

ENVIRONMENTAL  
PROTECTION

97 FEB 32 AM 9: 36

February 18, 1997

Ms. Susan Hugo  
Alameda County Department of  
Environmental Health  
1131 Harbor Bay Parkway  
Alameda, CA 94502

RE: Quarterly Status Report  
Greyhound Terminal (Location No. 8934)  
Oakland, California

Dear Ms. Hugo:

On behalf of Greyhound Lines, Inc. (Greyhound), Parsons Engineering Science, Inc. (Parsons ES) is pleased to present the January Quarterly Status Report for the Greyhound terminal in Oakland, California. The Quarterly Status Report provides the information specified in "Appendix A" of the "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" (August 1990). Greyhound has reviewed and approved the enclosed report, and agrees with the conclusions and recommendations provided in the report.

Monitoring activities and groundwater sampling were conducted on January 16, 1997. Table 1 summarizes fluid levels and other pertinent information. Three groundwater samples were collected and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) (EPA Method 8020), total diesel petroleum hydrocarbons (TPH-D, Modified EPA Method 8015), and total gasoline petroleum hydrocarbons (TPH-G, Modified EPA Method 8015). Monitoring well locations are shown in Figure 1 of the Quarterly Status Report. Analytical results are summarized in Table 2.

During the January monitoring visit, no measurable free product was observed in any of the monitoring or recovery wells onsite.

The next groundwater sampling event will be conducted in April 1997. The next quarterly status report will be prepared and submitted to your department on or before April 15, 1997. In the interim, Greyhound requests that Alameda County review the Preliminary Risk Evaluation Report, originally submitted in November of 1993 to support a no further action decision on this site.

**PARSONS ENGINEERING SCIENCE, INC.**

Ms. Susan Hugo  
Alameda County Department of  
Environmental Health  
February 18, 1997  
Page 2

If you have any questions or require additional information, please call us at  
(315) 451-9560.

Sincerely,

PARSONS ENGINEERING SCIENCE, INC.



Christopher R. Torell  
Project Manager



David L. Chaffin, R.G.  
California Registered Geologist  
(No. 4885)

CRT/DLC/rlc

Enclosure

cc: L. Hernandez, GLI, Dallas, TX  
Kevin Graves, Regional Water Quality Control Board

**JANUARY 1997  
QUARTERLY STATUS REPORT  
GREYHOUND TERMINAL  
OAKLAND, CALIFORNIA**

• **Site Background:**

A preliminary site investigation was completed by Engineering-Science, Inc. (ES) in January 1992. Five monitoring wells (ES-1 through ES-5 in Figure 1) were installed on site and sampled during the investigation. The Preliminary Site Investigation report was submitted to the Alameda County Department of Environmental Health (ACDEH) on January 27, 1992.

Based on the results of the preliminary investigation, a groundwater monitoring program was initiated by Greyhound in June 1992 to assess the impact of former UST operations on groundwater. The program includes monthly groundwater level measurements, quarterly groundwater sampling, and reporting.

Based on the presence of measurable thicknesses of free product discovered in four on site monitoring wells, Greyhound subsequently proposed the installation of an automated free product recovery system. Upon ACDEH approval in October 1992, Greyhound obtained the required permits and installed a recovery system on site during the week of November 9, 1992. A report detailing recovery system installation was submitted to ACDEH on December 18, 1992. The recovery system was placed in operation during the week of January 4, 1993 after discharge permit conditions were finalized with the East Bay Municipal Utility District (EBMUD).

In a letter to Greyhound dated October 23, 1992, ACDEH requested that Greyhound provide documentation regarding the underground fuel storage tank system (UST) removal, including disposal documentation. Greyhound subsequently prepared a Tank Closure Documentation Report for the facility. The report was submitted to ACDEH on December 15, 1992.

In July 1993, Greyhound implemented a Supplemental Site Assessment at the facility to define the full extent of contamination both on and off site. Six monitoring wells (ES-6 through ES-11 in Figure 1) were installed and sampled during the investigation. Results of the Supplemental Site Assessment indicated that the residual soil and groundwater contamination is limited to the former tank pit area on site. Greyhound presented these results to ACDEH in a meeting on September 1, 1993. At that time, ACDEH indicated that a risk assessment could be prepared to support "alternative points of compliance" or site-specific cleanup levels for this site. Greyhound submitted a Preliminary Risk Evaluation Report to ACDEH in October 1993. A Supplemental Site Assessment Report was submitted in November 1993.

During October 1995, the scope of the quarterly groundwater sampling program was reduced to consist of collecting and analyzing samples from three monitoring wells (ES-3, ES-4, and ES-6). Annual sampling of ES-7, ES-8, and ES-11 was also agreed to by both parties at that time. The reduction was discussed during an October 13, 1995 meeting between Greyhound and ACDEH and confirmed in an October 31, 1995 letter from Greyhound to ACDEH.

**JANUARY 1997  
QUARTERLY STATUS REPORT  
(CONTINUED)**

- **Water level measurements from most recent sampling event:**

Monitoring well data obtained on January 16, 1997 are presented in Table 1. Groundwater elevations determined from the water level measurements are shown in Figure 2. The elevations indicate that the groundwater flow direction across the site is generally to the southeast.

- **Water level measurements from previous monitoring visits:**

Monitoring well data obtained during prior quarterly sampling events is presented in Attachment B. Free product thicknesses have been eliminated in the four onsite recovery wells (ES-1, ES-2, ES-5, and BC-1) since the product recovery system was activated in January 1993.

- **Analytical results from most recent sampling event:**

Analytical results from the groundwater samples collected in January 1997 are summarized in Table 2. The samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method 8020, for total diesel petroleum hydrocarbons (TPH-D) by Modified EPA Method 8015, and for total gasoline petroleum hydrocarbons (TPH-G) by Modified EPA Method 8015. Laboratory reports including chain-of-custody documentation, are included in Attachment A.

BTEX compounds were only detected in one of the three samples (ES-4). Benzene (4.6 µg/l) and xylenes (0.56 µg/l) were detected in the sample. TPH-G was also detected in the sample at a concentration of 0.059 mg/L, and in ES-3 at a concentration of 0.051 mg/L. TPH-D was not detected in any of the three samples.

- **Analytical results from previous sampling events:**

A summary of the analytical results from previous groundwater sampling events is presented in Attachment C.

- **Site map delineating contamination contours for soil and groundwater based on recent data:**

Figure 3 shows the analytical results from the most recent groundwater sampling event.

Figure 4 shows the analytical results from soil samples collected during the preliminary site investigation (November 1991) and the supplemental site assessment (July 1993). The figure indicates that soil contamination is limited to the area near sample locations ES-1, ES-2, and ES-5.

**JANUARY 1997  
QUARTERLY STATUS REPORT  
(CONTINUED)**

- **Estimates of the quantity of contamination remaining in soil and groundwater, and time for completing remediation:**

Greyhound has not prepared an estimate of the remaining volume of residual soil contamination, based on the recommendation presented in the Supplemental Site Assessment Report that no soil remediation be conducted at the site.

- **Method of cleanup proposed or implemented to date:**

In October 1992, Greyhound proposed a free product recovery system to remove free product discovered in four on site wells. A hydrocarbon recovery system was installed in November 1992 after receiving approval from Ms. Susan Hugo (ACDEH). The recovery system was activated during the week of January 4, 1993.

- **Times and dates equipment was not operating, cause of shutdown, and a corrective action plan to insure similar shutdowns do not reoccur:**

October 6 to October 21, 1993: System shutdown due to an air compressor malfunction.

November and December 1995: System shutdown to monitor hydrocarbon thicknesses.

March and April 1996 (4 weeks maximum): System shutdown due to an air compressor malfunction.

June and July 1996 (4 weeks maximum): System shutdown due to an electrical power supply problem.

The system is inspected monthly during monitoring visits by Parsons ES personnel.

- **Method and location of disposal of the released hazardous substance and any contaminated soil, groundwater, or surface water:**

To date, approximately 1,015 gallons of free product and contaminated groundwater have been recovered and properly disposed off site by Safety Kleen, Inc. and Evergreen Vacuum Services, State of California-certified waste haulers. No additional product has been recovered since the September 1994 monitoring period. In addition, 82,610 gallons of carbon-treated groundwater have been processed through the recovery system on site and discharged to the sanitary sewer under a permit issued by EBMUD.

**JANUARY 1997**  
**QUARTERLY STATUS REPORT**  
**(CONTINUED)**

- **Manifest required for transport of hazardous substances:**

Previously received disposal/transport manifests for diesel fuel and contaminated groundwater recovered from the site were included in Appendix A of the January 1993 Quarterly Status Report. Future manifests will be included in future quarterly status reports.

- **Proposed continuing or next phase of investigation:**

In November 1993, based on the results of the Supplemental Site Assessment and Preliminary Risk Evaluation, Greyhound proposed: (1) to continue free product recovery at the site; (2) to continue the groundwater monitoring program, including monthly water level measurements, quarterly groundwater sampling and analysis, and reporting; and (3) that site-specific cleanup levels be established for the site based on the non-attainment area for groundwater contamination.

During a second meeting between ACDEH, Greyhound and the Regional Water Quality Control Board (RWQCB) in October 1995, a more streamlined groundwater monitoring program was developed. Based on anticipated changes to existing regulations, Greyhound agreed to continue with the monitoring and recovery program until a no-further-action scenario without deed stipulations is achievable.

The next quarterly status report will be prepared and submitted to ACDEH on or before April 15, 1997. In the interim, Greyhound requests a review of the Preliminary Risk Evaluation originally submitted in November 1993. The data gathered since the risk evaluation was submitted indicate it may now be possible to achieve a no-further-action decision without deed restriction.

- **Time schedules for the completion of the investigation of the site and remediation:**

Since no measurable product continues to be detected in the recovery wells, Greyhound requests that a no-further-action scenario be considered based on the risk assessment previously submitted to ACDEH and analytical results obtained from the monitoring program.

- **Tank owner commitment letter:**

The cover letter submitted with this report is intended to serve as the tank owner commitment letter.

**TABLE 1**  
**MONITORING WELL DATA SUMMARY**  
**GREYHOUND TERMINAL, OAKLAND, CALIFORNIA**  
**January 16, 1997**

Location	Elevation of T.O.C. <sup>(1)</sup> (Ft.)	Depth to Groundwater (Ft.)	Groundwater Elevation <sup>(2)</sup> (Ft.)	Product Layer Thickness (Ft.)
ES-1 <sup>(3)</sup>	96.64	16.79	79.85	0
ES-2 <sup>(3)</sup>	96.44	17.57	78.87	0
ES-3	96.96	17.72	79.24	0
ES-4	95.70	16.92	78.78	0
ES-5 <sup>(3)</sup>	95.85	16.68	79.17	0
ES-6	97.84	20.15	77.69	0
ES-7	96.40	18.19	78.21	0
ES-8	96.64	17.22	79.42	0
ES-9	95.78	15.99	79.79	0
ES-10	95.24	15.49	79.75	0
ES-11	95.92	17.10	78.82	0
BC-1 <sup>(3,4)</sup>	96.16	17.19	78.97	0
BC- <sup>(4)</sup>	96.32	16.40	79.92	0
BC-3 <sup>(4)</sup>	96.20	16.40	79.80	0

<sup>(1)</sup> Elevations of top of PVC casing measured with respect to on-site datum (97.50 feet, measured on steel grate for storm sewer near wash rack).

<sup>(2)</sup> Groundwater elevation (Elevation of T.O.C. - depth to groundwater).

<sup>(3)</sup> Recovery Wells.

<sup>(4)</sup> Approximate elevation - well casings not vertical.

BC = Wells constructed by Brown and Caldwell, Inc., during during earlier phases of investigation.

**TABLE 2**

**GROUNDWATER ANALYTICAL RESULTS  
GREYHOUND TERMINAL, OAKLAND, CALIFORNIA  
January 16, 1997**

Location	Date Collected	Parameter	Result	Detection Limit
ES-3	1/16/97	Benzene <sup>1</sup>	ND	0.5 ug/L
		Toluene <sup>1</sup>	ND	0.5 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.5 ug/L
		Xylenes (total) <sup>1</sup>	ND	0.5 ug/L
		TPH-D <sup>2</sup>	ND	0.05 mg/L
		TPH-G <sup>3</sup>	0.051	0.05 mg/L
ES-4	1/16/97	Benzene <sup>1</sup>	4.6	0.5 ug/L
		Toluene <sup>1</sup>	ND	0.5 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.5 ug/L
		Xylenes (total) <sup>1</sup>	0.56	0.5 ug/L
		TPH-D <sup>2</sup>	ND	0.05 mg/L
		TPH-G <sup>3</sup>	0.059	0.05 mg/L
ES-6	1/16/97	Benzene <sup>1</sup>	ND	0.5 ug/L
		Toluene <sup>1</sup>	ND	0.5 ug/L
		Ethylbenzene <sup>1</sup>	ND	0.5 ug/L
		Xylenes (total) <sup>1</sup>	ND	0.5 ug/L
		TPH-D <sup>2</sup>	ND	0.05 mg/L
		TPH-G <sup>3</sup>	ND	0.05 mg/L

**Notes:**

<sup>1</sup> Analyzed by EPA Method 8020. Concentrations in ug/l.

<sup>2</sup> Analyzed by DHS/LUFT Method Modified EPA 8015 for Diesel.  
Concentrations in mg/l.

<sup>3</sup> Analyzed by DHS/LUFT Method Modified EPA 8015 for Gasoline.  
Concentrations in mg/l.

ND - Not detected above the practical quantitation limit.



TABLE 3

**SOIL ANALYTICAL DATA SUMMARY  
GREYHOUND TERMINAL, OAKLAND, CALIFORNIA**

Location Sample Depth	Date	Benzene ug/kg	Toluene ug/kg	Ethylbenzene ug/kg	Xylenes ug/kg	Total BTEX <sup>1</sup> ug/kg	TPH-D <sup>2</sup> mg/kg	TPH-G <sup>3</sup> mg/kg
ES-1 (16-18)	11/91	ND	3,000	3,400	22,000	28,400	ND	NA
ES-2 (16-18)	11/91	ND	27,000	28,000	150,000	205,000	ND	NA
ES-3 (18-19)	11/91	ND	ND	ND	ND	ND	ND	NA
ES-4 (16-16.5)	11/91	ND	ND	ND	ND	ND	ND	NA
ES-5 (15-17)	11/91	ND	80	65	330	475	160	NA
ES-6 (15-16.5)	7/93	ND	ND	ND	ND	ND	ND	ND
ES-7 (20-21.5)	7/93	ND	ND	ND	ND	ND	ND	ND
ES-8 (20-21.5)	7/93	ND	ND	ND	ND	ND	ND	ND
ES-9 (15-16.5)	7/93	ND	ND	ND	ND	ND	ND	ND
ES-10 (20-21.5)	7/93	ND	ND	ND	ND	ND	ND	ND
ES-11 (20-21.5)	7/93	ND	ND	ND	ND	ND	ND	ND

NA - Not analyzed.

ND - Non-detect; sample analyzed but did not exceed Method Detection Limit.

<sup>1</sup> Total BTEX = analyzed by EPA Method 8020. Results reported in ug/kg.  
Refer to analytical laboratory reports for method detection limits.

<sup>2</sup> TPH-D = Total Petroleum Hydrocarbons (TPH) for Diesel by EPA Method 3510/8015.  
Results reported in mg/kg. Refer to analytical laboratory reports for method detection limits.

<sup>3</sup> TPH-G = Total Petroleum Hydrocarbons (TPH) for Gasoline by EPA Method 3510/8015.  
Results reported in mg/kg. Refer to analytical laboratory reports for method detection limits.

FIGURE 1

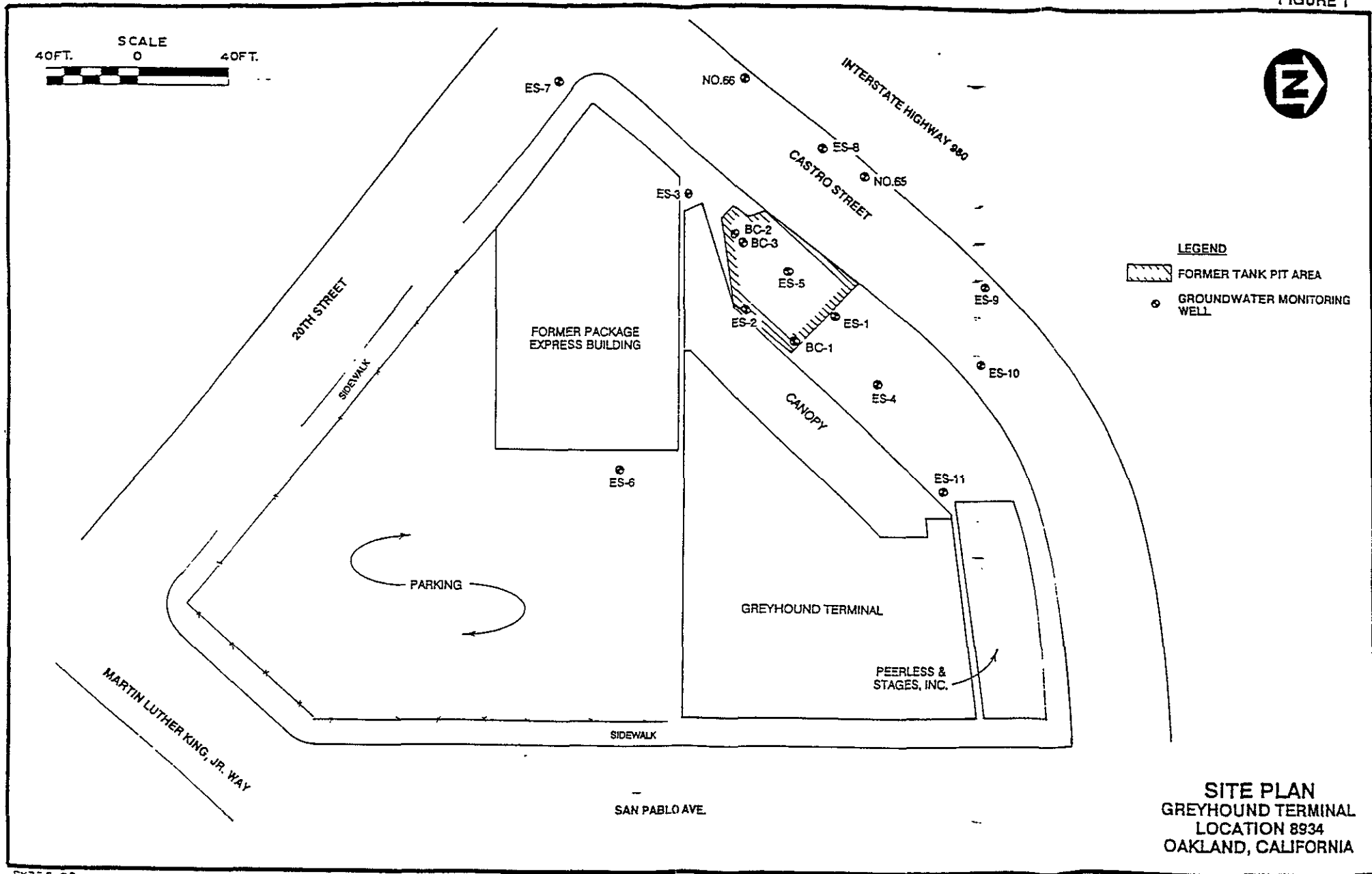


FIGURE 2

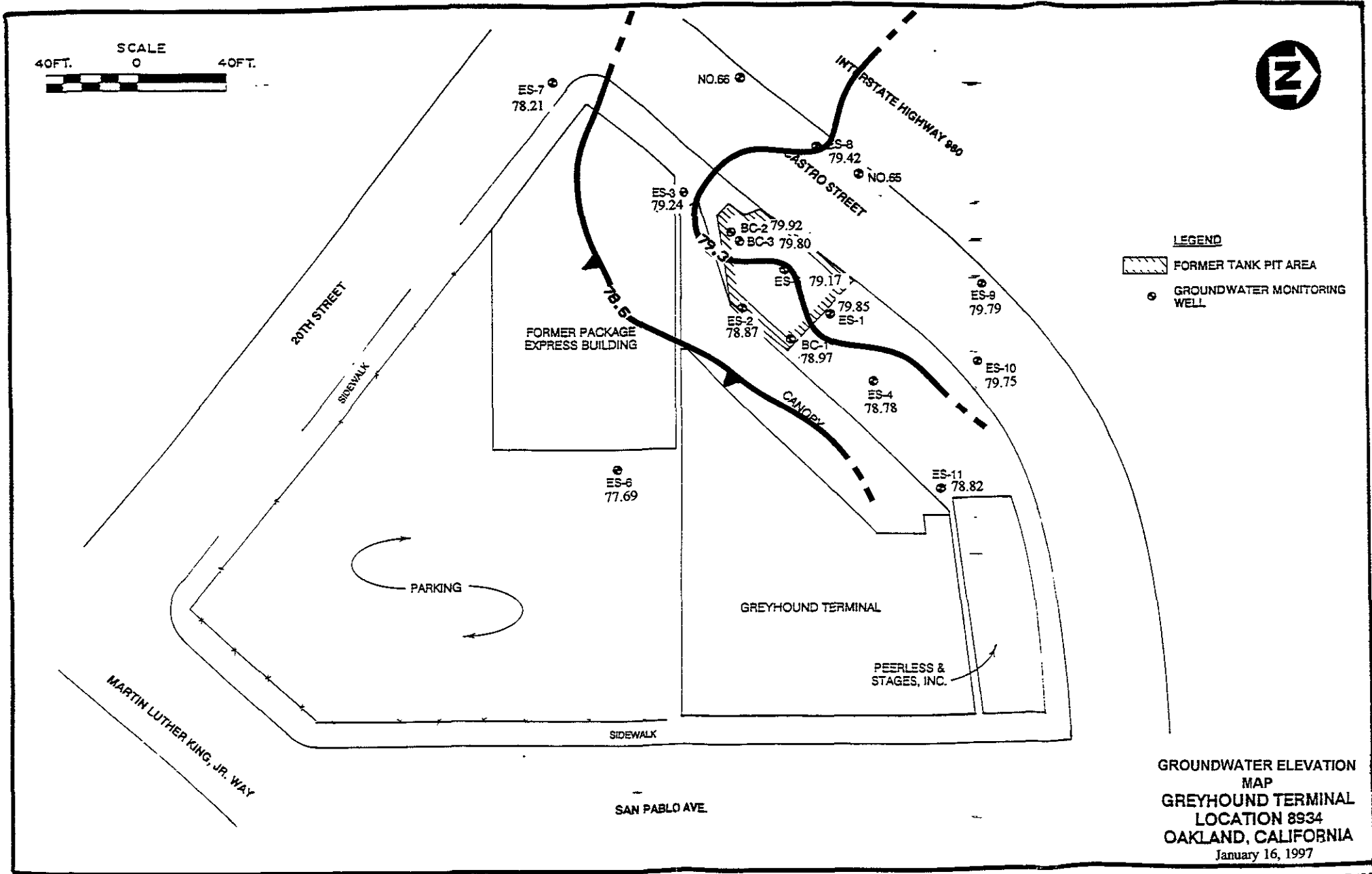
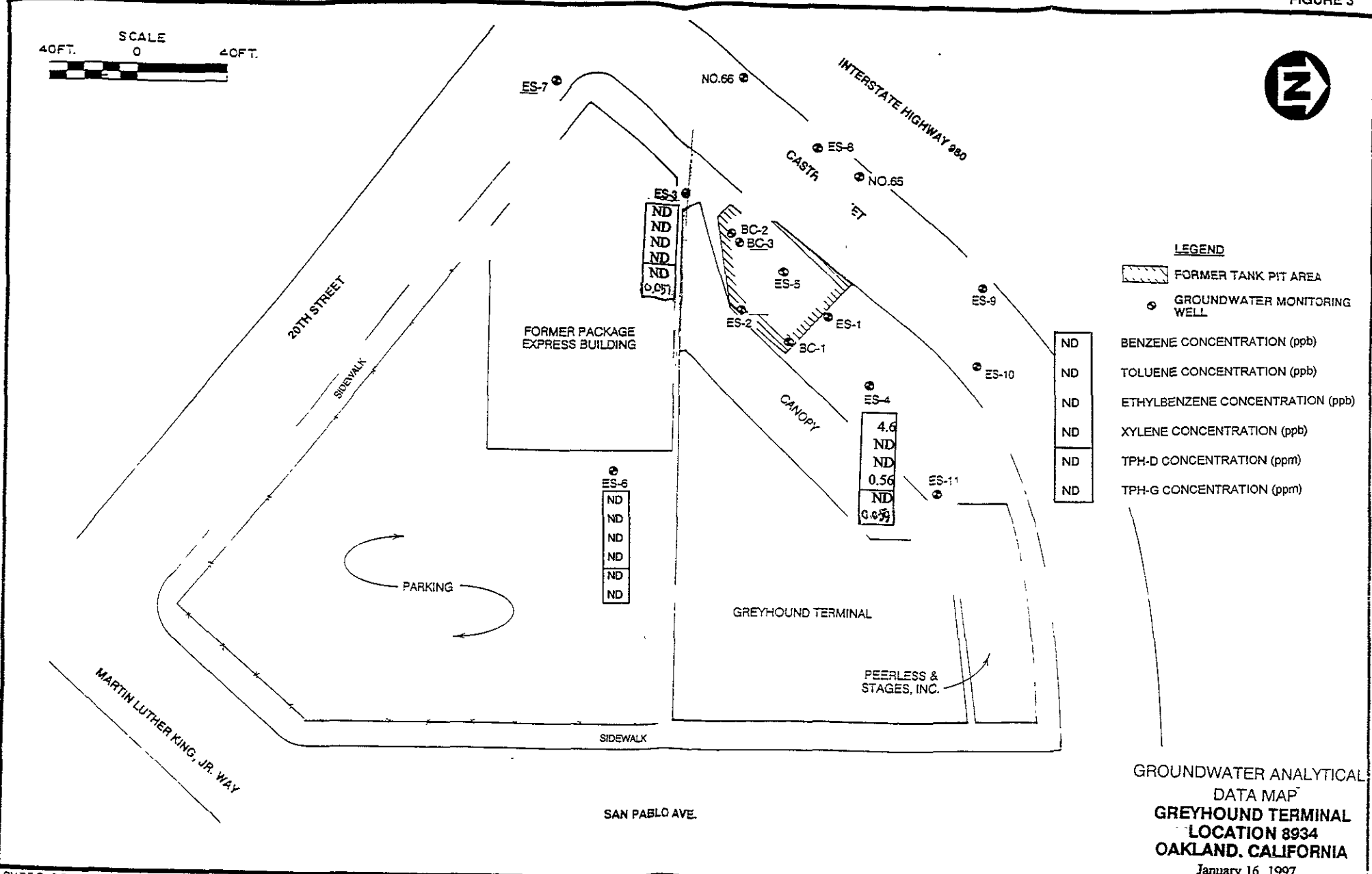
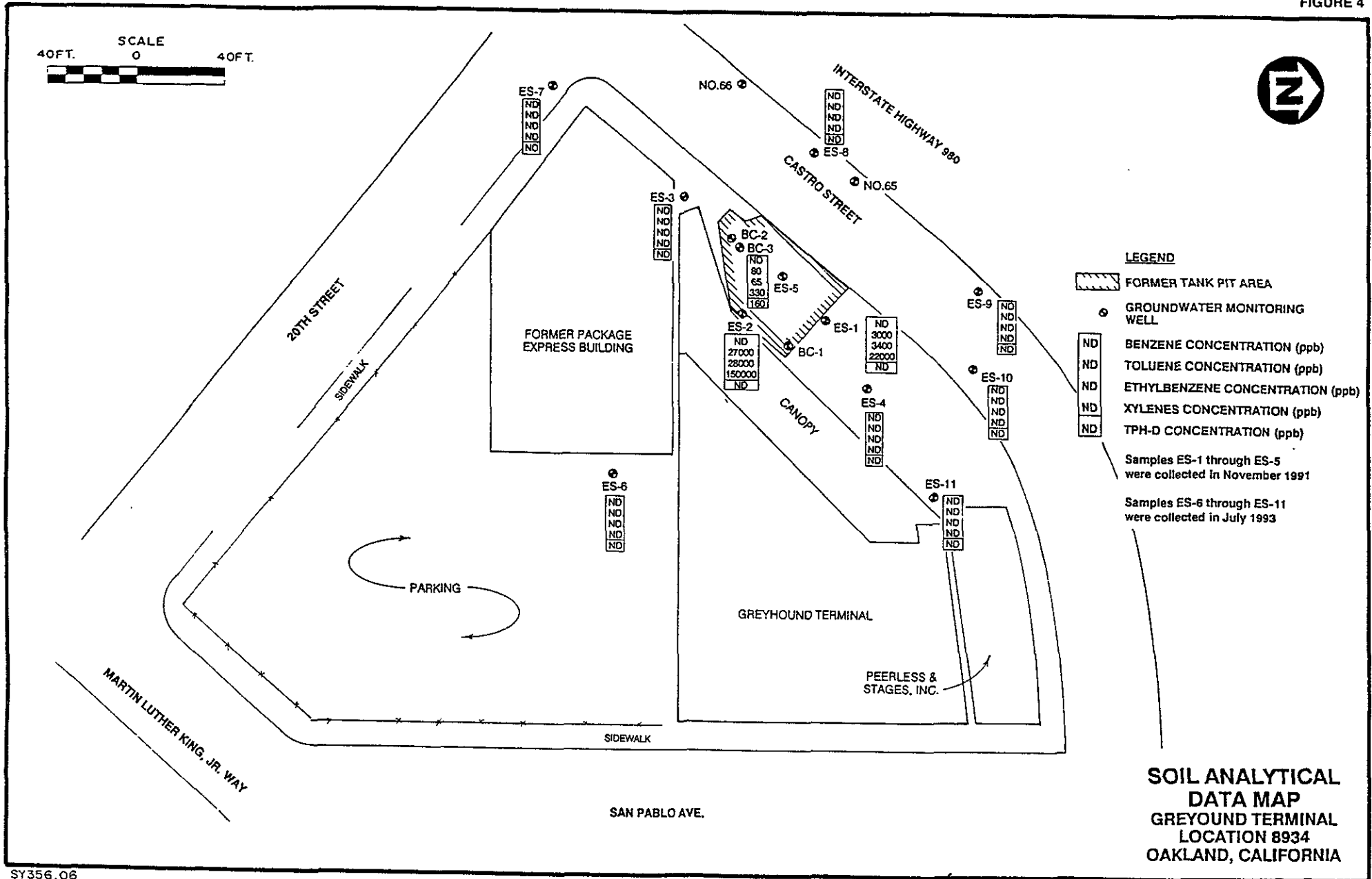


FIGURE 3



GROUNDWATER ANALYTICAL  
DATA MAP  
GREYHOUND TERMINAL  
LOCATION 8934  
OAKLAND, CALIFORNIA  
January 16, 1997

FIGURE 4



**ATTACHMENT A**  
**LABORATORY REPORT**



FULLERTON LABORATORY  
1511 E. ORANGETHORPE AVE.  
FULLERTON, CA 92831  
PHONE (714) 447-6868

### CASE NARRATIVE

SPL Workorders: 9701096

Southern Petroleum Laboratories (SPL) Fullerton is pleased to present the following results of laboratory analyses to Parsons Engineering Science for the Greyhound-Oakland project located in Oakland, CA. On January 18, 1997, three (3) water samples were received by the laboratory. The samples were received intact, and within the 2°C - 6°C preservation temperature range.

All samples were analyzed according to the appropriate methodologies for parameters listed on the accompanying chain of custody record; no deviations to these were required.

Please note that during the analyses for diesel range organics by modified EPA Method 8015, hydrocarbons in the motor oil range were identified in each of the samples. The hydrocarbon patterns for these were likewise typical of motor oil. Quantified against a motor oil standard, the following hydrocarbon concentrations were obtained:

ES-6	0.09 mg/L
ES-3	0.84 mg/L
ES-4	0.09 mg/L

If you have any questions regarding information presented in this report please call me at (714) 447-6868. Please refer to workorder 9701096 to expedite service.

  
Michael J. Crisostomo  
Project Manager



Certificate of Analysis No. 9701096

FULLERTON LABORATORY  
1511 E. ORANGETHORPE AVE.  
FULLERTON, CA 92831  
PHONE (714) 447-6888

Client: Parsons Engineering Science  
Client Address: 2101 Webster Street, Ste #700  
Oakland CA 94612  
Attention: Mr. Neal Siler  
Project Name: Greyhound Lines  
Site: Oakland, CA  
Method: 8020A\*\*\*

Report Date: 1/31/97  
Date(s) Received: 1/20/97  
Date(s) Sampled: 1/16/97  
Date(s) Analyzed: 1/20/97

Matrix: WATER

Units: µg/L

Sample ID	Benzene	Ethylbenzene	Toluene	Total Xylene
ES-6	ND<0.50	ND<0.50	ND<0.50	ND<0.50
ES-3	ND<0.50	ND<0.50	ND<0.50	ND<0.50
ES-4	4.6	ND<0.50	ND<0.50	0.56

\* Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA

\*\* Ref: Standard Methods for Examination of Water &amp; Wastewater, 18th ed.

\*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.





Certificate of Analysis No. 9701096

FULLERTON LABORATORY  
1511 E. ORANGETHORPE AVE.  
FULLERTON, CA 92631  
PHONE (714) 447-6866

Client: Parsons Engineering Science  
2101 Webster Street, Ste #700  
Client Address: Oakland CA 94612  
Attention: Mr. Neal Siler  
Project Name Greyhound Lines  
Site: Oakland, CA  
Method: Modified 8015A\*\*\*

Report Date: 1/31/97  
Date(s) Received: 1/20/97  
Date(s) Sampled: 1/16/97  
Date(s) Analyzed: 1/20/97

Matrix: WATER

Units: ug/L

Sample ID	Gasoline Range Organics
ES-6	ND<50
ES-3	51
ES-4	59

- \* Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA  
\*\* Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.  
\*\*\* Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.



Certificate of Analysis No. 9701096

FULLERTON LABORATORY  
1511 E. ORANGETHORPE AVE.  
FULLERTON, CA 92831  
PHONE (714) 447-6868

Client: Parsons Engineering Science  
2101 Webster Street, Ste #700  
Client Address: Oakland CA 94612  
Attention: Mr. Neal Siler  
Project Name Greyhound Lines  
Site: Oakland, CA  
Method: M8015 - Diesel

Report Date: 1/31/97  
Date(s) Received: 1/20/97  
Date(s) Sampled: 1/16/97  
Date(s) Analyzed: 1/25/97

Matrix: WATER

Units: mg/L

Sample ID	Total Petroleum Hydrocarbons-Diesel
ES-6	ND<0.05
ES-3	ND<0.05
ES-4	ND<0.05

\* Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA

\*\* Ref: Standard Methods for Examination of Water &amp; Wastewater, 18th ed.

\*\*\* Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.



Certificate of Analysis No. 9701096

FULLERTON LABORATORY  
1511 E. ORANGETHORPE AVE.  
FULLERTON, CA 92831  
PHONE (714) 447-8868

Client: Parsons Engineering Science  
2101 Webster Street, Ste #700  
Client Address: Oakland CA 94612  
Attention: Mr. Neal Siler  
Project Name Greyhound Lines  
Site: Oakland, CA  
Method: 3510 \*\*\*

Report Date: 1/31/97  
Date(s) Received: 1/20/97  
Date(s) Sampled: 1/16/97  
Date(s) Analyzed: 1/21/97

Matrix: WATER

Units: \_

Sample ID	Liquid-liquid extraction
ES-6	01/21/97
ES-3	01/21/97
ES-4	01/21/97

\* Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA

\*\* Ref: Standard Methods for Examination of Water &amp; Wastewater, 18th ed.

\*\*\* Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd ed.



SPL, Inc.

SPL Workorder No:

9701096

C-01171

page 1 of 1

Analysis Request & Chain of Custody Record

Client Name: Greystone OAKLAND!  
 Address/Phone: (510) ~~891-9085~~ 891-9085  
 Client Contact: PARSONS ES (ALAN PEEL)  
 Project Name: GLI  
 Project Number:  
 Project Location:  
 Invoice To: PARSONS SYRACUSE N.Y.

SAMPLE ID	DATE	TIME	comp	grab	matrix W=water SL=sludge O=other:	bottle P=plastic G=glass A=amber glass V=vial	size 1=1 liter 4=4oz 8=8oz 16=16oz	pres. 1=HCl 2=HNO3 3=H2SO4 O=other:	Number of Containers	Requested Analysis												
										TPH-diesel	TPH-gasoline	67EX (P20)										
ES-2	1/16/97	1100			W	G, V	1, 4	1, 2	4	X	X	X									X	
ES-3	↓	1220			↓	↓	↓	↓	↓	↓	↓	↓									X	
ES-4	↓	1315			↓	↓	↓	↓	↓	↓	↓	↓									X	

Client/Consultant Remarks: \_\_\_\_\_ Laboratory remarks: \_\_\_\_\_ Intact?  Y  N Temp: \_\_\_\_\_

Requested TAT: 24hr  72hr  48hr  Standard  Other  A3 PER CONSULT

Special Reporting Requirements: Standard QC  Level 3 QC  Fax Results  Level 4 QC  Raw Data  Special Detection Limits (specify): \_\_\_\_\_ PM review (initial): \_\_\_\_\_

1. Relinquished by Sampler: [Signature] date: 1/17/97 time: 1645  
 2. Received by: (Fed Ex)  
 3. Relinquished by: \_\_\_\_\_ date: \_\_\_\_\_ time: \_\_\_\_\_  
 4. Received by: \_\_\_\_\_  
 5. Relinquished by: [Signature] date: \_\_\_\_\_ time: \_\_\_\_\_  
 6. Received by Laboratory: [Signature] date: 1-18-97 time: 1-20-97

- 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901
- 459 Hughes Drive, Traverse City, MI 49684 (616) 947-5777
- 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775
- 1511 E. Orangethorpe Avenue, Fullerton, CA 92631 (714) 447-6868

SENT BY: 2-3-97 : 9:41 : SPL FULLERTON+ 315-451-9570 : #20/25

**ATTACHMENT B**  
**PRIOR MONITORING WELL DATA**

Well ID	Date	Depth to liquid	Depth to water	Product Thickness
BC-001	7/07/92	19.55	20.66	1.11
BC-001	8/04/92	18.47	20.90	2.43
BC-001	8/31/92	18.68	21.02	2.34
BC-001	10/06/92	18.82	21.14	2.32
BC-001	11/06/92	18.24	20.69	2.45
BC-001	1/07/93	19.60	21.76	2.16
BC-001	4/06/93	18.26	18.26	0.00
BC-001	7/03/93	19.05	19.15	.10
BC-001	8/04/93	19.30	19.40	.10
BC-001	9/01/93	19.23	19.32	.09
BC-001	10/07/93	19.25	19.43	.18
BC-001	11/02/93	19.42	19.61	.19
BC-001	12/06/93	19.31	19.53	.22
BC-001	1/05/94	19.25	19.42	.17
BC-001	2/02/94	19.30	19.50	.20
BC-001	3/02/94	18.40	18.60	.20
BC-001	4/07/94	18.10	18.20	.10
BC-001	5/05/94	18.65	18.84	.19
BC-001	6/07/94	18.25	18.52	.27
BC-001	7/13/94	18.70	18.70	0.00
BC-001	8/03/94	18.40	18.40	0.00
BC-001	9/14/94	18.72	18.73	.01
BC-001	10/06/94	18.58	18.58	0.00
BC-001	11/02/94	18.81	18.82	.01
BC-001	12/07/94	17.93	17.94	.01
BC-001	1/13/95	18.58	18.58	0.00
BC-001	2/14/95	16.76	16.80	.04
BC-001	3/07/95	17.08	17.08	0.00
BC-001	4/11/95	16.55	16.55	0.00
BC-001	5/09/95	16.99	17.00	.01
BC-001	6/09/95	17.38	17.39	.01
BC-001	7/06/95	17.64	17.64	0.00
BC-001	8/10/95	17.89	17.89	0.00
BC-001	9/07/95	17.96	17.96	0.00
BC-001	10/03/95	18.23	18.23	0.00
BC-001	10/05/95	18.23	18.23	0.00
BC-001	11/02/95	18.02	18.02	0.00
BC-001	12/07/95	18.64	18.64	0.00
BC-001	1/03/96	18.36	18.36	0.00
BC-001	2/06/96	17.43	17.43	0.00
BC-001	3/12/96	16.85	16.85	0.00
BC-001	5/07/96	17.45	17.45	0.00
BC-001	6/05/96	17.46	17.46	0.00
BC-001	9/05/96	18.16	18.16	0.00
BC-001	10/08/96	18.40	18.40	0.00
BC-001	11/08/96	18.57	18.57	0.00
BC-001	12/13/96	18.24	18.24	0.00
BC-001	1/16/97	17.19	17.19	0.00
BC-002	7/07/92	16.89	16.89	0.00

Well ID	Date	Depth to liquid	Depth to water	Product Thickness
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BC-002	8/04/92	18.46	18.46	0.00
BC-002	8/31/92	18.89	18.89	0.00
BC-002	10/06/92	18.50	18.50	0.00
BC-002	11/06/92	15.98	15.98	0.00
BC-002	1/07/93	13.50	13.50	0.00
BC-002	4/06/93	15.20	15.20	0.00
BC-002	7/03/93	17.75	17.75	0.00
BC-002	8/04/93	18.10	18.10	0.00
BC-002	9/01/93	18.48	18.48	0.00
BC-002	10/07/93	19.02	19.02	0.00
BC-002	11/02/93	18.76	18.76	0.00
BC-002	12/06/93	18.87	18.87	0.00
BC-002	1/05/94	16.76	16.76	0.00
BC-002	2/02/94	16.42	16.42	0.00
BC-002	5/05/94	17.30	17.30	0.00
BC-002	6/07/94	17.70	17.70	0.00
BC-002	7/13/94	17.10	17.10	0.00
BC-002	8/03/94	18.36	18.36	0.00
BC-002	9/14/94	17.04	17.04	0.00
BC-002	1/13/95	12.80	12.80	0.00
BC-002	2/14/95	15.11	15.11	0.00
BC-002	3/07/95	16.21	16.21	0.00
BC-002	4/11/95	15.56	15.56	0.00
BC-002	5/09/95	15.81	15.81	0.00
BC-002	6/09/95	16.88	16.88	0.00
BC-002	7/06/95	16.88	16.88	0.00
BC-002	8/10/95	17.55	17.55	0.00
BC-002	9/07/95	18.03	18.03	0.00
BC-002	10/03/95	18.24	18.24	0.00
BC-002	10/05/95	18.24	18.24	0.00
BC-002	11/02/95	18.36	18.36	0.00
BC-002	1/03/96	17.86	17.86	0.00
BC-002	2/06/96	16.31	16.31	0.00
BC-002	3/12/96	16.50	16.50	0.00
BC-002	4/09/96	16.90	16.90	0.00
BC-002	5/07/96	17.20	17.20	0.00
BC-002	6/05/96	17.10	17.10	0.00
BC-002	7/09/96	17.70	17.70	0.00
BC-002	10/08/96	18.40	18.40	0.00
BC-002	11/08/96	18.30	18.30	0.00
BC-002	12/13/96	16.80	16.80	0.00
BC-002	1/16/97	16.40	16.40	0.00
BC-003	7/07/92	16.68	16.68	0.00
BC-003	8/04/92	19.24	19.24	0.00
BC-003	8/31/92	19.10	19.10	0.00
BC-003	10/06/92	18.93	18.93	0.00
BC-003	11/06/92	16.81	16.81	0.00
BC-003	1/07/93	16.55	16.55	0.00
BC-003	4/06/93	15.44	15.44	0.00
BC-003	7/03/93	16.81	16.81	0.00

Well ID	Date	Depth to liquid	Depth to water	Product Thickness
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BC-003	8/04/93	18.82	18.82	0.00
BC-003	9/01/93	18.40	18.40	0.00
BC-003	10/07/93	18.58	18.58	0.00
BC-003	11/02/93	18.53	18.53	0.00
BC-003	12/06/93	18.67	18.67	0.00
BC-003	1/05/94	17.51	17.51	0.00
BC-003	2/02/94	16.40	16.40	0.00
BC-003	3/02/94	15.00	15.00	0.00
BC-003	4/07/94	17.70	17.70	0.00
BC-003	5/05/94	17.90	17.90	0.00
BC-003	6/07/94	17.34	17.34	0.00
BC-003	7/13/94	18.10	18.10	0.00
BC-003	8/03/94	18.36	18.36	0.00
BC-003	9/14/94	18.31	18.31	0.00
BC-003	10/06/94	18.58	18.58	0.00
BC-003	11/02/94	18.61	18.61	0.00
BC-003	12/07/94	16.29	16.29	0.00
BC-003	1/13/95	15.40	15.40	0.00
BC-003	2/14/95	15.86	15.86	0.00
BC-003	3/07/95	16.21	16.21	0.00
BC-003	4/11/95	15.08	15.08	0.00
BC-003	5/09/95	16.92	16.92	0.00
BC-003	6/09/95	16.90	16.90	0.00
BC-003	7/06/95	16.87	16.87	0.00
BC-003	8/10/95	17.54	17.54	0.00
BC-003	9/07/95	17.80	17.80	0.00
BC-003	10/03/95	17.95	17.95	0.00
BC-003	10/05/95	17.95	17.95	0.00
BC-003	11/02/95	18.33	18.33	0.00
BC-003	1/03/96	17.55	17.55	0.00
BC-003	2/06/96	17.15	17.15	0.00
BC-003	3/12/96	16.50	16.50	0.00
BC-003	4/09/96	16.60	16.60	0.00
BC-003	5/07/96	16.90	16.90	0.00
BC-003	6/05/96	17.00	17.00	0.00
BC-003	7/09/96	17.40	17.40	0.00
BC-003	10/08/96	18.10	18.10	0.00
BC-003	11/08/96	18.20	18.20	0.00
BC-003	12/13/96	17.60	17.60	0.00
BC-003	1/16/97	16.40	16.40	0.00
ES-001	6/16/92	20.18	23.78	3.60
ES-001	7/07/92	18.60	18.60	0.00
ES-001	8/04/92	18.80	18.81	.01
ES-001	8/31/92	18.96	18.97	.01
ES-001	10/06/92	19.08	19.10	.02
ES-001	11/06/92	18.52	18.53	.01
ES-001	1/07/93	20.25	20.26	.01
ES-001	4/06/93	17.08	17.88	.80
ES-001	7/03/93	18.68	18.68	0.00
ES-001	8/04/93	18.85	18.85	0.00



Well ID	Date	Depth to liquid	Depth to water	Product Thickness
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ES-001	9/01/93	18.90	18.90	0.00
ES-001	10/07/93	19.02	19.03	.01
ES-001	11/02/93	19.20	19.20	0.00
ES-001	12/06/93	19.15	19.15	0.00
ES-001	1/05/94	18.96	18.96	0.00
ES-001	2/02/94	18.92	18.92	0.00
ES-001	3/02/94	17.91	18.08	.17
ES-001	4/07/94	18.50	18.68	.18
ES-001	5/05/94	17.88	18.02	.14
ES-001	6/07/94	18.04	18.21	.17
ES-001	7/13/94	18.08	18.08	0.00
ES-001	8/03/94	18.48	18.48	0.00
ES-001	9/14/94	18.62	18.64	.02
ES-001	10/06/94	18.39	18.43	.04
ES-001	11/02/94	18.39	18.39	0.00
ES-001	12/07/94	17.70	17.70	0.00
ES-001	1/13/95	18.39	18.43	.04
ES-001	2/14/95	16.44	16.45	.01
ES-001	3/07/95	16.74	16.74	0.00
ES-001	4/11/95	16.25	16.25	0.00
ES-001	5/09/95	16.66	16.66	0.00
ES-001	6/09/95	17.15	17.16	.01
ES-001	7/06/95	17.28	17.28	0.00
ES-001	8/10/95	17.60	17.61	.01
ES-001	9/07/95	17.79	17.79	0.00
ES-001	10/03/95	18.01	18.01	0.00
ES-001	10/05/95	18.01	18.01	0.00
ES-001	11/02/95	18.00	18.00	0.00
ES-001	12/07/95	18.39	18.40	.01
ES-001	1/03/96	18.04	18.04	0.00
ES-001	2/06/96	17.00	17.00	0.00
ES-001	3/12/96	16.51	16.51	0.00
ES-001	4/09/96	17.40	17.40	0.00
ES-001	1/16/97	16.79	16.79	0.00
ES-002	6/16/92	18.63	18.64	.01
ES-002	7/07/92	19.62	19.62	0.00
ES-002	8/04/92	19.17	19.76	.59
ES-002	8/31/92	19.29	19.90	.61
ES-002	10/06/92	19.41	20.00	.59
ES-002	11/06/92	18.84	19.44	.60
ES-002	1/07/93	20.05	20.40	.35
ES-002	4/06/93	18.20	18.31	.11
ES-002	7/03/93	19.31	19.32	.01
ES-002	8/04/93	19.15	19.18	.03
ES-002	9/01/93	19.50	19.59	.09
ES-002	10/07/93	19.57	19.60	.03
ES-002	11/02/93	19.60	19.61	.01
ES-002	12/06/93	19.71	19.74	.03
ES-002	1/05/94	19.57	19.61	.04
ES-002	2/02/94	19.20	19.25	.05

Well ID	Date	Depth to liquid	Depth to water	Product Thickness
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ES-002	3/02/94	19.00	19.50	.50
ES-002	4/07/94	19.10	19.19	.09
ES-002	5/05/94	18.77	18.79	.02
ES-002	6/07/94	18.61	18.61	0.00
ES-002	7/13/94	18.78	18.78	0.00
ES-002	8/03/94	18.72	18.72	0.00
ES-002	9/14/94	19.10	19.14	.04
ES-002	10/06/94	18.86	18.86	0.00
ES-002	11/02/94	18.97	19.91	.94
ES-002	12/07/94	18.14	18.14	0.00
ES-002	1/13/95	18.86	18.86	0.00
ES-002	2/14/95	16.92	16.92	0.00
ES-002	3/07/95	17.25	17.25	0.00
ES-002	4/11/95	16.71	16.71	0.00
ES-002	5/09/95	17.15	17.15	0.00
ES-002	6/09/95	17.60	17.61	.01
ES-002	7/06/95	17.78	17.79	.01
ES-002	8/10/95	18.09	18.10	.01
ES-002	9/07/95	18.29	18.29	0.00
ES-002	10/03/95	18.48	18.45	-.03
ES-002	10/05/95	18.45	18.48	.03
ES-002	11/02/95	18.62	18.65	.03
ES-002	12/07/95	18.85	18.90	.05
ES-002	1/03/96	18.55	18.54	-.01
ES-002	2/06/96	17.60	17.60	0.00
ES-002	3/12/96	17.08	17.08	0.00
ES-002	4/09/96	17.18	17.18	0.00
ES-002	5/07/96	17.66	17.66	0.00
ES-002	6/05/96	17.66	17.66	0.00
ES-002	7/09/96	18.02	18.02	0.00
ES-002	9/05/96	18.39	18.39	0.00
ES-002	10/08/96	18.61	18.61	0.00
ES-002	11/08/96	18.78	18.78	0.00
ES-002	12/13/96	18.43	18.43	0.00
ES-002	1/16/97	17.57	17.57	0.00
ES-003	6/16/92	19.41	19.41	0.00
ES-003	7/07/92	19.52	19.52	0.00
ES-003	8/04/92	19.68	19.68	0.00
ES-003	8/31/92	19.80	19.80	0.00
ES-003	10/06/92	19.96	19.96	0.00
ES-003	11/06/92	18.84	19.84	1.00
ES-003	1/07/93	19.20	19.20	0.00
ES-003	4/06/93	15.92	15.92	0.00
ES-003	7/03/93	18.12	18.12	0.00
ES-003	8/04/93	19.18	19.18	0.00
ES-003	9/01/93	19.36	19.36	0.00
ES-003	10/07/93	19.62	19.62	0.00
ES-003	11/02/93	19.70	19.70	0.00
ES-003	12/06/93	19.68	19.68	0.00
ES-003	1/05/94	19.52	19.52	0.00

Well ID	Date	Depth to liquid	Depth to water	Product Thickness
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ES-003	2/02/94	19.30	19.30	0.00
ES-003	3/02/94	18.68	18.68	0.00
ES-003	4/07/94	19.00	19.00	0.00
ES-003	5/05/94	18.78	18.78	0.00
ES-003	6/07/94	18.90	18.90	0.00
ES-003	7/13/94	18.71	18.71	0.00
ES-003	8/03/94	19.03	19.03	0.00
ES-003	9/14/94	19.84	19.84	0.00
ES-003	10/06/94	19.24	19.24	0.00
ES-003	11/02/94	19.37	19.37	0.00
ES-003	12/07/94	18.44	18.44	0.00
ES-003	1/13/95	17.35	17.35	0.00
ES-003	2/14/95	17.22	17.22	0.00
ES-003	3/07/95	17.52	17.52	0.00
ES-003	4/11/95	16.95	16.95	0.00
ES-003	5/09/95	17.34	17.39	.05
ES-003	6/09/95	17.87	17.87	0.00
ES-003	7/06/95	18.07	18.07	0.00
ES-003	8/10/95	18.40	18.40	0.00
ES-003	9/07/95	18.59	18.59	0.00
ES-003	10/03/95	18.76	18.76	0.00
ES-003	10/05/95	18.76	18.76	0.00
ES-003	11/02/95	18.96	18.96	0.00
ES-003	12/07/95	19.19	19.19	0.00
ES-003	1/03/96	17.55	17.55	0.00
ES-003	2/06/96	17.86	17.86	0.00
ES-003	3/12/96	17.35	17.35	0.00
ES-003	4/09/96	17.65	17.65	0.00
ES-003	5/07/96	17.94	17.94	0.00
ES-003	6/05/96	17.94	17.94	0.00
ES-003	7/09/96	18.33	18.33	0.00
ES-003	9/05/96	18.63	18.63	0.00
ES-003	10/08/96	18.98	18.98	0.00
ES-003	11/08/96	19.16	19.16	0.00
ES-003	12/13/96	18.81	18.81	0.00
ES-003	1/16/97	17.72	17.72	0.00
ES-004	6/16/92	18.63	18.98	.35
ES-004	7/07/92	18.51	18.51	0.00
ES-004	8/04/92	18.66	18.66	0.00
ES-004	8/31/92	18.79	18.79	0.00
ES-004	10/06/92	18.92	18.92	0.00
ES-004	11/06/92	18.94	18.94	0.00
ES-004	1/07/93	18.76	18.76	0.00
ES-004	4/06/93	17.26	17.26	0.00
ES-004	7/03/93	18.08	18.08	0.00
ES-004	8/04/93	18.16	18.16	0.00
ES-004	9/01/93	18.46	18.46	0.00
ES-004	10/07/93	18.62	18.62	0.00
ES-004	11/02/93	18.74	18.74	0.00
ES-004	12/06/93	18.72	18.72	0.00

Well ID	Date	Depth to liquid	Depth to water	Product Thickness
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ES-004	1/05/94	18.55	18.55	0.00
ES-004	2/02/94	18.42	18.42	0.00
ES-004	3/02/94	17.86	17.86	0.00
ES-004	4/07/94	18.80	18.80	0.00
ES-004	5/05/94	17.86	17.86	0.00
ES-004	6/07/94	17.94	17.94	0.00
ES-004	7/13/94	18.13	18.13	0.00
ES-004	8/03/94	17.94	17.94	0.00
ES-004	9/14/94	18.18	18.18	0.00
ES-004	10/06/94	18.25	18.25	0.00
ES-004	11/02/94	18.35	18.35	0.00
ES-004	12/07/94	17.56	17.56	0.00
ES-004	1/13/95	16.77	16.77	0.00
ES-004	2/14/95	16.37	16.37	0.00
ES-004	3/07/95	16.66	16.66	0.00
ES-004	4/11/95	16.14	16.14	0.00
ES-004	5/09/95	16.57	16.57	0.00
ES-004	6/09/95	17.02	17.02	0.00
ES-004	7/06/95	17.19	17.19	0.00
ES-004	8/10/95	17.84	17.84	0.00
ES-004	9/07/95	17.68	17.68	0.00
ES-004	10/03/95	17.84	17.84	0.00
ES-004	10/05/95	17.84	17.84	0.00
ES-004	11/02/95	18.02	18.02	0.00
ES-004	12/07/95	18.23	18.23	0.00
ES-004	1/03/96	17.87	17.87	0.00
ES-004	2/06/96	17.02	17.02	0.00
ES-004	3/12/96	16.54	16.54	0.00
ES-004	4/09/96	16.76	16.76	0.00
ES-004	5/07/96	16.17	16.17	0.00
ES-004	6/05/96	17.05	17.05	0.00
ES-004	7/09/96	17.37	17.37	0.00
ES-004	9/05/96	17.74	17.74	0.00
ES-004	10/08/96	17.97	17.97	0.00
ES-004	11/08/96	18.13	18.13	0.00
ES-004	12/13/96	17.83	17.83	0.00
ES-004	1/16/97	16.92	16.92	0.00
ES-005	6/16/92	18.40	20.40	2.00
ES-005	7/07/92	20.23	20.23	0.00
ES-005	8/04/92	18.16	20.43	2.27
ES-005	8/31/92	18.24	20.80	2.56
ES-005	10/06/92	18.24	21.37	3.13
ES-005	11/06/92	17.60	20.92	3.32
ES-005	1/05/93	18.42	19.75	1.33
ES-005	1/07/93	19.35	22.00	2.65
ES-005	4/06/93	17.28	17.28	0.00
ES-005	7/03/93	19.50	19.50	0.00
ES-005	8/04/93	18.61	18.61	0.00
ES-005	9/01/93	18.79	18.80	.01
ES-005	10/07/93	18.65	19.33	.68

Well ID	Date	Depth to liquid	Depth to water	Product Thickness
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ES-005	11/02/93	18.91	19.45	.54
ES-005	12/06/93	18.78	19.25	.47
ES-005	2/02/94	18.18	19.98	1.80
ES-005	3/02/94	18.07	18.30	.23
ES-005	4/07/94	18.37	18.38	.01
ES-005	5/05/94	18.24	18.26	.02
ES-005	6/07/94	18.26	18.27	.01
ES-005	7/13/94	18.30	18.30	0.00
ES-005	8/03/94	17.90	17.90	0.00
ES-005	9/14/94	18.41	18.42	.01
ES-005	10/06/94	18.23	18.23	0.00
ES-005	11/02/94	18.47	18.47	0.00
ES-005	12/07/94	17.45	17.45	0.00
ES-005	1/13/95	18.23	18.23	0.00
ES-005	2/14/95	16.45	16.45	0.00
ES-005	3/07/95	16.53	16.53	0.00
ES-005	4/11/95	16.00	16.00	0.00
ES-005	5/09/95	16.45	16.45	0.00
ES-005	6/09/95	16.90	16.90	0.00
ES-005	7/06/95	17.09	17.09	0.00
ES-005	8/10/95	17.44	17.44	0.00
ES-005	9/07/95	17.61	17.61	0.00
ES-005	10/03/95	18.74	18.74	0.00
ES-005	10/05/95	18.74	18.74	0.00
ES-005	11/02/95	17.98	17.98	0.00
ES-005	12/07/95	18.21	18.22	.01
ES-005	1/03/96	17.89	17.89	0.00
ES-005	2/06/96	16.76	16.76	0.00
ES-005	3/12/96	16.36	16.36	0.00
ES-005	4/09/96	16.70	16.70	0.00
ES-005	5/07/96	16.95	16.95	0.00
ES-005	6/05/96	16.95	16.95	0.00
ES-005	7/09/96	17.34	17.34	0.00
ES-005	1/16/97	16.68	16.68	0.00
ES-006	1/05/93	21.76	21.76	0.00
ES-006	9/01/93	21.94	21.94	0.00
ES-006	10/07/93	21.81	21.81	0.00
ES-006	11/02/93	21.91	21.91	0.00
ES-006	12/06/93	21.90	21.90	0.00
ES-006	2/02/94	21.74	21.74	0.00
ES-006	3/02/94	21.10	21.10	0.00
ES-006	4/07/94	21.30	21.30	0.00
ES-006	5/05/94	21.16	21.16	0.00
ES-006	6/07/94	21.02	21.02	0.00
ES-006	7/13/94	21.40	21.40	0.00
ES-006	8/03/94	21.58	21.58	0.00
ES-006	9/14/94	21.52	21.52	0.00
ES-006	10/06/94	21.58	21.58	0.00
ES-006	11/02/94	21.64	21.64	0.00
ES-006	12/07/94	20.94	20.94	0.00

Well ID	Date	Depth to liquid	Depth to water	Product Thickness
-----	-----	-----	-----	-----
ES-006	1/13/95	20.25	20.25	0.00
ES-006	2/14/95	19.82	19.82	0.00
ES-006	3/07/95	20.06	20.06	0.00
ES-006	4/11/95	19.56	19.56	0.00
ES-006	5/09/95	97.84	97.84	0.00
ES-006	6/09/95	20.37	20.37	0.00
ES-006	7/06/95	20.55	20.55	0.00
ES-006	8/10/95	20.81	20.81	0.00
ES-006	9/07/95	20.94	20.94	0.00
ES-006	10/03/95	21.14	21.14	0.00
ES-006	10/05/95	21.14	21.14	0.00
ES-006	11/02/95	21.31	21.31	0.00
ES-006	12/07/95	21.48	21.48	0.00
ES-006	1/03/96	21.24	21.24	0.00
ES-006	2/06/96	20.52	20.52	0.00
ES-006	3/12/96	19.85	19.85	0.00
ES-006	4/09/96	20.14	20.14	0.00
ES-006	5/07/96	20.42	20.42	0.00
ES-006	6/05/96	20.41	20.41	0.00
ES-006	7/09/96	20.74	20.74	0.00
ES-006	10/08/96	21.23	21.23	0.00
ES-006	11/08/96	21.44	21.44	0.00
ES-006	12/13/96	21.19	21.19	0.00
ES-006	1/16/97	20.15	20.15	0.00
ES-007	1/05/93	19.90	19.90	0.00
ES-007	9/01/93	19.71	19.71	0.00
ES-007	10/07/93	19.99	19.99	0.00
ES-007	11/02/93	20.12	20.12	0.00
ES-007	12/06/93	20.15	20.15	0.00
ES-007	2/02/94	19.79	19.79	0.00
ES-007	3/02/94	19.14	19.14	0.00
ES-007	4/07/94	19.44	19.44	0.00
ES-007	5/05/94	19.30	19.30	0.00
ES-007	6/07/94	19.33	19.33	0.00
ES-007	7/13/94	19.11	19.11	0.00
ES-007	8/03/94	19.40	19.40	0.00
ES-007	9/14/94	19.64	19.64	0.00
ES-007	10/06/94	19.73	19.73	0.00
ES-007	11/02/94	19.79	19.79	0.00
ES-007	12/07/94	19.89	19.89	0.00
ES-007	1/13/95	18.11	18.11	0.00
ES-007	2/14/95	17.63	17.63	0.00
ES-007	3/07/95	17.92	17.92	0.00
ES-007	4/11/95	17.35	17.35	0.00
ES-007	5/09/95	17.79	17.79	0.00
ES-007	6/09/95	18.29	18.29	0.00
ES-007	7/06/95	18.46	18.46	0.00
ES-007	8/10/95	18.77	18.77	0.00
ES-007	9/07/95	18.98	18.98	0.00
ES-007	10/03/95	19.15	19.15	0.00

Well ID	Date	Depth to liquid	Depth to water	Product Thickness
-----	-----	-----	-----	-----
ES-007	10/05/95	19.15	19.15	0.00
ES-007	11/02/95	19.36	19.36	0.00
ES-007	12/07/95	19.57	19.57	0.00
ES-007	1/03/96	19.29	19.29	0.00
ES-007	2/06/96	18.41	18.41	0.00
ES-007	3/12/96	17.76	17.76	0.00
ES-007	4/09/96	18.05	18.05	0.00
ES-007	5/07/96	18.36	18.36	0.00
ES-007	6/05/96	18.36	18.36	0.00
ES-007	7/09/96	18.72	18.72	0.00
ES-007	9/05/96	19.12	19.12	0.00
ES-007	10/08/96	19.37	19.37	0.00
ES-007	11/08/96	19.56	19.56	0.00
ES-007	12/13/96	19.28	19.28	0.00
ES-007	1/16/97	18.19	18.19	0.00
ES-008	9/01/93	18.88	18.88	0.00
ES-008	10/07/93	19.13	19.13	0.00
ES-008	11/02/93	19.26	19.26	0.00
ES-008	12/06/93	19.24	19.24	0.00
ES-008	1/05/94	19.10	19.10	0.00
ES-008	2/02/94	19.08	19.08	0.00
ES-008	3/02/94	18.28	18.28	0.00
ES-008	4/07/94	18.44	18.44	0.00
ES-008	5/05/94	18.26	18.26	0.00
ES-008	6/07/94	18.32	18.32	0.00
ES-008	7/13/94	18.50	18.50	0.00
ES-008	8/03/94	18.42	18.42	0.00
ES-008	9/14/94	18.50	18.50	0.00
ES-008	10/06/94	18.76	18.76	0.00
ES-008	11/02/94	18.76	18.76	0.00
ES-008	12/07/94	18.00	18.00	0.00
ES-008	1/13/95	16.83	16.83	0.00
ES-008	2/14/95	16.67	16.67	0.00
ES-008	3/07/95	16.99	16.99	0.00
ES-008	4/11/95	16.41	16.41	0.00
ES-008	5/09/95	16.92	16.92	0.00
ES-008	6/09/95	17.35	17.35	0.00
ES-008	7/06/95	17.56	17.56	0.00
ES-008	8/10/95	17.89	17.89	0.00
ES-008	9/07/95	18.09	18.09	0.00
ES-008	10/03/95	18.27	18.27	0.00
ES-008	10/05/95	18.27	18.27	0.00
ES-008	11/02/95	18.51	18.51	0.00
ES-008	12/07/95	18.72	18.72	0.00
ES-008	1/03/96	18.36	18.36	0.00
ES-008	2/06/96	17.07	17.07	0.00
ES-008	3/12/96	16.79	16.79	0.00
ES-008	4/09/96	17.10	17.10	0.00
ES-008	5/07/96	17.34	17.34	0.00
ES-008	6/05/96	17.36	17.36	0.00

Well ID	Date	Depth to liquid	Depth to water	Product Thickness
-----	-----	-----	-----	-----
ES-008	7/09/96	17.71	17.71	0.00
ES-008	9/05/96	18.13	18.13	0.00
ES-008	10/08/96	18.44	18.44	0.00
ES-008	11/08/96	18.61	18.61	0.00
ES-008	12/13/96	18.32	18.32	0.00
ES-008	1/16/97	17.22	17.22	0.00
ES-009	9/01/93	19.74	19.74	0.00
ES-009	10/07/93	17.90	17.90	0.00
ES-009	12/06/93	18.00	18.00	0.00
ES-009	1/05/94	17.80	17.80	0.00
ES-009	2/02/94	17.02	17.02	0.00
ES-009	3/02/94	17.12	17.12	0.00
ES-009	4/07/94	17.24	17.24	0.00
ES-009	5/05/94	17.04	17.04	0.00
ES-009	6/07/94	17.06	17.06	0.00
ES-009	7/13/94	17.40	17.40	0.00
ES-009	8/03/94	17.10	17.10	0.00
ES-009	9/14/94	17.09	17.09	0.00
ES-009	10/06/94	17.46	17.46	0.00
ES-009	11/02/94	17.55	17.55	0.00
ES-009	12/07/94	16.79	16.79	0.00
ES-009	1/13/95	15.80	15.80	0.00
ES-009	2/14/95	15.49	15.49	0.00
ES-009	3/07/95	15.79	15.79	0.00
ES-009	4/11/95	15.23	15.23	0.00
ES-009	5/09/95	15.72	15.72	0.00
ES-009	6/09/95	16.13	16.13	0.00
ES-009	7/06/95	16.34	16.34	0.00
ES-009	8/10/95	16.67	16.67	0.00
ES-009	9/07/95	16.87	16.87	0.00
ES-009	10/03/95	17.09	17.09	0.00
ES-009	10/05/95	17.09	17.09	0.00
ES-009	11/02/95	17.30	17.30	0.00
ES-009	12/07/95	17.48	17.48	0.00
ES-009	1/03/96	17.12	17.12	0.00
ES-009	2/06/96	16.00	16.00	0.00
ES-009	3/12/96	15.63	15.63	0.00
ES-009	4/09/96	15.92	15.92	0.00
ES-009	5/07/96	16.17	16.17	0.00
ES-009	6/05/96	16.19	16.19	0.00
ES-009	7/09/96	16.52	16.52	0.00
ES-009	9/05/96	16.92	16.92	0.00
ES-009	10/08/96	17.19	17.19	0.00
ES-009	11/08/96	17.37	17.37	0.00
ES-009	12/13/96	17.09	17.09	0.00
ES-009	1/16/97	15.99	15.99	0.00
ES-010	9/01/93	18.04	18.04	0.00
ES-010	10/07/93	17.40	17.40	0.00



Well ID	Date	Depth to liquid	Depth to water	Product Thickness
-----	-----	-----	-----	-----
ES-010	11/02/93	17.46	17.46	0.00
ES-010	12/06/93	17.44	17.44	0.00
ES-010	1/05/94	17.27	17.27	0.00
ES-010	2/02/94	17.25	17.25	0.00
ES-010	3/02/94	16.61	16.61	0.00
ES-010	4/07/94	16.74	16.74	0.00
ES-010	5/05/94	16.55	16.55	0.00
ES-010	6/07/94	17.50	17.50	0.00
ES-010	7/13/94	16.10	16.10	0.00
ES-010	8/03/94	16.20	16.20	0.00
ES-010	9/14/94	16.48	16.48	0.00
ES-010	10/06/94	16.96	16.96	0.00
ES-010	11/02/94	17.05	17.05	0.00
ES-010	12/07/94	16.29	16.29	0.00
ES-010	1/13/95	15.42	15.42	0.00
ES-010	2/14/95	15.05	15.05	0.00
ES-010	3/07/95	15.34	15.34	0.00
ES-010	4/11/95	14.82	14.82	0.00
ES-010	5/09/95	15.26	15.26	0.00
ES-010	6/09/95	15.70	15.70	0.00
ES-010	7/06/95	15.89	15.89	0.00
ES-010	8/10/95	16.21	16.21	0.00
ES-010	9/07/95	16.42	16.42	0.00
ES-010	10/03/95	16.59	16.59	0.00
ES-010	10/05/95	16.59	16.59	0.00
ES-010	11/02/95	16.77	16.77	0.00
ES-010	12/07/95	16.97	16.97	0.00
ES-010	1/03/96	16.61	16.61	0.00
ES-010	2/06/96	15.71	15.71	0.00
ES-010	3/12/96	17.35	17.35	0.00
ES-010	4/09/96	15.44	15.44	0.00
ES-010	5/07/96	15.75	15.75	0.00
ES-010	6/05/96	17.75	17.75	0.00
ES-010	7/09/96	18.04	18.04	0.00
ES-010	9/05/96	16.45	16.45	0.00
ES-010	10/08/96	16.70	16.70	0.00
ES-010	11/08/96	16.87	16.87	0.00
ES-010	12/13/96	16.55	16.55	0.00
ES-010	1/16/97	15.49	15.49	0.00
ES-011	9/01/93	18.74	18.74	0.00
ES-011	10/07/93	18.90	18.90	0.00
ES-011	11/02/93	19.00	19.00	0.00
ES-011	12/06/93	19.02	19.02	0.00
ES-011	1/05/94	18.86	18.86	0.00
ES-011	2/02/94	18.74	18.74	0.00
ES-011	3/02/94	18.14	18.14	0.00
ES-011	4/07/94	18.38	18.38	0.00
ES-011	5/05/94	18.15	18.15	0.00
ES-011	6/07/94	18.28	18.28	0.00
ES-011	7/13/94	18.60	18.60	0.00

Well ID	Date	Depth to liquid	Depth to water	Product Thickness
-----	-----	-----	-----	-----
ES-011	8/03/94	18.18	18.18	0.00
ES-011	9/14/94	18.47	18.47	0.00
ES-011	10/06/94	18.55	18.55	0.00
ES-011	11/02/94	18.64	18.64	0.00
ES-011	12/07/94	17.49	17.49	0.00
ES-011	1/13/95	17.16	17.16	0.00
ES-011	2/14/95	16.76	16.76	0.00
ES-011	3/07/95	17.04	17.04	0.00
ES-011	4/11/95	16.54	16.54	0.00
ES-011	5/09/95	16.95	16.95	0.00
ES-011	6/09/95	17.34	17.34	0.00
ES-011	7/06/95	17.54	17.54	0.00
ES-011	8/10/95	17.85	17.85	0.00
ES-011	9/07/95	18.03	18.03	0.00
ES-011	10/03/95	18.20	18.20	0.00
ES-011	10/05/95	18.20	18.20	0.00
ES-011	11/02/95	18.38	18.38	0.00
ES-011	12/07/95	18.59	18.59	0.00
ES-011	1/03/96	18.21	18.21	0.00
ES-011	2/06/96	17.45	17.45	0.00
ES-011	3/12/96	16.83	16.83	0.00
ES-011	4/09/96	17.13	17.13	0.00
ES-011	5/07/96	17.42	17.42	0.00
ES-011	6/05/96	17.42	17.42	0.00
ES-011	7/09/96	17.71	17.71	0.00
ES-011	9/05/96	18.07	18.07	0.00
ES-011	10/08/96	18.29	18.29	0.00
ES-011	11/08/96	18.45	18.45	0.00
ES-011	12/13/96	18.09	18.09	0.00
ES-011	1/16/97	17.10	17.10	0.00

**ATTACHMENT C**  
**PREVIOUS ANALYTICAL DATA SUMMARY**

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
7/08/92	BC-02	WATER		ND	ND	ND	8.4	8.4	2.1	NA
7/08/92	BC-03	WATER		ND	2.5	ND	6.1	8.6	3.9	NA
7/08/92	ES-03	WATER		54	21	48	34	157	1.3	NA
7/08/92	ES-04	WATER		31	5.6	ND	2.8	39.4	ND	NA

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
10/06/92	BC-02	WATER		ND	1.1	0.9	7.2	9.2	ND	NA
10/06/92	BC-03	WATER		ND	1.9	0.5	1.8	4.2	0.8	NA
10/06/92	ES-03	WATER		93	18	ND	11	122	ND	NA
10/06/92	ES-04	WATER		100	8.2	ND	7.6	115.8	ND	NA

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
1/07/93	BC-02	WATER		ND	1.1	1.5	9.5	12.1	ND	NA
1/07/93	BC-03	WATER		ND	ND	ND	ND	ND	ND	NA
1/07/93	ES-03	WATER		52	49	100	250	451	ND	NA
1/07/93	ES-04	WATER		30	6.7	7.7	16	60.4	ND	NA

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
4/06/93	BC-02	WATER		ND	ND	ND	ND	ND	0.13	ND
4/06/93	BC-03	WATER		ND	ND	ND	ND	ND	0.12	ND
4/06/93	ES-03	WATER		53	ND	67	78	198	0.51	4.5
4/06/93	ES-04	WATER		33	2.3	1.9	4.7	41.9	ND	0.36

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
7/23/93	ES-03	WATER		28	5.9	4.6	4.6	43.1	0.06	1500
7/23/93	ES-04	WATER		24	1.1	0.07	8.3	33.47	ND	ND
7/23/93	ES-06	WATER		ND	ND	ND	ND	ND	ND	ND
7/23/93	ES-07	WATER		ND	ND	ND	ND	ND	ND	ND
7/23/93	ES-08	WATER		ND	ND	ND	ND	ND	ND	ND
7/23/93	ES-09	WATER		ND	ND	ND	ND	ND	ND	ND
7/23/93	ES-10	WATER		ND	ND	ND	ND	ND	ND	ND
7/23/93	ES-11	WATER		ND	0.7	ND	1.2	1.9	ND	ND



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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
10/07/93	BC-02	WATER		ND	ND	ND	ND	ND	1.4	NA
10/07/93	BC-03	WATER		ND	ND	1.0	2.0	3.0	1.4	NA
10/07/93	ES-03	WATER		2.0	1.0	ND	2.0	5.0	ND	NA
10/07/93	ES-04	WATER		8.0	ND	ND	2.0	10.0	ND	NA
10/07/93	ES-06	WATER		1.0	ND	ND	ND	ND	ND	NA
10/07/93	ES-07	WATER		ND	ND	ND	ND	ND	ND	NA
10/07/93	ES-08	WATER		ND	ND	ND	ND	ND	ND	NA
10/07/93	ES-09	WATER		ND	ND	ND	ND	ND	ND	NA
10/07/93	ES-10	WATER		ND	ND	ND	ND	ND	ND	NA
10/07/93	ES-11	WATER		ND	ND	ND	ND	ND	ND	NA

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
1/05/94	BC-02	WATER		NA	NA	NA	NA	NA	NA	NA
1/05/94	BC-03	WATER		ND	ND	ND	1.6	1.6	1.8	ND
1/05/94	ES-03	WATER		13	2.0	7.0	5.0	27	NA	0.53
1/05/94	ES-04	WATER		15	0.6	0.4	3.0	19	ND	0.13
1/05/94	ES-06	WATER		ND	ND	ND	ND	ND	ND	ND
1/05/94	ES-07	WATER		ND	ND	ND	ND	ND	ND	ND
1/05/94	ES-08	WATER		ND	ND	ND	ND	ND	ND	ND
1/05/94	ES-09	WATER		ND	ND	ND	ND	ND	ND	ND
1/05/94	ES-10	WATER		ND	ND	ND	ND	ND	ND	ND
1/05/94	ES-11	WATER		ND	ND	ND	ND	ND	ND	ND

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
4/07/94	BC-02	WATER		NA	NA	NA	NA	NA	NA	NA
4/07/94	BC-03	WATER		ND	ND	ND	ND	ND	0.85	ND
4/07/94	ES-03	WATER		10	9	26	34	79	0.91	0.85
4/07/94	ES-04	WATER		11	ND	ND	ND	11	ND	0.17
4/07/94	ES-06	WATER		ND	ND	ND	ND	ND	ND	0.16
4/07/94	ES-07	WATER		ND	ND	ND	ND	ND	0.10	0.11
4/07/94	ES-08	WATER		ND	ND	ND	ND	ND	ND	ND
4/07/94	ES-09	WATER		ND	ND	ND	ND	ND	ND	ND
4/07/94	ES-10	WATER		ND	ND	ND	ND	ND	ND	ND
4/07/94	ES-11	WATER		ND	ND	ND	ND	ND	0.35	ND

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
7/13/94	BC-02	WATER		NA	NA	NA	NA	NA	NA	NA
7/13/94	BC-03	WATER		ND	ND	ND	ND	ND	0.20	ND
7/13/94	ES-03	WATER		2.0	0.9	0.8	3.0	6.7	0.28	0.37
7/13/94	ES-04	WATER		9.0	ND	ND	0.7	9.7	ND	0.13
7/13/94	ES-06	WATER		ND	ND	ND	ND	ND	ND	ND
7/13/94	ES-07	WATER		ND	ND	ND	ND	ND	ND	ND
7/13/94	ES-08	WATER		ND	ND	ND	ND	ND	NA	ND
7/13/94	ES-09	WATER		ND	ND	ND	ND	ND	ND	ND
7/13/94	ES-10	WATER		ND	ND	ND	ND	ND	ND	ND
7/13/94	ES-11	WATER		ND	ND	ND	ND	ND	ND	ND

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
10/06/94	BC-02	WATER		NA	NA	NA	NA	NA	NA	NA
10/06/94	BC-03	WATER		ND	ND	ND	ND	ND	0.82	ND
10/06/94	ES-03	WATER		ND	ND	ND	ND	ND	ND	ND
10/06/94	ES-04	WATER		18.0	ND	2.0	3.0	23.0	ND	0.10
10/06/94	ES-06	WATER		ND	ND	ND	ND	ND	ND	ND
10/06/94	ES-07	WATER		ND	ND	ND	ND	ND	ND	ND
10/06/94	ES-08	WATER		ND	ND	ND	ND	ND	ND	ND
10/06/94	ES-09	WATER		ND	ND	ND	ND	ND	ND	ND
10/06/94	ES-10	WATER		ND	ND	ND	ND	ND	ND	ND
10/06/94	ES-11	WATER		ND	ND	ND	ND	ND	ND	ND

Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
1/13/95	BC-02	WATER		ND	ND	ND	ND	ND	1.1	ND
1/13/95	BC-03	WATER		ND	ND	ND	ND	ND	0.89	ND
1/13/95	ES-03	WATER		19	15	72	88	194	1.1	1.6
1/13/95	ES-04	WATER		12	ND	ND	2	14	ND	0.15
1/13/95	ES-06	WATER		ND	ND	ND	ND	ND	ND	ND
1/13/95	ES-07	WATER		ND	ND	ND	ND	ND	ND	ND
1/13/95	ES-08	WATER		ND	ND	ND	ND	ND	ND	ND
1/13/95	ES-09	WATER		ND	ND	ND	ND	ND	1.1	ND
1/13/95	ES-10	WATER		ND	ND	ND	ND	ND	ND	ND
1/13/95	ES-11	WATER		ND	ND	ND	ND	ND	ND	ND



Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
7/06/95	BC-02	WATER		ND	ND	ND	ND	ND	0.29	ND
7/06/95	BC-03	WATER		ND	ND	ND	ND	ND	0.38	ND
7/06/95	ES-03	WATER		6	ND	7	ND	13	1.2	0.24
7/06/95	ES-04	WATER		100	10	26	61	197	0.16	0.60
7/06/95	ES-06	WATER		ND	ND	ND	2	2	ND	ND
7/06/95	ES-07	WATER		ND	ND	ND	ND	ND	ND	ND
7/06/95	ES-08	WATER		ND	ND	ND	ND	ND	ND	ND
7/06/95	ES-09	WATER		ND	ND	ND	ND	ND	ND	ND
7/06/95	ES-10	WATER		ND	ND	ND	ND	ND	ND	ND
7/06/95	ES-11	WATER		ND	ND	ND	ND	ND	ND	ND



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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
10/05/95	BC-02	WATER		1	ND	ND	1	2	1.5	ND
10/05/95	BC-03	WATER		ND	ND	ND	ND	ND	ND	ND
10/05/95	ES-03	WATER		2	2	ND	ND	4	0.11	ND
10/05/95	ES-04	WATER		210	16	71	84	381	0.17	1.2
10/05/95	ES-06	WATER		ND	ND	ND	ND	ND	ND	ND
10/05/95	ES-07	WATER		ND	ND	ND	ND	ND	ND	ND
10/05/95	ES-08	WATER		ND	ND	ND	ND	ND	ND	ND
10/05/95	ES-09	WATER		ND	ND	ND	ND	ND	ND	ND
10/05/95	ES-10	WATER		ND	ND	ND	ND	ND	ND	ND
10/05/95	ES-11	WATER		ND	ND	ND	ND	ND	ND	ND

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
1/05/96	ES-03	WATER		ND	ND	ND	ND	ND	ND	ND
1/05/96	ES-04	WATER		34	ND	5	4	ND	ND	0.12
1/05/96	ES-06	WATER		ND	ND	ND	ND	ND	ND	ND

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
4/09/96	ES-03	WATER		ND	ND	ND	ND	ND	0.12	NA
4/09/96	ES-06	WATER		ND	ND	ND	ND	ND	0.22	NA

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
4/11/96	ES-04	WATER		57	3	17	19	96	ND	NA

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
7/09/96	ES-03	WATER		ND	ND	ND	ND	ND	ND	ND
7/09/96	ES-04	WATER		43	4.6	21	17	85.6	ND	0.22
7/09/96	ES-06	WATER		ND	ND	ND	ND	ND	ND	ND
7/09/96	ES-07	WATER		ND	ND	ND	ND	ND	ND	ND
7/09/96	ES-08	WATER		ND	ND	ND	ND	ND	ND	ND
7/09/96	ES-11	WATER		ND	ND	ND	ND	ND	ND	ND

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10/08/96	ES-03	WATER		ND	ND	ND	ND	ND	ND	ND
10/08/96	ES-04	WATER		110	4.4	42	39	195.4	ND	0.86
10/08/96	ES-06	WATER		ND	ND	ND	ND	ND	ND	ND

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Date	Location	Matrix	Depth	Benzene	Toulene	Ethyl- benzene	Total Xylenes	Total Btex	TPH diesel	TPH gasoline
1/16/97	ES-3	WATER		ND	ND	ND	ND	ND	ND	0.051
1/16/97	ES-4	WATER		4.6	ND	ND	0.56	ND	ND	0.059
1/16/97	ES-6	WATER		ND	ND	ND	ND	ND	ND	ND