

ENVIRONMENTAL
PROTECTION

95 JUN 17 PM 2:05

June 11, 1996

Mr. R. Jeff Granberry
Shell Oil Products Company
P.O. Box 4023
Concord, California 94524

LOP 413

RE: Quarterly Monitoring Report - Second Quarter 1996
Shell Service Station
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303

Dear Mr. Granberry:

This Quarterly Monitoring Report describes the recently completed activities associated with ground water monitoring and sampling at the referenced site (Plates 1 and 2). This report was prepared to meet quarterly reporting guidelines issued by the Regional Water Quality Control Board and the Alameda County Health Care Services Agency.

This document presents the results of activities performed in the second quarter of 1996.

Quarterly Monitoring & Sampling Summary

- Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water levels in Wells S-1, S-4 through S-11, and SR-1 on May 4, 1996.
- Ground water samples collected from Wells S-8 and S-11 were transported to Sequoia Analytical (Sequoia) of Redwood City, California. A duplicate sample and an equipment blank were prepared and analyzed for quality control purposes.
- Enviro, Inc. (Enviros) evaluated water-level measurement data and chemical analytical results and prepared this report, which includes the Blaine Quarterly Ground Water Monitoring Report and a ground water contour/benzene concentration map.
- Ground water flows southwest at an approximate hydraulic gradient of 0.02. A ground water contour map is presented on Plate 2.
- TPPH concentrations in ground water samples ranged from not detected (ND) to 3,500 ppb. Benzene concentrations ranged from 0.70 to 13 ppb. A benzene concentration map was prepared and is presented on Plate 2.

Quarterly Sampling

Monitoring Wells S-8 and S-11 were sampled and analyzed for Total Purgeable Petroleum Hydrocarbons quantified as Gasoline (TPPH) according to EPA Method 8015 (Modified) and benzene, toluene, ethylbenzene and xylenes (BTEX) according to EPA Method 8020. Additionally, a duplicate sample and an equipment blank were prepared and analyzed for quality control purposes.

Field monitoring data and chemical analytical data are summarized in Table 1. The Blaine Quarterly Ground Water Monitoring Report is presented in Appendix A.

Monitoring, sampling, and reporting will continue on the established schedule for the next quarter.

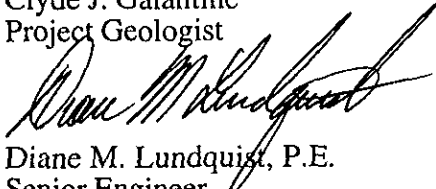
If you have any questions regarding the contents of this document, please call.

Sincerely,

Enviros, Inc.



Clyde J. Galantine
Project Geologist



Diane M. Lundquist, P.E.
Senior Engineer
C46725



Attachments:

Table 1. Well Concentrations

Plate 1. Vicinity Map

Plate 2. Ground Water Contour/Benzene Concentration Map

Appendix A

Blaine Quarterly Ground Water Monitoring Report

cc: Ms. Susan L. Hugo, Alameda County Health Care Services Agency

TABLE 1

WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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S-1		Top casing elevation (ft): 35.31								
(3rd quarter)										
04-May-92	9.50	25.81	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Aug-92	10.85	24.46	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Nov-92	10.34	24.97	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Feb-93	7.60	27.71	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
07-Jun-93	8.63	26.68	0.00	<50	2.8	1.3	0.7	3.0	NA	
13-Aug-93	9.20	26.11	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-93	10.58	24.73	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-94	8.41	26.90	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
03-May-94	9.09	26.22	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	8.81	26.50	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Aug-95	9.35	25.96	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Feb-96	7.45	27.86	0.00	NA	NA	NA	NA	NA	NA	
04-May-96	8.91	26.40	0.00	NA	NA	NA	NA	NA	NA	

S-2		Top casing elevation (ft): 33.91								
04-May-92	9.44	24.47	0.00	1600	190	6	240	54	NA	
10-Aug-92	10.73	23.18	0.00	<50	4.1	<0.5	<0.5	<0.5	NA	
11-Sep-92	NA	NA	0.00	84	19	0.7	2.2	4.3	NA	
23-Feb-93	9.04	24.87	0.00	16000	1600	480	850	1800	NA	
07-Jun-93										Well Destroyed

S-3		Top casing elevation (ft): 33.56								
04-May-92	9.22	NA	0.00	NA	NA	NA	NA	NA	NA	
10-Aug-92										Well Paved Over - Inaccessible

TABLE 1

**WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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S-4		Top casing elevation (ft): 34.08								
(3rd quarter)										
04-May-92	9.96	24.12	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
10-Aug-92	11.32	22.76	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
09-Nov-92	11.29	22.79	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
23-Feb-93	9.82	24.26	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
07-Jun-93	10.51	23.57	0.00	50	9.2	5.5	3.3	14		NA
13-Aug-93	11.05	23.03	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
18-Nov-93	11.34	22.74	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
10-Feb-94	9.93	24.15	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
03-May-94	10.40	23.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
01-Aug-94	10.68	23.40	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
02-Aug-95	10.62	23.46	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
02-Feb-96	9.23	24.85	0.00	NA	NA	NA	NA	NA	NA	NA
04-May-96	10.37	23.71	0.00	NA	NA	NA	NA	NA	NA	NA

S-5		Top casing elevation (ft): 33.42								
(1st & 3rd quarters)										
04-May-92	10.27	23.15	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
10-Aug-92	10.68	22.74	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
09-Nov-92	10.69	22.73	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
23-Feb-93	9.45	23.97	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
07-Jun-93	10.23	23.19	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
13-Aug-93	10.58	22.84	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
18-Nov-93	10.70	22.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
10-Feb-94	9.75	23.67	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA

TABLE 1

WELL CONCENTRATIONS
 Shell Oil Products Company
 2800 Telegraph Avenue
 Oakland, California
 WIC #204-5508-2303

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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03-May-94	10.19	23.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	10.30	23.12	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
03-Feb-95	9.59	23.83	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Aug-95	10.23	23.90	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Feb-96	9.51	23.91	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
04-May-96	10.15	23.27	0.00	NA	NA	NA	NA	NA	NA	

S-6		Top casing elevation (ft): 32.59								
(3rd Quarter)										
04-May-92	9.42	23.17	0.00	3100	640	22	23	97	NA	
10-Aug-92	10.40	22.19	0.00	3400	430	27	26	120	NA	
09-Nov-92	10.16	22.43	0.00	2000	320	15	15	100	NA	
23-Feb-93	7.60	24.99	0.00	14000	780	180	380	1300	NA	
07-Jun-93	8.90	23.69	0.00	3900	1400	56	83	210	NA	
13-Aug-93	9.39	23.20	0.00	4000 a	890	16	<0.5	41	NA	
18-Nov-93	10.32	22.27	0.00	80	5.0	<0.5	<0.5	<0.5	NA	
10-Feb-94	8.68	23.91	0.00	4100	370	23	21	90	NA	
03-May-94	9.20	23.39	0.00	4700	550	28	85	340	NA	
01-Aug-94	8.90	23.69	0.00	2900	370	11	11	43	NA	
02-Aug-95	9.26	23.19	0.00	1400	160	<5	<5	<5	NA	
02-Feb-96	7.90	24.69	0.00	NA	NA	NA	NA	NA	NA	
04-May-96	8.98	23.61	0.00	NA	NA	NA	NA	NA	NA	

S-6 (DUP)										
01-Aug-94	NA	NA	NA	2600	340	8.8	7.7	33	NA	
02-Aug-95	NA	NA	NA	1400	170	<5	<5	<5	NA	

TABLE 1

WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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S-7		Top casing elevation (ft): 33.39								
(Sampled 1st & 3rd quarters)										
04-May-92	11.21	22.12	0.00	180	1.6	<0.5	1.5	3.0	NA	
10-Aug-92	12.28	21.05	0.00	190	8.0	1.4	4.7	8.5	NA	
09-Nov-92	11.77	21.56	0.00	280	16	4.0	7.8	21	NA	
23-Feb-93	8.86	24.47	0.00	210	13	2.2	5.4	12	NA	
07-Jun-93	10.58	22.75	0.00	90	1.2	2.5	1.0	<0.5	NA	
13-Aug-93	11.34	21.99	0.00	140	4.0	0.8	<0.5	0.5	NA	
18-Nov-93	12.00	21.33	0.00	440	43	4.9	0.9	4.2	NA	
10-Feb-94	9.88	23.45	0.00	250a	<0.5	<0.5	1.8	<0.5	NA	
03-May-94	10.75	22.58	0.00	130	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	11.05	22.28	0.00	250	4.8	<0.5	<0.5	<0.5	NA	
03-Feb-95	8.53	24.80	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Aug-95	11.10	22.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Feb-96	8.58	24.81	0.00	480	2.2	2.4	7.9	25	NA	
04-May-96	10.41	22.98	0.00	NA	NA	NA	NA	NA	NA	

S-8		Top casing elevation (ft): 31.97								
(Quarterly)										
04-May-92	10.29	21.68	0.00	1600	20	420	96	330	NA	
10-Aug-92	11.12	20.85	0.00	1500	19	37	60	250	NA	
09-Nov-92	10.71	21.26	0.00	710	5.7	24	28	120	NA	
23-Feb-93	6.04	25.93	0.00	3800	40	54	68	260	NA	
07-Jun-93	10.06	21.91	0.00	1200	13	19	65	150	NA	
13-Aug-93	10.56	21.41	0.00	1300	21	23	49	250	NA	
18-Nov-93	10.90	21.07	0.00	870	16	5.3	59	230	NA	

TABLE 1

**WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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10-Feb-94	9.53	22.44	0.00	2400	11	55	120	530	NA	
03-May-94	10.06	21.91	0.00	3100	12	27	130	370	NA	
01-Aug-94	10.32	21.65	0.00	1500	20	18	39	190	NA	
08-Nov-94	9.25	22.72	0.00	2100	22	38	73	390	NA	
03-Feb-95	8.99	22.98	0.00	4800	67	39	130	300	NA	
04-May-95	9.22	22.75	0.00	2600	31	23	71	310	NA	
02-Aug-95	10.36	21.61	0.00	1700	10	9.1	48	210	NA	
02-Nov-95	10.72	21.25	0.00	1200	16	13	72	130	NA	
02-Feb-96	8.92	23.05	0.00	7100	29	140	360	1300	NA	
04-May-96	9.86	22.11	0.00	3500	13	27	110	400	<25	

S-8 (DUP)										
10-Feb-94	NA	NA	NA	2400	11	46	100	440	NA	
03-May-94	NA	NA	NA	3000	21	25	120	340	NA	
08-Nov-94	NA	NA	NA	2100	20	31	75	390	NA	
03-Feb-95	NA	NA	NA	3700	53	30	100	240	NA	
04-May-95	NA	NA	NA	3300	38	26	89	390	NA	
02-Aug-95	NA	NA	NA	1200	15	13	70	120	NA	
02-Feb-96	NA	NA	NA	7800	33	160	400	1500	NA	
04-May-96	NA	NA	NA	5100	19	37	190	690	<25	

S-9										
Top casing elevation (ft): 31.86										
(3rd quarter)										
04-May-92	9.50	25.81	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Aug-92	10.85	24.46	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Nov-92	10.34	24.97	0.00	<50	<0.5	<0.5	<0.5	0.7	NA	

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WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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23-Feb-93	7.60	27.71	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
07-Jun-93	8.63	26.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Aug-93	9.20	26.11	0.00	140 b	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-93	10.58	24.73	0.00	170	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-94	8.41	26.90	0.00	140 b	<0.5	<0.5	<0.5	<0.5	NA	
03-May-94	9.09	26.22	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	8.81	26.50	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Aug-95	9.35	25.96	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Feb-96	7.53	24.33	0.00	NA	NA	NA	NA	NA	NA	
04-May-96	9.60	22.26	0.00	NA	NA	NA	NA	NA	NA	

S-10	Top casing elevation (ft): 32.95									
(3rd quarter)										
04-May-92	8.54	24.41	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Aug-92	10.43	22.52	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Nov-92	9.14	23.81	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
23-Feb-93	6.72	26.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
07-Jun-93	8.08	24.87	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Aug-93	8.83	24.12	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-93	9.46	23.49	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-94	7.41	25.54	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
03-May-94	8.16	24.79	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	8.29	24.66	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Aug-95	8.30	24.65	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
02-Feb-96	6.49	26.46	0.00	NA	NA	NA	NA	NA	NA	
04-May-96	7.55	25.40	0.00	NA	NA	NA	NA	NA	NA	

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WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
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S-11		Top casing elevation (ft): 30.78								
(Quarterly)										
04-May-92	9.99	20.79	0.00	1500	55	32	57	190	NA	
10-Aug-92	10.92	19.86	0.00	750	29	13	43	120	NA	
09-Nov-92	10.44	20.34	0.00	4100	32	62	120	1100	NA	
23-Feb-93	7.30	23.48	0.00	760	15	13	37	140	NA	
07-Jun-93	9.51	21.27	0.00	1700	40	16	100	360	NA	
13-Aug-93	10.39	20.39	0.00	60	0.9	<0.5	0.8	1.2	NA	
18-Nov-93	10.64	20.14	0.00	150	7.8	1.0	9.0	12	NA	
10-Feb-94	8.50	22.28	0.00	4400	53	19	160	390	NA	
03-May-94	9.42	21.36	0.00	65	1.5	<0.5	0.53	0.59	NA	
01-Aug-94	10.12	20.66	0.00	240	18	6.7	6.9	18	NA	
08-Nov-94	8.84	21.94	0.00	490	14	5.2	15	47	NA	
03-Feb-95	7.12	23.66	0.00	380	4.1	0.9	1.4	5.1	NA	
04-May-95	7.96	22.82	0.00	110	1.3	<0.5	1.1	1.8	NA	
02-Aug-95	9.88	20.90	0.00	230	22	11	13	35	NA	
02-Nov-95	10.10	20.68	0.00	200	26	10	10	30	NA	
02-Feb-96	7.33	23.45	0.00	110	2.9	1.0	2.6	6.5	NA	
04-May-96	8.62	22.16	0.00	<50	0.70	0.54	0.82	2.6	7.5	

S-11 (DUP)										
07-Jun-93	NA	NA	NA	1600	51	16	83	300	NA	
13-Aug-93	NA	NA	NA	70	2.1	<0.5	0.9	2.1	NA	

SR-1		Top casing elevation (ft): not surveyed								
18-Nov-93	10.02	NA	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	

TABLE 1

**WELL CONCENTRATIONS
Shell Oil Products Company
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303**

Sample Date	Measured GW Depth (ft)	Corrected GW Elev (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Comments
02-Feb-96	7.30	NA	0.00	90d	6.1	6.7	2.8	8.5	NA	
04-May-96	8.10	NA	0.00	NA	NA	NA	NA	NA	NA	
SR-1 (DUP)										
18-Nov-93	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5		

Abbreviations:

TPPH = Total Purgeable Petroleum Hydrocarbons carbon range C6 to C12 by Modified EPA Method 8015
(previously reported as Total Petroleum Hydrocarbons as Gasoline)

<x = Not detected at detection limit of x

NA = Not analyzed or not available

(DUP) = Duplicate sample

Notes:

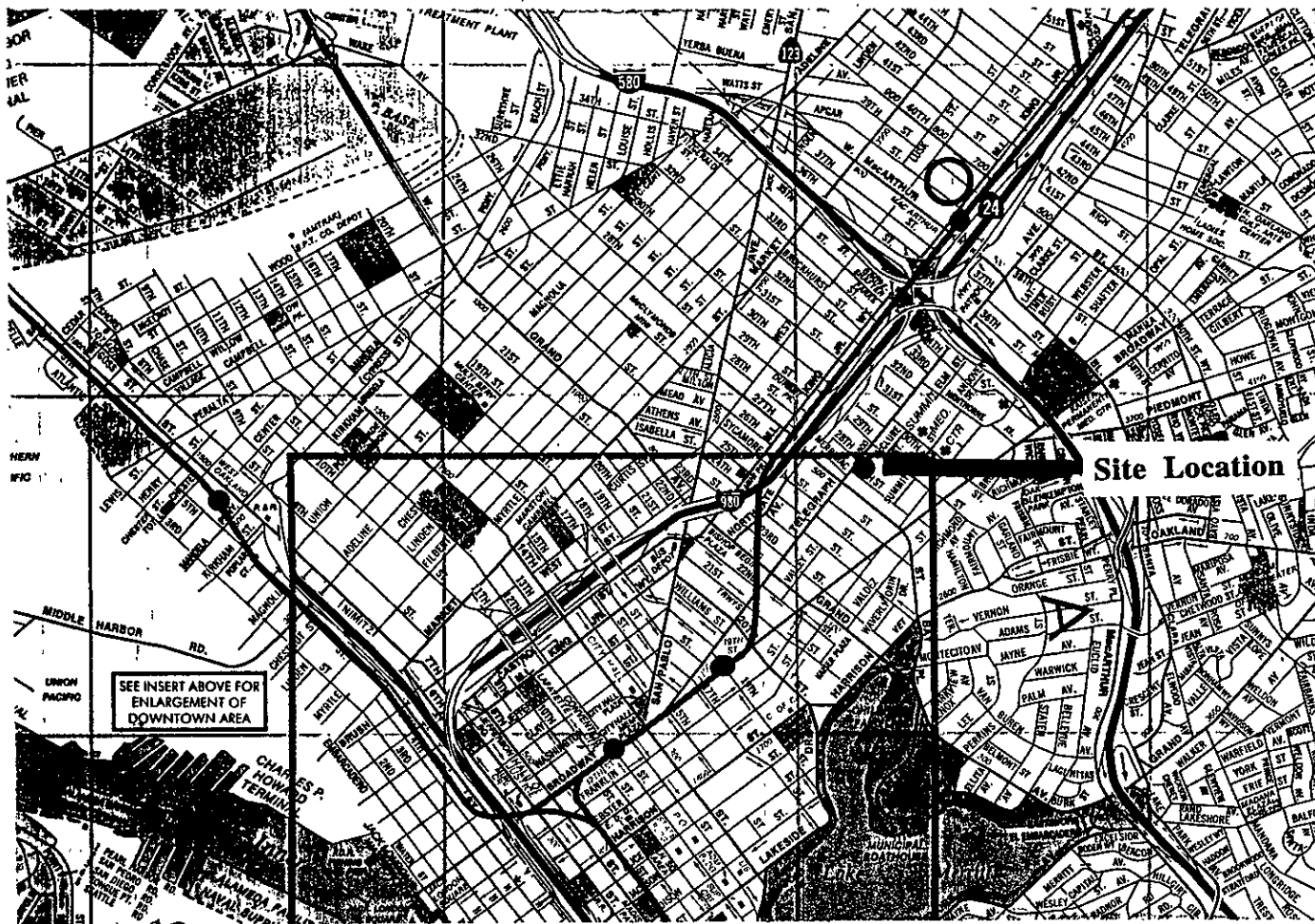
Benzene, Toluene, Ethylbenzene, Xylenes analyzed by EPA Method 8020

a = The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.

b = Well inaccessible since August 1992

c = The concentration reported as gasoline is primarily due to the presence of a discrete peak not indicative of gasoline.

Elevations referenced to Mean Sea Level



Note: Vicinity Map taken from California State AAA map.

PLATE

1

SITE VICINITY MAP
 Former Shell Service Station
 2800 Telegraph Avenue
 Oakland, California


enviros®
 95290

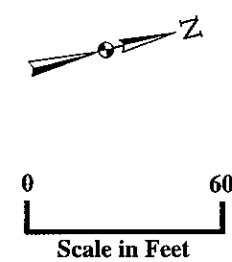
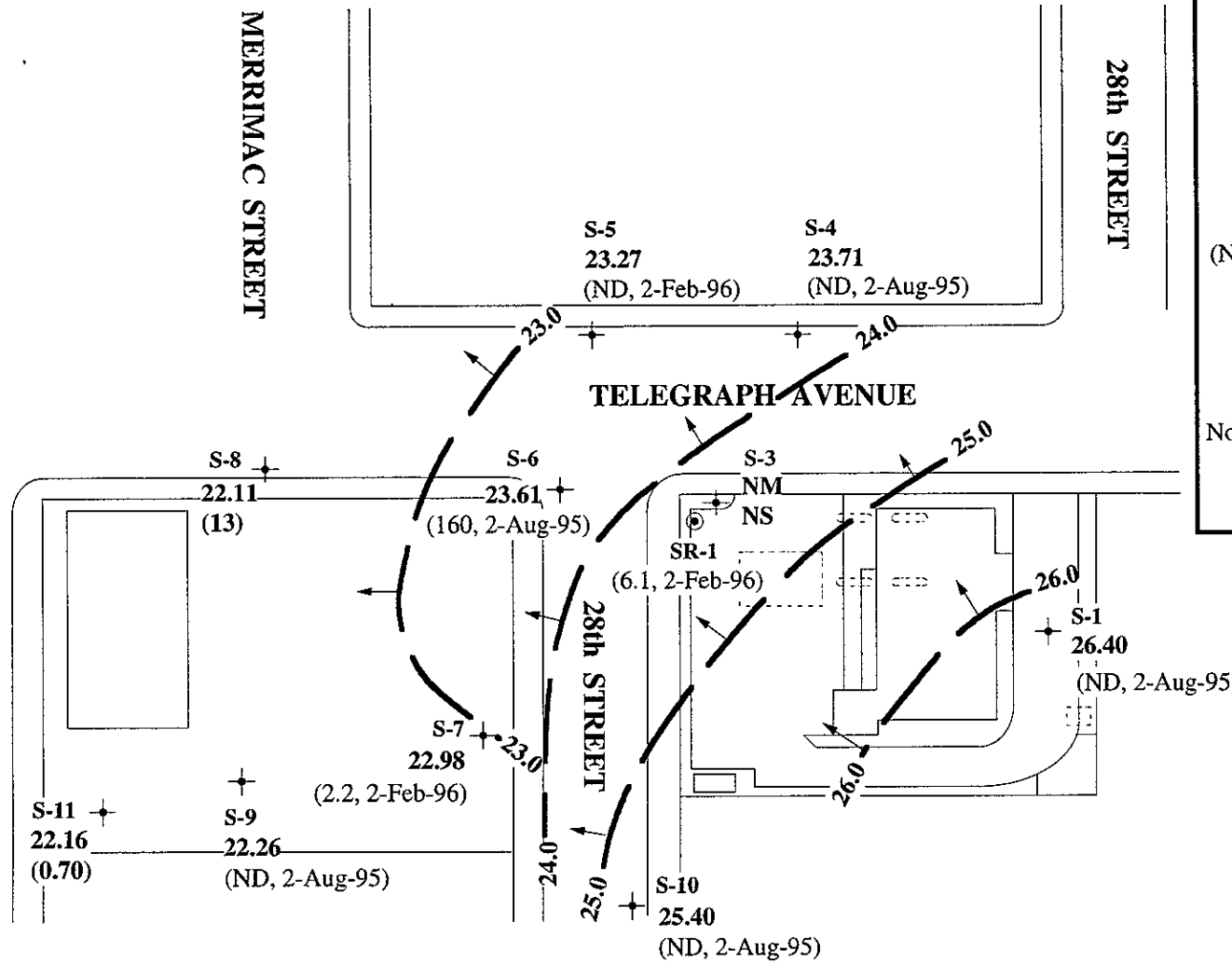
Drawn By: JLP

Date: 5-15-95

Approved By: CSG Date: 6/11/96

EXPLANATION

- + Ground water Monitoring Well
 - ⊙ Recovery Well
 -  26.0 Ground water elevation contour in feet referenced to Mean Sea Level (MSL). Arrows indicate approximate ground water flow direction.
 - 23.45 Ground water elevation in feet MSL
 - (2.2) Benzene concentration in ppb
 - (ND, 2-Feb-96) Benzene concentration and date of last sampling
 - NM Not Measured
 - NS Not Sampled
 - ND Not Detected
- Notes: Monitoring performed on 4-May-96.
Approximate Hydraulic Gradient = 0.02
Well SR-1 not used in contouring.



Base map taken from Weiss Associates Site Map

PLATE
2

GROUND WATER CONTOUR/BENZENE CONCENTRATION MAP
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

enviros®
96290

Drawn By: CJG

Date: 30-May-96

Approved By: CJG

Date: 6/11/96

Appendix A

**Blaine Tech Services Inc.
Quarterly Ground Water Monitoring Report**

BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

May 22, 1996

Shell Oil Company
P.O. Box 4023
Concord, CA 94524

Attn: R. Jeff Granberry

Shell WIC #204-5508-2303
2800 Telegraph Avenue
Oakland, California

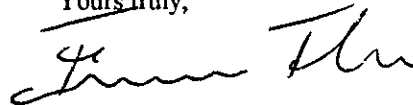
2nd Quarter 1996

Quarterly Groundwater Monitoring Report 960504-K-1

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 995-5535 ext. 201.

Yours truly,



Francis Thie

attachments: Table of Well Gauging Data
Chain of Custody
Field Data Sheets
Certified Analytical Report

cc: Enviro, Inc.
P.O. Box 259
Sonoma, CA 95476-0259
Attn: Joe Neely

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-1	5/4/96	TOB	-	NONE	-	-	8.91	27.38
S-4	5/4/96	TOB	-	NONE	-	-	10.37	30.31
S-5	5/4/96	TOB	-	NONE	-	-	10.15	30.55
S-6	5/4/96	TOB	-	NONE	-	-	8.98	22.07
S-7	5/4/96	TOB	-	NONE	-	-	10.41	30.76
S-8 *	5/4/96	TOB	ODOR	NONE	-	-	9.86	19.13
S-9	5/4/96	TOB	-	NONE	-	-	9.60	30.00
S-10	5/4/96	TOB	-	NONE	-	-	7.55	24.26
S-11	5/4/96	TOB	ODOR	NONE	-	-	8.62	19.12
SR-1	5/4/96	TOB	-	NONE	-	-	8.10	33.83

* Sample DUP was a duplicate sample taken from well S-8.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 960504-181

Date: 5/11/86
 Page 1 of 1

Site Address: 2800 Telegraph Ave., Oakland

WIC#: 204-5508-2303

Shell Engineer: R. Jeff Granberry Phone No.: (510) 675-6169
Lynn Walker Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller Phone No.: (408) 995-5535
 Fax #: 293-8773

Comments: 9605395

Sampled by: KCB

Printed Name: Keith Brown

Analysis Required

LAB: Segeone

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
					<u>N/A</u>				

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	6441	24 hour <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	6441	48 hour <input type="checkbox"/>
Soil Cleanly/Disposal <input type="checkbox"/>	6442	16 days <input checked="" type="checkbox"/> (Normal)
Water Cleanly/Disposal <input type="checkbox"/>	6443	Other <input type="checkbox"/>
Soil/Air Rem. of Sys. O & M <input type="checkbox"/>	6462	
Water Rem. of Sys. O & M <input type="checkbox"/>	6463	
Other <input type="checkbox"/>		

NOTE: Holly Lab as soon as possible of 24/48 hrs. LAT.

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
<u>S-8</u>	<u>5/11</u>			<u>W</u>		<u>3</u>						<u>X</u>	<u>X</u>						
<u>S-11</u>	<u>↓</u>			<u>↓</u>		<u>↓</u>						<u>X</u>	<u>X</u>						
<u>DUP</u>	<u>↓</u>			<u>↓</u>		<u>↓</u>						<u>X</u>	<u>X</u>						
<u>IEB</u>	<u>↓</u>			<u>↓</u>		<u>↓</u>						<u>X</u>	<u>X</u>						

Relinquished By (signature): <u>Keith Brown</u>	Printed Name: <u>Keith Brown</u>	Date: <u>5-6-86</u>	Time: <u>11:20</u>	Received (signature): <u>Michael Reed</u>	Printed Name: <u>M. Reed</u>	Date: <u>5-6-86</u>	Time: <u>11:20</u>
Relinquished By (signature): <u>Michael Reed</u>	Printed Name:	Date: <u>5-6-86</u>	Time: <u>12:45</u>	Received (signature):	Printed Name:	Date:	Time:
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature): <u>Hub</u>	Printed Name: <u>P. HUFANO</u>	Date: <u>5/14/86</u>	Time: <u>12:47</u>

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Project: Shell Oakland 960504-K1

Enclosed are the results from samples received at Sequoia Analytical on May 6, 1996.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9605395 -01	LIQUID, S-8	05/04/96	TPGBMW Purgeable TPH/BTEX
9605395 -02	LIQUID, S-11	05/04/96	TPGBMW Purgeable TPH/BTEX
9605395 -03	LIQUID, DUP	05/04/96	TPGBMW Purgeable TPH/BTEX
9605395 -04	LIQUID, EB	05/04/96	TPGBMW Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager





Blaine Technical Services
985 Timothy Drive
San Jose, CA 95133

Attention: Jim Keller

Client Proj. ID: Shell Oakland 960504-K1
Sample Descript: S-8
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9605395-01

Sampled: 05/04/96
Received: 05/06/96
Analyzed: 05/09/96
Reported: 05/15/96

QC Batch Number: GC050996BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	3500
Methyl t-Butyl Ether	25	N.D.
Benzene	5.0	13
Toluene	5.0	27
Ethyl Benzene	5.0	110
Xylenes (Total)	5.0	400
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	122

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services Client Proj. ID: Shell Oakland 960504-K1 Sampled: 05/04/96
985 Timothy Drive Sample Descript: S-11 Received: 05/06/96
San Jose, CA 95133 Matrix: LIQUID
Attention: Jim Keller Analysis Method: 8015Mod/8020 Analyzed: 05/10/96
Lab Number: 9605395-02 Reported: 05/15/96

QC Batch Number: GC051096BTEX17B
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Table with 4 columns: Analyte, Detection Limit ug/L, Sample Results ug/L. Rows include TPPH as Gas, Methyl t-Butyl Ether, Benzene, Toluene, Ethyl Benzene, Xylenes (Total).

Chromatogram Pattern:

Table with 3 columns: Surrogates, Control Limits %, % Recovery. Row includes Trifluorotoluene.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Handwritten signature of Peggy Permer, Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133	Client Proj. ID: Shell Oakland 960504-K1 Sample Descript: DUP Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9605395-03	Sampled: 05/04/96 Received: 05/06/96 Analyzed: 05/09/96 Reported: 05/15/96
Attention: Jim Keller		

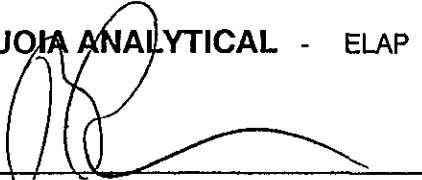
QC Batch Number: GC050996BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	5100
Methyl t-Butyl Ether	25	N.D.
Benzene	5.0	19
Toluene	5.0	37
Ethyl Benzene	5.0	190
Xylenes (Total)	5.0	690
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	123

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Technical Services 985 Timothy Drive San Jose, CA 95133 Attention: Jim Keller	Client Proj. ID: Shell Oakland 960504-K1 Sample Descript: EB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9605395-04	Sampled: 05/04/96 Received: 05/06/96 Analyzed: 05/09/96 Reported: 05/15/96
---	--	---

QC Batch Number: GC050996BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
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FAX (510) 988-9673
FAX (916) 921-0100

Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Project ID: Shell Oakland 960504-K1
Matrix: Liquid

Work Order #: 9605395 -01, 03 - 04

Reported: May 15, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC050996BTEX20A	GC050996BTEX20A	GC050996BTEX20A	GC050996BTEX20A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Woo	J. Woo	J. Woo	J. Woo
MS/MSD #:	G9604K87-02B	G9604K87-02B	G9604K87-02B	G9604K87-02B
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/9/96	5/9/96	5/9/96	5/9/96
Analyzed Date:	5/9/96	5/9/96	5/9/96	5/9/96
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
Result:	9.8	10	9.9	30
MS % Recovery:	98	100	99	100
Dup. Result:	9.7	10	10	30
MSD % Recov.:	97	100	100	100
RPD:	1.0	0.0	1.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	GBLK050996A	GBLK050996A	GBLK050996A	GBLK050996A
Prepared Date:	5/9/96	5/9/96	5/9/96	5/9/96
Analyzed Date:	5/9/96	5/9/96	5/9/96	5/9/96
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Result:	10	10	10	30
LCS % Recov.:	100	100	100	100

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9605395.BLA <1>

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

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FAX (916) 921-0100

Blaine Tech Services, Inc.
985 Timothy Drive
San Jose, CA 95133
Attention: Jim Keller

Client Project ID: Shell Oakland 960504-K1
Matrix: Liquid

Work Order #: 9605395 -02

Reported: May 15, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC051096BTEX17B	GC051096BTEX17B	GC051096BTEX17B	GC051096BTEX17B
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Vincent	R. Vincent	R. Vincent	R. Vincent
MS/MSD #:	G9605086-01C	G9605086-01C	G9605086-01C	G9605086-01C
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	5/10/96	5/10/96	5/10/96	5/10/96
Analyzed Date:	5/10/96	5/10/96	5/10/96	5/10/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
Result:	10	10	10	30
MS % Recovery:	100	100	100	100
Dup. Result:	10	10	10	30
MSD % Recov.:	100	100	100	100
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	GBLK051096B	GBLK051096B	GBLK051096B	GBLK051096B
Prepared Date:	5/10/96	5/10/96	5/10/96	5/10/96
Analyzed Date:	5/10/96	5/10/96	5/10/96	5/10/96
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
LCS Result:	9.6	9.7	9.7	28
LCS % Recov.:	96	97	97	93

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL

Reggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9605395.BLA <2>

