	130,000	<2,000	<2,000	<2,000	<10,000	<400,000	<100,000	<2,000	<2,000
	05/07/01	120,000	<2,500	<2,500	<2,500	<13,000	<1,300,000	<13,000	<2,500	<2,500
	08/22/01	86,000	<1,700	<1,700	<1,700	<8,500	NA	NA	<1,700	<1,700
	11/04/01	49,000	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	02/15/02	91,000	<2,500	<2,500	<2,500	<12,500	<1,250,000	<125,000	<2,500	<2,500
	05/20/02	86,000	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	08/01/02	67,000	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	11/11/02	51,000	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	02/12/03	51,000	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	05/12/03	60,000	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	08/11/03	42,000	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	01/09/04	50,000	<1.0	<1.0	160	<10	<1,000	<50	<0.5	<0.5
	04/14/04	NS	NS	NS	NS	NS	NS	NS	NS	NS
07/21/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well ID	Date	MTBE (8260)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
<b>MW-9</b>	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	<b>220</b>	<25	<25	<25	<125	NA	NA	<5.0	<5.0
	02/22/01	<b>160</b>	<2.0	<2.0	<2.0	<1.0	<400	<100	<2.0	<2.0
	05/07/01	<b>150</b>	<2.5	<2.5	<2.5	<13	<1,300	<130	<2.5	<2.5
	08/22/01	<b>120</b>	<5.0	<5.0	<5.0	<25	NA	NA	<5.0	<5.0
	11/04/01	<b>120</b>	<5.0	<5.0	<5.0	<25	NA	NA	<5.0	<5.0
	02/15/02	<b>98</b>	<2.5	<2.5	<2.5	<12.5	<1,250	<125	<2.5	<2.5
	05/20/02	<b>85</b>	<2.5	<2.5	<2.5	<25	<2,500	<250	<2.5	<2.5
	08/01/02	<b>84</b>	<1.0	<1.0	<1.0	<10	<1,000	<100	<1.0	<1.0
	11/11/02	<b>61</b>	<2.5	<2.5	<2.5	<25	<2,500	<250	<2.5	<2.5
	02/12/03	<b>50</b>	<1.0	<1.0	<1.0	<10	<1,000	<100	<1.0	<1.0
	05/12/03	<b>45</b>	<1.0	<1.0	<1.0	<10	<1,000	<100	<1.0	<1.0
	08/11/03	<b>42</b>	<1.0	<1.0	<1.0	<10	<1,000	<100	<1.0	<1.0
	01/09/04	<b>140</b>	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	04/14/04	<b>180</b>	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
07/21/04	<b>24</b>	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5	
<b>MW-10</b>	08/01/02	<b>1.1</b>	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	11/11/02	<b>0.7</b>	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	02/12/03	<0.5	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	05/12/03	<b>0.59</b>	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	08/11/03	<b>0.73</b>	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	01/09/04	<1.0	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	04/14/04	<1.0	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	07/21/04	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5

**TABLE 3**  
**ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260**  
**RINEHART OIL, INC. - OAKLAND TRUCK STOP**  
**1107 5<sup>th</sup> Street, Oakland, California**  
**(µg/l)**

Well ID	Date	MTBE (8260)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-11	05/20/02	310	<5.0	<5.0	<5.0	<50	<5,000	<500	<5.0	<5.0
	08/01/02	65	<1.0	<1.0	<1.0	<10	<1,000	<100	<1.0	<1.0
	11/11/02	15	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	02/12/03	2.6	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	05/12/03	2.3	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	08/11/03	2.3	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	01/09/04	<1.0	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	04/14/04	<1.0	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	07/21/04	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
<b>MCL</b>		<b>13</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>12**</b>	<b>NE</b>	<b>NE</b>	<b>0.05</b>	<b>0.5</b>

Notes:

- µg/l: micrograms per liter
- †: duplicate sample
- NA: not analyzed
- NS: not sampled
- MTBE: methyl tertiary-butyl ether
- DIPE: di-isopropyl ether
- ETBE: ethyl tertiary-butyl ether
- TAME: tertiary-amyl methyl ether
- TBA: tertiary-butyl alcohol
- EDB: ethylene dibromide (1,2-dibromoethane)
- 1,2-DCA: 1,2-dichloroethane
- MCL: primary Maximum Contaminant Level for drinking water in California
- NE: no MCL has been established
- \*\* : Action Level, not MCL

**APPENDIX A**

**Site Background Information**  
**Rinehart Oil, Inc - Oakland Truck Stop**  
**1107 5<sup>th</sup> Street, Oakland, California**

**BACKGROUND**

The site is located at 1107 5<sup>th</sup> Street in a commercial and industrial area of west Oakland, California (Figure 1). The property contains a service station building, four fuel dispenser islands, a truck scale, scale house, and two underground storage tanks (USTs). The site has been a truck stop for the past forty years

**REGIONAL GEOLOGIC/HYDROGEOLOGIC SETTING**

The site is situated within the Coast Range Geomorphic Province of California. This geomorphic province contains coastal foothills and mountains, and extends from the Tehachapi Mountains in the south to the Klamath Mountains in the north. The western and eastern boundaries of this province are comprised of the Pacific Ocean and the Great Valley Geomorphic Province, respectively.

The site is located in the Franciscan Complex, which is subdivided into four major divisions identified as the Northern Coast Range, the Franciscan Block, the Diablo Range, and the Nacimiento Block. The site is situated within the Franciscan Block, an assemblage of variably deformed and metamorphosed rock units. The surface is composed of Quaternary alluvium; at depth, the site is underlain by rocks of the Franciscan Complex, which are composed predominately of detrital sedimentary rocks with volcanic tuffs and deep ocean marine sediments. The Franciscan lithologies typically have low porosity and permeability.

Based upon the General Soil Map from the *Soil Survey of Alameda County, Western Part*, issued by the United States Department of Agriculture Soil Conservation Service in 1981, the site area is situated within the Urban land-Danville complex. This complex is located on low terraces and alluvial fans at an elevation of about 20 feet to 300 feet above mean sea level (MSL), and consists of about 60 percent Urban land, 30 percent Danville soil, and 10 percent other soils. Danville soil is a silty clay loam that formed in alluvium originating primarily from sedimentary rock. Urban land consists of areas covered by roads, parking lots, and buildings. The nearest surface water feature in the vicinity of the property is the Oakland Estuary, approximately 2,400 feet to the south of the subject property.

Based on data from previous monitoring events, ground water at the property varies seasonally between approximately 10 inches to 6 feet below surface grade (bsg). The ground water flow has varied from southwest to north. This may be affected by changing recharge and discharge patterns, as well as leaking pipes.

## UNDERGROUND STORAGE TANK REMOVAL

In March 1999, two 10,000-gallon diesel USTs, one 10,000-gallon gasoline UST, and one 8,000-gallon gasoline UST were removed from the site. The approximate location of the former USTs is shown on Figure 2.

Interim remedial action was performed during the UST removal addressing contaminated soil and ground water. Approximately 2,100 tons of contaminated soil were removed from the excavation. Soil samples were collected from the excavation and stockpiles as directed by the Fire Inspector. Contaminated ground water was removed from the excavation pit; approximately 33,000 gallons of water were pumped into temporary storage tanks, which were then transported and disposed of off-site. Approximately 1,700 tons of backfill was placed in the excavation.

Results of the soil samples taken during the excavation are not available.

## SITE ASSESSMENT ACTIVITIES

In November 1996, ground water monitoring wells MW-1 through MW-3 were installed to a depth of 20 feet bsg to assess contamination from an unauthorized release of fuel, which was repaired as soon as it was discovered. Product recovery sumps equipped with skimmers were installed in the wells and approximately 6 gallons of gasoline were recovered.

Monitoring well MW-2 was destroyed in January 1999. Additional monitoring wells MW-4 through MW-9 were installed to a total depth of 20 feet bsg in August 2000. Contamination was detected in each of the wells, and free product was sometimes evident in well MW-7.

Monitoring wells MW-10 and MW-11 were installed in May 2002 to a total depth of 12 feet bsg. At this time, well MW-3 was abandoned and well MW-3N was installed to a depth of 12 feet bsg.

In July 2002, several soil borings were advanced to total depths between 5 feet and 8 feet bsg to determine if contamination was migrating off-site along preferential pathways (i.e. utility trenches). Sample results indicated high MTBE concentrations that ranged from 170,000 µg/l to 460,000 µg/l in grab ground water samples from borings drilled directly north of the site, along the 5<sup>th</sup> Street sewer line. Borings east of the site had little to no contamination.

A passive skimmer was placed inside monitoring well MW-7 in January 2003 to remove free product.

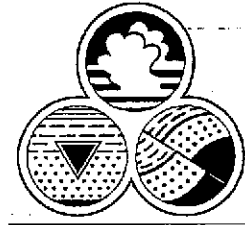
During monitoring activities in April 2004, free-product was noted in MW-8. The passive skimmer from MW-7 was moved to MW-8 to remove the free product.



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## Ground Water Depth & Dissolved Oxygen Field Log

Project: Oakland truck stop

Date: 7/2/04

Field Personnel: KLCT

Page: 1 of 1

Well I.D.	Time	Casing Elevation	Depth To Water	Ground Water Elevation	Actual Depth TOC	Screened Depth	Dissolved Oxygen		
							MG/L	%	°C
MW-1	1144	10.34	3.55	6.79	17.71				
<del>3N</del>	—	—	—	—	—	—	—	—	
3N	1132	11.67	4.90	6.77	11.61				
4	1141	10.46	4.55	5.91	19.91				
5	1201	10.24	4.00	6.24	14.52				
6	1136	10.62	4.21	6.41	14.54				
7	1138	11.69	6.31	5.38	18.91				
8	1151	10.06	4.60	5.46	18.63				
9	1148	10.03	3.70	6.33	19.91				
10	1100	11.07	2.78	8.29	11.13				
11	1103	9.64	5.80	3.84	11.75				

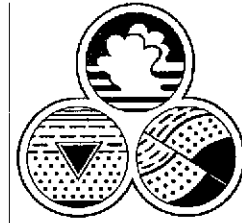
Notes: MW8 FREEPRODUCT AT 4.55  
D.T.W. AT 4.60

6.35

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 7/21/04
Pre-Purge DTW: 3.55	Time: 1144	Well I.D.: MW-1	
Post-Purge DTW: 14.94	Time: 1358		
Total Depth of Well: 17.71	Well Volume: 2.26	Casing Diameter: Gal./Ft.: 0.01074	0.5" 2" 4" 6" 0.16 0.65 1.47
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 LITER	
Sample I.D.: MW-1 /07-21-04		Analysis: TPH-G,D /BTEX/MTBE/5 FUEL OXY'S/ 1,2-DCA/EDB	

Stabilization Data

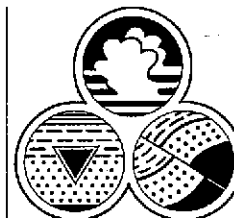
Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm X 100	Color/Turbidity	Notes
1348	0	6.84	26.5	194.8 $\mu$ S	cloudy	slight odor
1351	2.5	6.73	23.4	188.1 $\mu$ S	"	"
1354	5.0	6.64	22.5	191.1 $\mu$ S	"	"
1357	7.0	6.62	22.1	191.3 $\mu$ S	"	"
- Drew down to (14.94) waiting for recharge to sample.						
- DTW at (9.19) at time of sample						

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1500	Dissolved O <sub>2</sub> :	C
ICM	Hydac	Oakton	% mg/L

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## Monitoring Well Field Log

### Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 7/21/04
Pre-Purge DTW: 4.90	Time: 1132	Well I.D.: MW-3N	
Post-Purge DTW: 10.35	Time: 1210		
Total Depth of Well: 11.61	Well Volume: 1.07	Casing Diameter: Gal./Ft.:	0.5" 2" 4" 6" 0.01074 0.16 0.65 1.47
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 LITER	
Sample I.D.: MW-3N /07-21-04		Analysis: TPH-G,D /BTEX/MTBE/5 FUEL OXY'S/ 1,2-DCA/EDB	

### Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm X 100	Color/Turbidity	Notes
1205	0	6.30	24.9	104.1 <sup>us</sup>	clear	Strong odor
1207	1	6.30	24.4	104.7 <sup>us</sup>	"	"
1208	2	6.38	24.1	105.0 <sup>us</sup>	cloudy	"
1209	3.25	6.48	23.7	105.4 <sup>us</sup>	"	"
- Drew down to (10.35) waiting for recharge to sample.						
- DTW at (8.45) at time of sample						

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1311	Dissolved O <sub>2</sub> :	C
ICM	Hydac	Oakton	% mg/L

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## Monitoring Well Field Log

### Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 7/21/04
Pre-Purge DTW: 4.55	Time: 1141	Well I.D.: MW-4	
Post-Purge DTW: 15.27	Time: 1315		
Total Depth of Well: 19.91	Well Volume: 2.45	Casing Diameter: Gal./Ft.:	0.5" 2" 4" 6" 0.01074 0.16 0.65 1.47
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 LITER	
Sample I.D.: MW-4 /07-21-04		Analysis: TPH-G,D /BTEX/MTBE/5 FUEL OXY'S/ 1,2-DCA/EDB	

### Stabilization Data

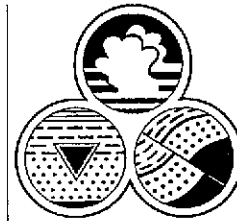
Time	Volume (gallons)	pH	Temp.	Cond μS/cm X 100	Color/ Turbidity	Notes
1306	0	6.52	26.2	126.5 <sup>65</sup>	clear	odor
1308	2.5	6.51	25.2	127.3 <sup>65</sup>	clear	"
1310	5.0	6.44	23.2	133.1 <sup>65</sup>	"	"
1314	7.5	6.40	21.6	139.3 <sup>65</sup>	"	"
- Drew down to (15.27) waiting for recharge to sample.						
- DTW at (8.52) at time of sample						

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1422	Dissolved O <sub>2</sub> :	C
ICM	Hydac	Oakton	% mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 7/21/04
Pre-Purge DTW: 4.00	Time: 1201	Well I.D.: MW-5	
Post-Purge DTW: 4.03	Time: 1240		
Total Depth of Well: 14.52	Well Volume: 1.68	Casing Diameter: Gal./Ft.:	0.5" 2" 4" 6" 0.01074 0.16 0.65 1.47
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 LITER	
Sample I.D.: MW-5 /07-21-04		Analysis: TPH-G,D /BTEX/MTBE/5 FUEL OXY'S/ 1,2-DCA/EDB	

Stabilization Data

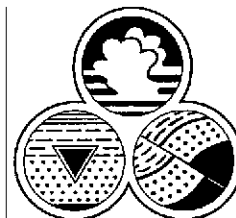
Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1233	0	6.57	26.4	107.2 <sup>u3</sup>	clear	odor
1235	2	6.55	25.3	112.7 <sup>u3</sup>	semi cloudy	"
1237	4	6.56	25.4	108.0 <sup>u3</sup>	cloudy	"
1239	5.25	6.58	25.8	106.2 <sup>u3</sup>	"	"

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1241	Dissolved O <sub>2</sub> :	C
ICM	Hydac	Oakton	% mg/L

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## Monitoring Well Field Log

### Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 7/21/04
Pre-Purge DTW: 4.21	Time: 11:36	Well I.D.: MW-6	
Post-Purge DTW: 4.24	Time: 12:21		
Total Depth of Well: 14.54	Well Volume: 1.65	Casing Diameter: Gal./Ft.: 0.01074	0.5" 2" 4" 6" 0.16 0.65 1.47
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 LITER	
Sample I.D.: MW-6 /07-21-04		Analysis: TPH-G,D /BTEX/MTBE/5 FUEL OXY'S/ 1,2-DCA/EDB	

### Stabilization Data

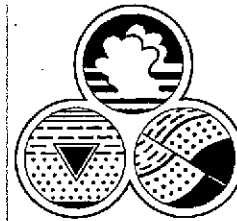
Time	Volume (gallons)	pH	Temp.	Cond μS/cm X 100	Color/ Turbidity	Notes
1218	0	6.59	26.7	108.5 <sup>us</sup>	cloudy	No odor
1220	2	6.57	27.2	108.6 <sup>us</sup>	"	"
1222	4	6.56	27.4	108.8 <sup>us</sup>	"	"
1223	5	6.55	27.8	106.2 <sup>us</sup>	"	"

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1225	Dissolved O <sub>2</sub> :	C
ICM	Hydac	Oakton	% mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 7/21/04
Pre-Purge DTW: 6.31	Time: 1:38	Well I.D.: MW- 7	
Post-Purge DTW: 10.20	Time: 1:30		
Total Depth of Well: 18.91	Well Volume: 2.01	Casing Diameter: Gal./Ft.:	0.5" 2" 4" 6" 0.01074 0.16 0.65 1.47
Sampler(s): KL/CT	Sample Containers: 3 VOAS & 1 LITER		
Sample I.D.: MW- 7 /07-21-04	Analysis: TPH-G,D /BTEX/MTBE/5 FUEL OXY'S/ 1,2-DCA/EDB		

Stabilization Data

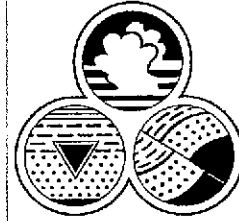
Time	Volume (gallons)	pH	Temp.	Cond μS/cm X 100	Color/ Turbidity	Notes
1254	0	6.50	24.0	104.9 <sup>us</sup>	clear	SPOTTY SHEEN
1256	2	6.52	24.6	106.7 <sup>us</sup>	cloudy	"
1258	4	6.52	23.1	103.5 <sup>us</sup>	"	"
1300	6.25	6.53	22.8	104.2 <sup>us</sup>	"	"
- Drew down to (10.20) waiting for recharge to sample.						
- DTW at (6.31) at time of sample						

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1413	Dissolved O <sub>2</sub> :	C
ICM	Hydac	Oakton	% mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 7/21/04
Pre-Purge DTW: 4.60	Time: 1151	Well I.D.: MW- 8	
Post-Purge DTW:	Time:	Casing Diameter: 0.5" 2" 4" 6" Gal./Ft.: 0.01074 0.16 0.65 1.47	
Total Depth of Well: 18.63	Well Volume: 2.24	Sampler(s): KL/CT	
Sample I.D.: MW- 8 /07-21-04		Sample Containers: 3 VOAS & 1 LITER	
		Analysis: TPH-G,D /BTEX/MTBE/S FUEL OXY'S/ 1,2-DCA/EDB	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm X 100	Color/Turbidity	Notes
						- Found free product at (4.55)
						- DTW at (4.60)
						- Bailer showed about <del>1</del> 1/4" of product, bailed off 5 gal. until product was gone.

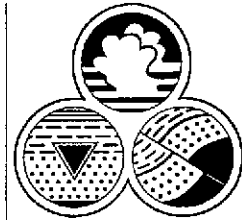
Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	No sample		Dissolved O <sub>2</sub> : C
ICM	Hydac	Oakton	% mg/L



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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 7/21/04
Pre-Purge DTW: 3.70	Time: 1148	Well I.D.: MW-9	
Post-Purge DTW: 15.03	Time: 1339		
Total Depth of Well: 19.91	Well Volume: 2.59	Casing Diameter: Gal./Ft.:	0.5" 2" 4" 6" 0.01074 0.16 0.65 1.47
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 LITER	
Sample I.D.: MW-9 /07-21-04		Analysis: TPH-G,D /BTEX/MTBE/5 FUEL OXY'S/ 1,2-DCA/EDB	

Stabilization Data

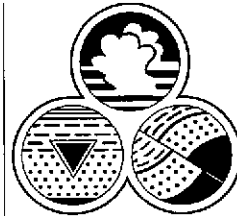
Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm X 100	Color/Turbidity	Notes
1331	0	6.42	25.1	163.6 <sup>us</sup>	clear	No odor
1333	3	6.46	24.8	164.2 <sup>us</sup>	"	"
1336	6	6.44	23.0	163.6 <sup>us</sup>	"	"
1338	8	6.47	22.2	162.3 <sup>us</sup>	"	"
- Drew down to (15.03) waiting for recharge to sample						
- DTW at (5.22) at time of sample						

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1440	Dissolved O <sub>2</sub> :	C
ICM	Hydac	Oakton	% mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 7/21/04
Pre-Purge DTW: 2.78	Time: 1100	Well I.D.: MW-10	
Post-Purge DTW: 3.04	Time: 1112		
Total Depth of Well: 11.13	Well Volume: 1.33	Casing Diameter: Gal./Ft.: 0.01074	0.5" 2" 4" 6" 0.16 0.65 1.47
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 LITER	
Sample I.D.: MW-10 /07-21-04		Analysis: TPH-G,D /BTEX/MTBE/5 FUEL OXY'S/ 1,2-DCA/EDB	

Stabilization Data

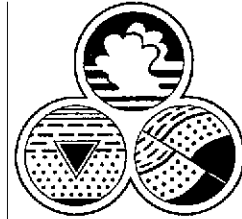
Time	Volume (gallons)	pH	Temp.	Cond $\mu$ S/cm X100	Color/Turbidity	Notes
1107	0	6.12	25.8	108.5 <sup>us</sup>	clear	no odor
1109	2	6.47	24.6	102.1 <sup>us</sup>	cloudy/clear	"
1110	3	6.60	24.8	99.9 <sup>us</sup>	"	"
1111	4.25	6.69	24.8	98.7 <sup>us</sup>	"	"

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1113	Dissolved O <sub>2</sub> :	C
ICM	Hydac	Oakton	% mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 7/21/04
Pre-Purge DTW: 5.80	Time: 1103	Well I.D.: MW-11	
Post-Purge DTW: 11.25	Time: 1125		
Total Depth of Well: 11.75	Well Volume: .95	Casing Diameter: Gal./Ft.:	0.5" 2" 4" 6" 0.01074 0.16 0.65 1.47
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 LITER	
Sample I.D.: MW-11 /07-21-04		Analysis: TPH-G,D /BTEX/MTBE/S FUEL OXY'S/ 1,2-DCA/EDB	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond μS/cm X 100	Color/ Turbidity	Notes
1121	0	6.55	24.5	99.8 <sup>us</sup>	clear	slight odor
1122	1	6.62	23.4	100.3 <sup>us</sup>	cloudy	"
1123	2	6.74	22.9	102.7 <sup>us</sup>	Gray/cloudy	"
	3					
- Drew down to (11.25) waiting for recharge to sample						
- DTW at (8.10) at time of sample						

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1231	Dissolved O <sub>2</sub> :	C
ICM	Hydac	Oakton	% mg/L

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## ANALYTICAL RESULTS\*

**CTEL Project No:** CT214-0407162  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Bob Marty

**Phone:** (209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID: T060  
**Project Name:** Oakland Truck Stop

**Date Sampled:** 07/21/04 @ 15:00 p.m.  
**Date Received:** 07/23/04 @ 09:00 am  
**Date Analyzed:** 07/23/04 - 07/26/04

**Matrix:** Water

Laboratory ID:	0407-162-1	0407-162-2	0407-162-3	Method	Units:	Detection Limit
Client Sample ID:	MW1	MW3N	MW4			
Dilution	1	1	10			
TPH - Gasoline	900	400	27000	EPA 8015M	ug/L	50
TPH - Diesel	ND	ND	ND<0.05	EPA 8015M	mg/L	0.05
VOC, 8260B						
Dilution	1-5	1-5	1-100			
Methyl-tert-butyl-ether(MtBE)	620	370	5300	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND<10	ND<10	150000	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND<1	ND<1	ND<1	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND<1	ND<1	ND<1	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	ND<1	4.4	3.6	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND<0.5	ND<0.5	ND<0.5	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND<0.5	ND<0.5	ND<0.5	SW846 8260B	ug/L	0.5
Benzene	ND<0.5	ND<0.5	ND<0.5	SW846 8260B	ug/L	0.5
Toluene	ND<0.5	ND<0.5	ND<0.5	SW846 8260B	ug/L	0.5
Ethylbenzene	ND<0.5	ND<0.5	ND<0.5	SW846 8260B	ug/L	0.5
m,p-Xylene	ND<0.6	ND<0.6	ND<0.6	SW846 8260B	ug/L	0.6
o-Xylene	ND<0.6	ND<0.6	ND<0.6	SW846 8260B	ug/L	0.6

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	100	105	126	70-130
1,2 Dichloroethaned4	126	100	121	70-130
Toluene-d8	74	75	91	70-130
Bromofluorobenzene	85	83	95	70-130

**CTEL Project No:** CT214-0407162  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Attention:** Mr. Bob Marty

**Project ID:** Global ID: T060  
**Project Name:** Oakland Truck Stop

**Date Sampled:** 07/21/04 @ 12:41 p.m.  
**Date Received:** 07/23/04 @ 09:00 am  
**Date Analyzed:** 07/23/04 - 07/26/04

**Matrix:** Water

Laboratory ID:	0407-162-4	0407-162-5	0407-162-6	Method	Units:	Detection Limit
Client Sample ID:	MW5	MW6	MW7			
Dilution	1	1	10-100			
TPH - Gasoline	2000	200	120000	EPA 8015M	ug/L	50
TPH - Diesel	ND	ND	14	EPA 8015M	mg/L	0.05
VOC, 8260B						
Dilution	1-10	1-10	1-500			
Methyl-tert-butyl-ether(MtBE)	320	140	71000	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	15000	15000	ND<10	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND<1	ND<1	ND<1	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND<1	ND<1	ND<1	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	ND<1	ND<1	370	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND<0.5	ND<0.5	300	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND<0.5	ND<0.5	ND<0.5	SW846 8260B	ug/L	0.5
Benzene	2.2	ND<0.5	11000	SW846 8260B	ug/L	0.5
Toluene	ND<0.5	ND<0.5	730	SW846 8260B	ug/L	0.5
Ethylbenzene	ND<0.5	ND<0.5	1000	SW846 8260B	ug/L	0.5
m,p-Xylene	ND<0.6	ND<0.6	930	SW846 8260B	ug/L	0.6
o-Xylene	ND<0.6	ND<0.6	320	SW846 8260B	ug/L	0.6

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	123	120	93	70-130
1,2 Dichloroethaned4	127	128	116	70-130
Toluene-d8	89	70	100	70-130
Bromofluorobenzene	91	91	112	70-130

**CTEL Project No:** CT214-0407162  
**Client Name:** Advanced Geo Environmental, Inc.  
 837 Shaw Road  
 Stockton, CA 95215  
**Attention:** Mr. Bob Marty

**Phone:**(209) 467-1006  
**Fax:** (209) 467-1118

**Project ID:** Global ID: T060  
**Project Name:** Oakland Truck Stop

**Date Sampled:** 07/21/04 @ 14:40 p.m.  
**Date Received:** 07/23/04 @ 09:00 am  
**Date Analyzed:** 07/23/04 - 07/26/04

**Matrix:** Water

<b>Laboratory ID:</b>	0407-162-7	0407-162-8	0407-162-9	<b>Method</b>	<b>Units:</b>	<b>Detection Limit</b>
<b>Client Sample ID:</b>	MW9	MW10	MW11			
<b>Dilution</b>	1	1	1			
<b>TPH - Gasoline</b>	ND	ND	ND	EPA 8015M	ug/L	50
<b>TPH - Diesel</b>	ND	ND	ND	EPA 8015M	mg/L	0.05
<b>VOC, 8260B</b>						
<b>Dilution</b>	1	1	1			
Methyl-tert-butyl-ether(MtBE)	24	ND	ND	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	ND	ND	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND	ND	ND	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	ND	ND	ND	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND	ND	ND	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND	ND	ND	SW846 8260B	ug/L	0.5
Benzene	ND	ND	ND	SW846 8260B	ug/L	0.5
Toluene	ND	ND	ND	SW846 8260B	ug/L	0.5
Ethylbenzene	ND	ND	ND	SW846 8260B	ug/L	0.5
m,p-Xylene	ND	ND	ND	SW846 8260B	ug/L	0.6
o-Xylene	ND	ND	ND	SW846 8260B	ug/L	0.6

ND = Not Detected at the indicated Detection Limit

<b>SURROGATE SPIKE</b>	<b>% SURROGATE RECOVERY</b>			<b>Control Limit</b>
Dibromofluoromethane	70	98	98	70-130
1,2 Dichloroethaned4	71	123	117	70-130
Toluene-d8	101	94	96	70-130
Bromofluorobenzene	93	108	103	70-130



Greg Tejrjian  
 Laboratory Director

\*The results are base upon the sample received.

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8015M

Matrix: Water

Date Analyzed: 7/23/04

Units: ug/L

Perimeters	LSC	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
TPH - Gasoline	1023	1046	1000	102	105	60-140	3
TPH - Diesel	1026	1038	1000	103	104	60-140	1

Perimeters	Blank	Limits	RPD
TPH - Gasoline	0	60-140	
TPH - Diesel	0	60-140	

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue. Paramount, CA 90723-3146

Telephone: (562) 272-2700

Fax: (562) 272-2789

## QA/QC Report

Method: 8260B

Matrix: Water

Date Analyzed: 7/23/04

Units: ug/L

Perimeters	LSC	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
1,1-Dichloroethene	52	54	50	104	108	60-140	4
Benzene	51	50	50	102	100	60-140	2
Trichloroethene	56	54	50	112	108	60-140	4
Toluene	54	54	50	108	108	60-140	0
Chlorobenzene	54	52	50	108	104	60-140	4
m,p-Xylenes	129	119	100	129	119	60-140	10

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Perimeters	Blank	Limits	RPD
1,1-Dichloroethene	0	70-130	
Benzene	0	70-130	
Trichloroethene	0	70-130	
Toluene	0	70-130	
Chlorobenzene	0	70-130	
m,p-Xylenes	0	70-130	





Advanced  
GeoEnvironmental, Inc.

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 7/21/04 Page 1 of 2

07-162

Client Reed Rinehart Project Manager Bob Marty Tests Required

Phone Number (209) 467-1006

Samplers: (Signature) [Signature]

Project Name Oakland truck stop

Invoice:  
AGE   
Client

TPH-GD  
BTEXD  
SIXE  
LOXYS  
12 DCA  
VEDIB

Sample Number	Location Description	Date	Time	Sample Type			Solid	No. of Conts.	Notes			
				Water		Air						
				Comp.	Grab.							
W1/072104	MW 1	7/21/04	1500		X		4	X	X	X	X	
W3N/	MW 3N		1311		X		4	X	X	X	X	
W4/	MW 4		1422		X		4	X	X	X	X	
W5/	MW 5		1241		X		4	X	X	X	X	
W6/	MW 6		1225		X		4	X	X	X	X	
W7/	MW 7		1413		X		4	X	X	X	X	

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date/Time 7/22/04/1630

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date/Time

Relinquished by: (Signature) Received by Mobile Laboratory for field analysis: (Signature) S.T.A.T. Date/Time

Dispatched by: (Signature) Date/Time Received for Laboratory by: R. [Signature] Date/Time 7-23-04/9:00

Method of Shipment: Cal overnight

Special Instructions: "NEED EDF"

Laboratory Name: Cal Tech

I hereby authorize the performance of the above indicated work.

[Signature]



Advanced  
GeoEnvironmental, Inc.

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 7/21/04 Page 2 of 2

07-162

Client <u>Reed Rinehart</u>	Project Manager <u>Bob Marty</u>	Tests Required
	Phone Number <u>(209) 467-1006</u>	Invoice: AGE <input checked="" type="checkbox"/> Client <input type="checkbox"/>
	Samplers: (Signature) <u>[Signature]</u>	
Project Name <u>Oakland truck stop</u>	TPH, G/D METALS 12 Fuel Oxygens 4 PCBs	

Sample Number	Location Description	Date	Time	Sample Type			Solid	No. of Conts.	Notes
				Water		Air			
				Comp.	Grab.				
<u>W9/072104</u>	<u>MW 9</u>	<u>7/21/04</u>	<u>1440</u>		<u>X</u>			<u>4</u> <u>XXXX</u>	
<u>W10/ ↓</u>	<u>MW 10</u>	<u>↓</u>	<u>1113</u>		<u>X</u>			<u>4</u> <u>XXXX</u>	
<u>W11/ ↓</u>	<u>MW 11</u>	<u>↓</u>	<u>1231</u>		<u>X</u>			<u>4</u> <u>XXXX</u>	

Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature)	Date/Time <u>7/22/04/1630</u>
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature) <u>S.T.A.T.</u>	Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: <u>[Signature]</u> Laboratory Name <u>Cal Tech</u>
Method of Shipment: <u>Cal overnight</u>	Special Instructions: <u>"NEED EDF"</u>	I hereby authorize the performance of the above indicated work. <u>[Signature]</u>