

ENVIRONMENTAL
PROTECTION

97 SEP 16 PM 3:14

413

September 15, 1997

Mr. Alex Perez
Shell Oil Products Company
P.O. Box 4023
Concord, California 94524

RE: Quarterly Monitoring Report - Third Quarter 1997
Shell Service Station
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303

Dear Mr. Perez:

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 third quarter of 1997.

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 July 1, 1997.
- Ground water samples were collected from Wells S-1 and S-4 through S-11 on July 1, 1997 and were transported to Sequoia Analytical of Redwood City, California for chemical analysis. 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 Blaine's quarterly ground water monitoring report and a ground water contour/benzene concentration map.
- Ground water appears to flow south-southwesterly at an approximate hydraulic gradient of 0.02. A ground water contour/benzene concentration map is presented on Plate 2.
- Ground water samples collected from Wells S-1, S-4, S-5, and S-10 were ND for TPPH, BTEX, and MTBE. Ground water samples collected from Wells S-6 through S-9 and S-11 contained TPPH concentrations ranging from ND to 610 ppb, benzene concentrations ranging from ND to 50 ppb, and MTBE concentrations ranging from ND to 3.9 ppb.

Quarterly Sampling

Monitoring Wells S-1 and S-4 through 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) and methyl-tertiary-butyl-ether (MTBE) according to EPA Method 8020. Additionally, a duplicate sample and an equipment blank were prepared and analyzed for quality control purposes.

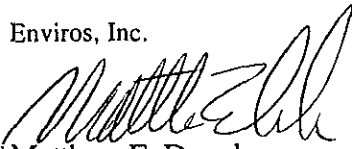
Field monitoring data and chemical analytical data are summarized in Table 1. Blaine's quarterly ground water monitoring report is presented in Appendix A.

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

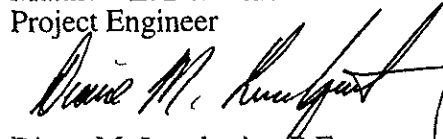
If you have any questions regarding the contents of this document, please call.

Sincerely,

Enviros, Inc.



Matthew E. Donohue
Project Engineer



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 Tech Services Inc. - Quarterly Ground Water Monitoring Report

cc: Ms. Susan L. Hugo, Alameda County Health Care Services Agency
Mr. Murray Kalender, American Real Estate Partners

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
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

S-1		Top of box elevation (ft): 35.31								
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	
08-Nov-94	9.32	25.99	0.00	NA	NA	NA	NA	NA	NA	
03-Feb-95	6.98	28.33	0.00	NA	NA	NA	NA	NA	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	
02-Aug-96	9.33	25.98	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
02-Oct-96	10.11	25.20	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	7.93	27.38	0.00	NA	NA	NA	NA	NA	NA	
17-Apr-97	8.94	26.37	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	9.55	25.76	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

S-2		Top of box elevation (ft): 33.91								
04-May-92	9.44	24.47	0.00	1600	190	6.0	240	54	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
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

10-Aug-92	10.73	23.18	0.00	<50	4.1	<0.5	<0.5	<0.5	NA	
11-Sep-92	NA	NA	NA	84	19	0.7	2.2	4.3	NA	
09-Nov-92	10.29	23.62	0.00	NA	NA	NA	NA	NA	NA	
23-Feb-93	9.04	24.87	0.00	16000	1600	480	850	1800	NA	
07-Jun-93	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Destroyed 4/8/93

S-3		Top of box elevation (ft): 33.56								
04-May-92	9.22	24.34	0.00	NA	NA	NA	NA	NA	NA	
10-Aug-92	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Paved Over - Inaccessible

S-4		Top of box elevation (ft): 34.08								
04-May-92	9.96	24.12	0.00	<50	<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	NA	
09-Nov-92	11.29	22.79	0.00	<50	<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	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	NA	
18-Nov-93	11.34	22.74	0.00	<50	<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	NA	
03-May-94	10.40	23.68	0.00	<50	<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	NA	
08-Nov-94	9.44	24.64	NA	NA	NA	NA	NA	NA	NA	
03-Feb-95	9.18	24.90	NA	NA	NA	NA	NA	NA	NA	
02-Aug-95	10.62	23.46	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	9.23	24.85	0.00	NA	NA	NA	NA	NA	NA	
04-May-96	10.37	23.71	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-96	10.69	23.39	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
02-Oct-96	10.96	23.12	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	9.37	24.71	0.00	NA	NA	NA	NA	NA	NA	
17-Apr-97	10.25	23.83	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	10.60	23.48	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

S-5	Top of box elevation (ft): 33.42									
04-May-92	10.27	23.15	0.00	<50	<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	NA	
09-Nov-92	10.69	22.73	0.00	<50	<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	NA	
07-Jun-93	10.23	23.19	0.00	<50	<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	NA	
18-Nov-93	10.70	22.72	0.00	<50	<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	NA	
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	
08-Nov-94	9.64	23.78	NA	NA	NA	NA	NA	NA	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	

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-Aug-96	10.30	23.12	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
02-Oct-96	10.54	22.88	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	9.56	23.86	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
17-Apr-97	10.03	23.39	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	10.23	23.19	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

S-6	Top of box elevation (ft): 32.59									
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	
08-Nov-94	8.32	23.69	0.00	NA	NA	NA	NA	NA	NA	
03-Feb-95	8.04	23.69	0.00	NA	NA	NA	NA	NA	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	
02-Aug-96	9.34	23.25	0.00	1600	150	9.2	13	23	17	
02-Oct-96	9.96	22.63	0.00	NA	NA	NA	NA	NA	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
08-Jan-97	7.38	25.21	0.00	NA	NA	NA	NA	NA	NA	
17-Apr-97	9.16	23.43	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	9.60	22.99	0.00	<50	1.5	<0.50	<0.50	<0.50	<2.5	
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	
S-7										
				Top of box elevation (ft): 33.33						
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	250 (a)	<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	
08-Nov-94	9.64	23.69	NA	NA	NA	NA	NA	NA	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	24.75	0.00	480	2.2	2.4	7.9	25	NA	
04-May-96	10.41	22.92	0.00	NA	NA	NA	NA	NA	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-Aug-96	11.18	22.15	0.00	300	20	2.2	3.8	7.9	21	MTBE by EPA Method 8260: 11 ppb
02-Oct-96	12.12	21.21	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	8.23	25.10	0.00	850	16	6.3	20	59	<25	
17-Apr-97	10.75	22.58	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	11.40	21.93	0.00	120	2.4	<0.50	2.9	2.6	3.5	

S-7 (DUP)										
02-Aug-96	NA	NA	NA	340	22	2.2	4.4	8.9	20	
08-Jan-97	NA	NA	NA	840	15	<5.0	21	63	25	
01-Jul-97	NA	NA	NA	120	2.4	<0.50	2.9	2.6	<2.5	

S-8										
Top of box elevation (ft): 31.97										
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	
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	

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
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	
02-Aug-96	10.30	21.67	0.00	850	9.6	7.4	30	160	11	
02-Oct-96	10.71	21.26	0.00	980	<5.0	11	13	92	<25	
08-Jan-97	8.88	23.09	0.00	6400	88	48	190	500	<100	
17-Apr-97	10.00	21.97	0.00	1700	23	7.4	34	50	74	
01-Jul-97	10.40	21.57	0.00	140	2.8	<0.50	<0.50	0.58	<2.5	
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	
02-Oct-96	NA	NA	NA	1300	<5.0	10	28	180	<25	
17-Apr-97	NA	NA	NA	1600	25	7.4	30	43	34	

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
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

S-9		Top of box elevation (ft): 31.86								
04-May-92	10.45	21.41	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Aug-92	11.52	20.34	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
09-Nov-92	11.02	20.84	0.00	<50	<0.5	<0.5	<0.5	0.7	NA	
23-Feb-93	8.00	23.86	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
07-Jun-93	10.07	21.79	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
13-Aug-93	10.92	20.94	0.00	140 (b)	<0.5	<0.5	<0.5	<0.5	NA	
18-Nov-93	11.19	20.67	0.00	170	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-94	9.16	22.70	0.00	140 (b)	<0.5	<0.5	<0.5	<0.5	NA	
03-May-94	10.03	21.83	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
01-Aug-94	10.52	21.34	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
08-Nov-94	9.08	22.78	0.00	NA	NA	NA	NA	NA	NA	
03-Feb-95	8.37	23.49	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-95	9.35	22.51	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	
02-Aug-96	10.46	21.40	0.00	<50	<0.50	<0.50	<0.50	<0.50	12	
02-Oct-96	10.66	21.20	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	7.20	24.66	0.00	NA	NA	NA	NA	NA	NA	
17-Apr-97	9.96	21.90	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	10.64	21.22	0.00	<50	<0.50	<0.50	<0.50	<0.50	3.9	

S-10		Top of box elevation (ft): 32.95								
04-May-92	8.54	24.41	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
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

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	
08-Nov-94	7.02	25.93	0.00	NA	NA	NA	NA	NA	NA	
03-Feb-95	6.79	26.16	0.00	NA	NA	NA	NA	NA	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	
02-Aug-96	9.25	23.70	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	
02-Oct-96	10.54	22.41	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	6.47	26.48	0.00	NA	NA	NA	NA	NA	NA	
17-Apr-97	7.78	25.17	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	8.83	24.12	0.00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	

S-11	Top of box elevation (ft): 30.78									
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	

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
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

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	
02-Aug-96	9.85	20.93	0.00	200	11	4.6	12	38	10	
02-Oct-96	11.00	19.78	0.00	290	20	6.2	16	48	8.4	
08-Jan-97	6.20	24.58	0.00	56	2.0	<0.50	1.0	5.8	5.2	
17-Apr-97	8.81	21.97	0.00	<50	0.88	<0.50	<0.50	<0.50	3.2	
01-Jul-97	10.47	20.31	0.00	610	50	5.9	24	110	3.1	

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	

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
-------------	------------------------	------------------------	---------	-------------	----------	----------	----------	----------	-------------	----------

SR-1	Top of box elevation (ft): not surveyed									
04-May-92	9.02	NA	0.00	NA	NA	NA	NA	NA	NA	
10-Aug-92	10.29	NA	0.00	NA	NA	NA	NA	NA	NA	
09-Nov-92	10.92	NA	0.00	NA	NA	NA	NA	NA	NA	
22-Feb-93	6.64	NA	0.00	NA	NA	NA	NA	NA	NA	
07-Jun-93	7.36	NA	0.00	NA	NA	NA	NA	NA	NA	
13-Aug-93	7.96	NA	0.00	NA	NA	NA	NA	NA	NA	
18-Nov-93	10.02	NA	0.00	<50	<0.5	<0.5	<0.5	<0.5	NA	
10-Feb-94	NA	NA	NA	NA	NA	NA	NA	NA	NA	
03-May-94	8.28	NA	0.00	NA	NA	NA	NA	NA	NA	
01-Aug-94	7.98	NA	0.00	NA	NA	NA	NA	NA	NA	
08-Nov-94	7.75	NA	0.00	NA	NA	NA	NA	NA	NA	
03-Feb-95	7.20	NA	0.00	NA	NA	NA	NA	NA	NA	
04-May-95	4.10	NA	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-95	5.31	NA	0.00	NA	NA	NA	NA	NA	NA	
02-Nov-95	10.62	NA	0.00	NA	NA	NA	NA	NA	NA	
02-Feb-96	7.30	NA	0.00	90 (d)	6.1	6.7	2.8	8.5	NA	
04-May-96	8.10	NA	0.00	NA	NA	NA	NA	NA	NA	
02-Aug-96	8.10	NA	0.00	NA	NA	NA	NA	NA	NA	
02-Oct-96	9.25	NA	0.00	NA	NA	NA	NA	NA	NA	
08-Jan-97	7.18	NA	0.00	NA	NA	NA	NA	NA	NA	
17-Apr-97	6.01	NA	0.00	NA	NA	NA	NA	NA	NA	
01-Jul-97	8.36	NA	0.00	NA	NA	NA	NA	NA	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
SR-1 (DUP)										
18-Nov-93	NA	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	

Abbreviations:

TPPH = Total Purgeable Petroleum Hydrocarbons carbon range C6 to C12 by Modified EPA Method 8015

(previously reported as Total Petroleum Hydrocarbons as Gasoline)

BTEX = benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl-ether by EPA Method 8020

<x = Not detected at detection limit of x

NA = Not analyzed or not available

(DUP) = Duplicate sample

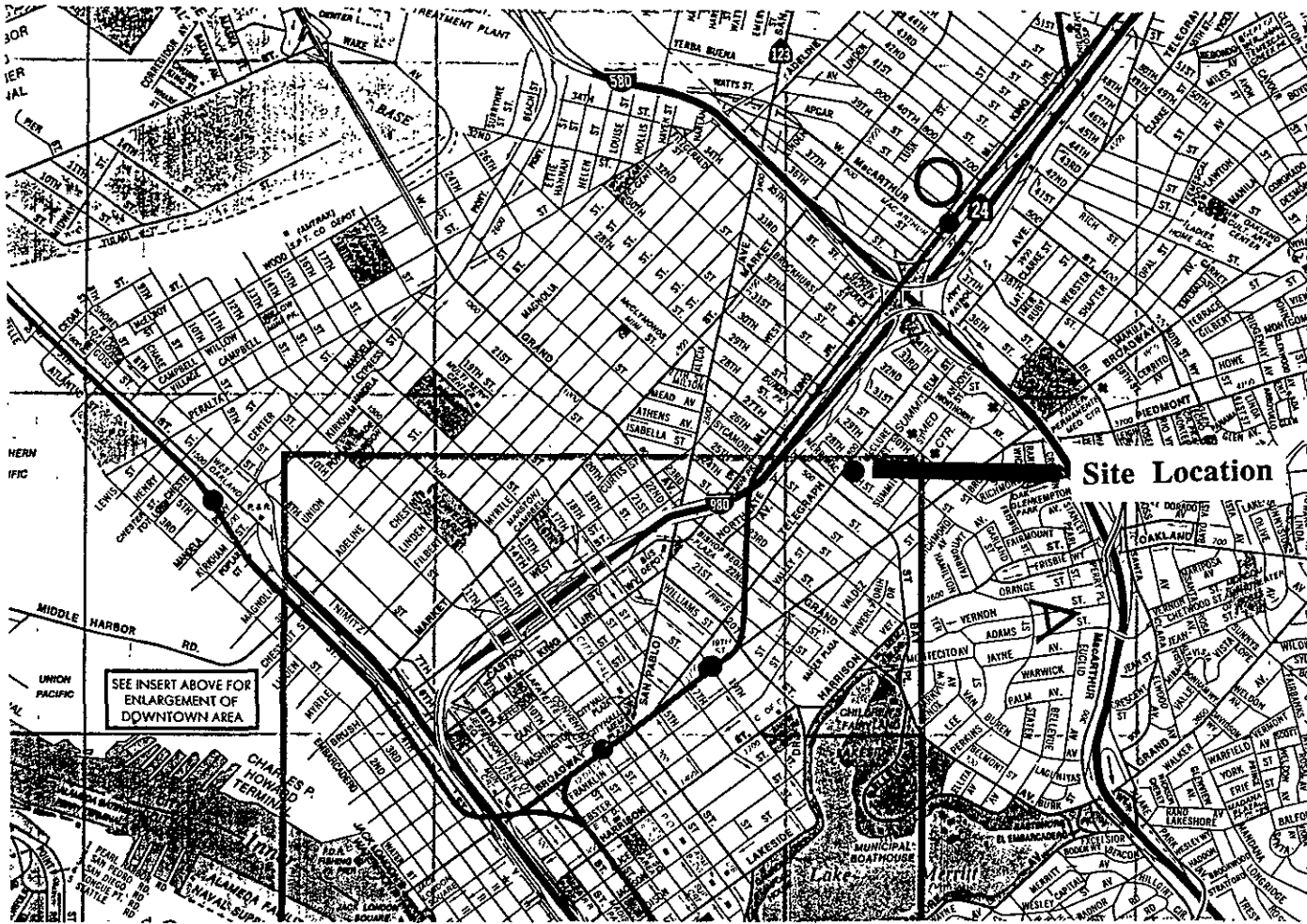
Notes:

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

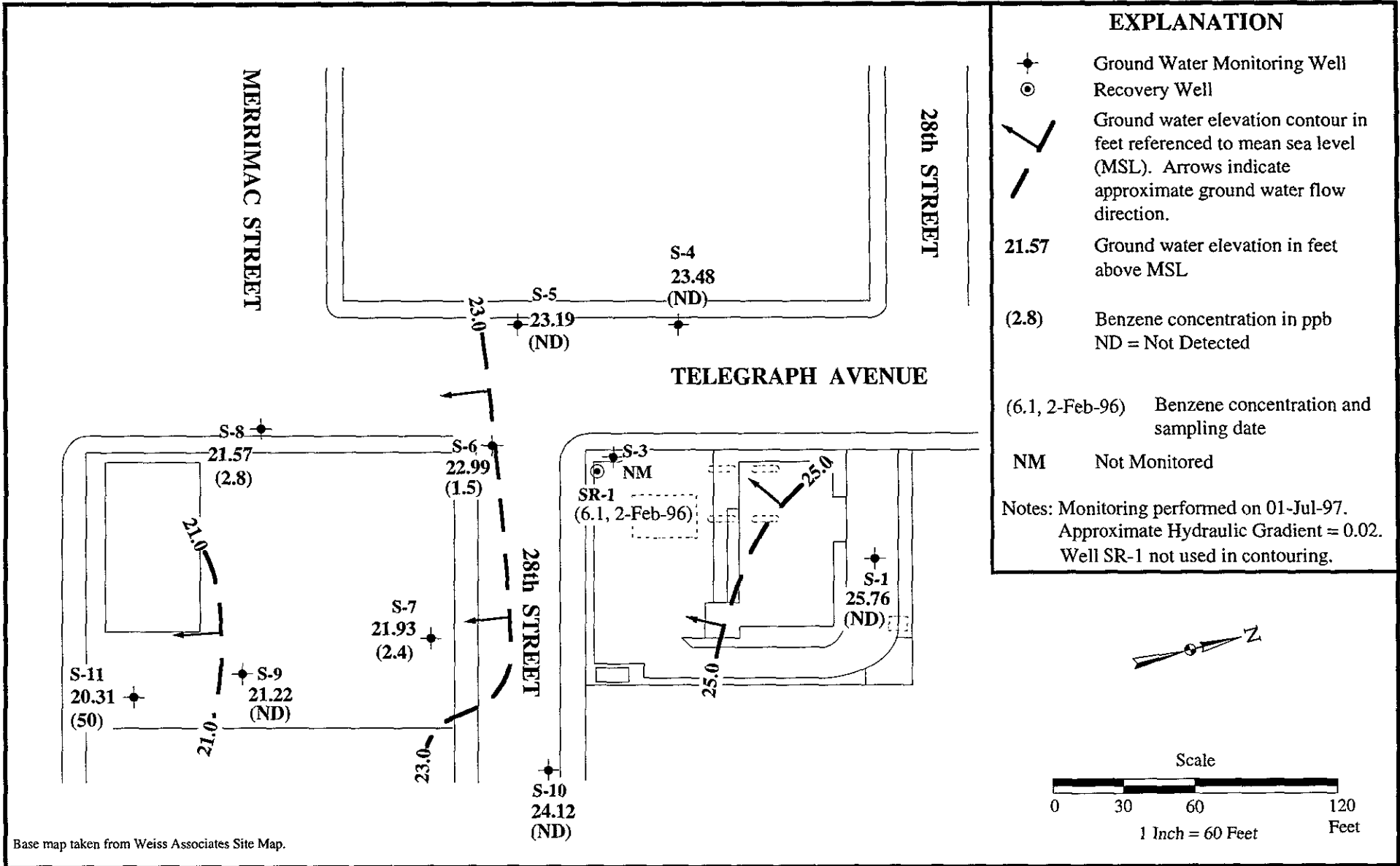


SEE INSERT ABOVE FOR ENLARGEMENT OF DOWNTOWN AREA

Note: Vicinity Map taken from California State AAA map.

<p>PLATE 1</p>	<p>SITE VICINITY MAP Former Shell Service Station 2800 Telegraph Avenue Oakland, California</p>
<p>Drawn By: JLP</p>	<p>Date: 5-15-95</p>
<p>Approved By: <i>[Signature]</i></p>	<p>Date: 9-15-97</p>

enviros[®]
95290



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®

97290

Drawn By: MED

Date: 20-Aug-97

Approved By: *[Signature]*

Date: *9-15-97*

Appendix A

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

BLAINE
TECH SERVICES, INC.



1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 573-7771 FAX
(408) 573-0555 PHONE

RECEIVED
JUL 30 1997

July 28, 1997

Shell Oil Company
P.O. Box 5278
Concord, CA 94520-9998

Attn: Alex Perez

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

3rd Quarter 1997

Quarterly Groundwater Monitoring Report 970701-Z-2

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) 573-0555 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	07/01/97	TOB	--	NONE	--	--	9.55	27.50
S-4	07/01/97	TOB	--	NONE	--	--	10.60	30.20
S-5	07/01/97	TOB	--	NONE	--	--	10.23	30.50
S-6	07/01/97	TOB	--	NONE	--	--	9.60	22.08
S-7 *	07/01/97	TOB	ODOR	NONE	--	--	11.40	30.60
S-8	07/01/97	TOB	ODOR	NONE	--	--	10.40	19.15
S-9	07/01/97	TOB	--	NONE	--	--	10.64	30.00
S-10	07/01/97	TOB	--	NONE	--	--	8.83	24.20
S-11	07/01/97	TOB	ODOR	NONE	--	--	10.47	19.13
SR-1	07/01/97	TOB	--	NONE	--	--	8.36	34.10

* Sample DUP was a duplicate sample taken from well S-7.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 970701-2

Date: 7-1-97

Page 1 of 2

Silo Address: 2800 Telegraph Ave., Oakland, CA

VIC#: 204-5508-2303

Shell Engineer: Alex Perez
Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address:
Blaine Tech Services, Inc.
1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie
Phone No.: (408) 573-0555
Fax #: 573-7771

Comments:

Sampled by:

BRET BLEAL

Printed Name:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.
S-1	7-1-97			x		3
S-4	"			x		3
S-5	"			x		3
S-6	"			x		3
S-7	"			x		3
S-8	"			x		3
S-9	"			x		3
S-10	"			x		3

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8020/402)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & 8TEX 8020 + MPEE	Asbestos	Container Size	Preparation Used	Composite Y/N
-------------------------	----------------------------	---------------------	------------------------------	-------------------	---	----------	----------------	------------------	---------------

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input checked="" type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 Hr. TAT.

9707196

UST AGENCY:

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS

Requested by (signature):

Printed Name: **BRET BLEAL**

Date: 7/1/97
Time: 4:30

Received (signature): *[Signature]*

Printed Name: **Fulcher**

Date: 7/1/97
Time: 5:30

By (signature):

Printed Name:

Date: 7/2/97
Time:

Received (signature):

Printed Name:

Date:
Time:

By (signature):

Printed Name:

Date:
Time:

Received (signature): **LDCardenas**

Printed Name: **LDCardenas**

Date: 7-2-97
Time: 11:38

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



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 9101a-3

Date: 7-1-97

Page 2 of 2

Site Address: 2800 Telegraph Ave., Oakland, CA

WIC#: 204-5508-2303

Shell Engineer: Alex Perez
Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address:
Blaine Tech Services, Inc.
1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie
Phone No.: (408) 573-0555
Fax #: 573-7771

Comments:

Sampled by: BRETT BLEAL

Printed Name:

Analysis Required

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 8020/602	Asbestos	Container Size	Preparation Used	Composite Y/N
					<u>MRE</u>				

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input checked="" type="checkbox"/>	4431	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Hobbly Lab as soon as possible of 24/48 hrs. TAT.

9707196

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	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 8020/602	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
<u>S-11</u>	<u>7-1-97</u>			<u>x</u>		<u>3</u>						<u>x</u>							
<u>02 11 2 7</u>	<u>"</u>			<u>x</u>		<u>3</u>						<u>x</u>							
<u>DUP</u>																			

Shipped By (signature): <u>[Signature]</u>	Printed Name: <u>BRETT BLEAL</u>	Date: <u>7/1/97</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>Fulcher</u>	Date: <u>7/2/97</u>
By (signature): <u>[Signature]</u>	Printed Name:	Date: <u>7/2/97</u>	Received (signature):	Printed Name:	Date:
By (signature):	Printed Name:	Date:	Received (signature): <u>[Signature]</u>	Printed Name: <u>LD Cardenas</u>	Date: <u>7-2-97</u>
		Time:	Time:		Time: <u>11:38</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 Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell Oakland/970701-Z2

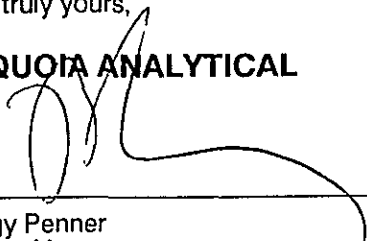
Enclosed are the results from samples received at Sequoia Analytical on July 2, 1997.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9707196 -01	LIQUID, S-1	07/01/97	TPGBMW Purgeable TPH/BTEX
9707196 -02	LIQUID, S-4	07/01/97	TPGBMW Purgeable TPH/BTEX
9707196 -03	LIQUID, S-5	07/01/97	TPGBMW Purgeable TPH/BTEX
9707196 -04	LIQUID, S-6	07/01/97	TPGBMW Purgeable TPH/BTEX
9707196 -05	LIQUID, S-7	07/01/97	TPGBMW Purgeable TPH/BTEX
9707196 -06	LIQUID, S-8	07/01/97	TPGBMW Purgeable TPH/BTEX
9707196 -07	LIQUID, S-9	07/01/97	TPGBMW Purgeable TPH/BTEX
9707196 -08	LIQUID, S-10	07/01/97	TPGBMW Purgeable TPH/BTEX
9707196 -09	LIQUID, S-11	07/01/97	TPGBMW Purgeable TPH/BTEX
9707196 -10	LIQUID, DUP	07/01/97	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 Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970701-Z2 Sample Descript: S-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707196-01	Sampled: 07/01/97 Received: 07/02/97 Analyzed: 07/11/97 Reported: 07/16/97
--	---	---

QC Batch Number: GC071197BTEX18A
 Instrument ID: GCHP18

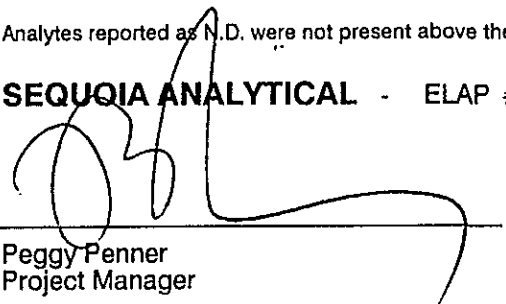
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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	90

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

SEQUOIA ANALYTICAL - ELAP #1210


 Peggy Penner
 Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970701-Z2 Sample Descript: S-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707196-02	Sampled: 07/01/97 Received: 07/02/97 Analyzed: 07/11/97 Reported: 07/16/97
--	---	---

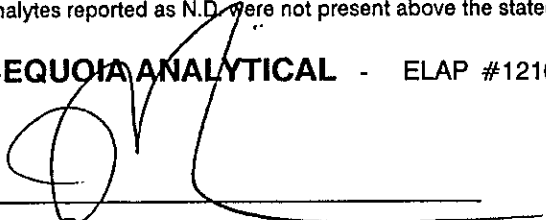
QC Batch Number: GC071197BTEX18A
Instrument ID: GCHP18

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	91

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970701-Z2 Sample Descript: S-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707196-03	Sampled: 07/01/97 Received: 07/02/97 Analyzed: 07/11/97 Reported: 07/16/97
--	---	---

QC Batch Number: GC071197BTEX18A
Instrument ID: GCHP18

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	91

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970701-Z2 Sample Descript: S-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707196-04	Sampled: 07/01/97 Received: 07/02/97 Analyzed: 07/14/97 Reported: 07/16/97
--	---	---

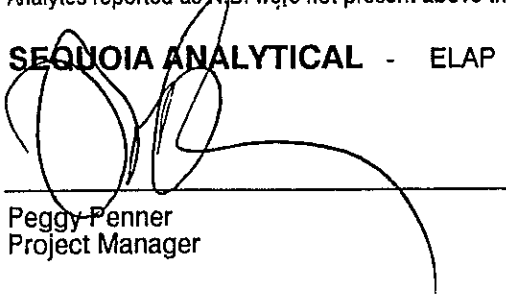
QC Batch Number: GC071497BTEX07A
Instrument ID: GCHP07

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	1.5
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	94

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970701-Z2 Sample Descript: S-7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707196-05	Sampled: 07/01/97 Received: 07/02/97 Analyzed: 07/11/97 Reported: 07/16/97
--	---	---

QC Batch Number: GC071197BTEX06A
 Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	120
Methyl t-Butyl Ether	2.5	3.5
Benzene	0.50	2.4
Toluene	0.50	N.D.
Ethyl Benzene	0.50	2.9
Xylenes (Total)	0.50	2.6
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	101

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

SEQUOIA ANALYTICAL - ELAP #1210



Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970701-Z2 Sample Descript: S-8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707196-06	Sampled: 07/01/97 Received: 07/02/97 Analyzed: 07/11/97 Reported: 07/16/97
Attention: Fran Thie		

QC Batch Number: GC071197BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	140
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	2.8
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	0.58
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		105

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970701-Z2 Sample Descript: S-9 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707196-07	Sampled: 07/01/97 Received: 07/02/97 Analyzed: 07/14/97 Reported: 07/16/97
--	---	---

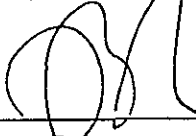
QC Batch Number: GC071497BTEX07A
 Instrument ID: GCHP07

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	3.9
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	87

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

SEQUOIA ANALYTICAL - ELAP #1210



 Peggy Penner
 Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970701-Z2 Sample Descript: S-10 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707196-08	Sampled: 07/01/97 Received: 07/02/97 Analyzed: 07/14/97 Reported: 07/16/97
--	--	---

QC Batch Number: GC071497BTEX07A
 Instrument ID: GCHP07

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	88

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970701-Z2 Sample Descript: S-11 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707196-09	Sampled: 07/01/97 Received: 07/02/97 Analyzed: 07/11/97 Reported: 07/16/97
--	--	---

QC Batch Number: GC071197BTEX06A
 Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	610
Methyl t-Butyl Ether	2.5	3.1
Benzene	0.50	50
Toluene	0.50	5.9
Ethyl Benzene	0.50	24
Xylenes (Total)	0.50	110
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210



 Peggy Penner
 Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970701-Z2 Sample Descript: DUP Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9707196-10	Sampled: 07/01/97 Received: 07/02/97 Analyzed: 07/11/97 Reported: 07/16/97
--	---	---

QC Batch Number: GC071197BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	120
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	2.4
Toluene	0.50	N.D.
Ethyl Benzene	0.50	2.9
Xylenes (Total)	0.50	2.6
Chromatogram Pattern:		C6-C12
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





Blaine Tech Services, Inc.
 1680 Rogers Avenue
 San Jose, CA 95112
 Attention: Fran Thie

Client Project ID: Shell Oakland / 970701-Z2
 Matrix: Liquid

Work Order #: 9707196 -01-03

Reported: Jul 18, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071197BTEX18A	GC071197BTEX18A	GC071197BTEX18A	GC071197BTEX18A	GC071197BTEX18A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	R. Geckler	R. Geckler	R. Geckler	R. Geckler	R. Geckler
MS/MSD #:	9706G0804	9706G0804	9706G0804	9706G0804	9706G0804
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Analyzed Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L

Result:	9.1	9.1	8.9	29	55
MS % Recovery:	91	91	89	97	92
Dup. Result:	9.0	9.0	8.9	29	54
MSD % Recov.:	90	90	89	97	90
RPD:	1.1	1.1	0.0	0.0	1.8
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK071197	BLK071197	BLK071197	BLK071197	BLK071197
Prepared Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Analyzed Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Instrument I.D.#:	GCHP18	GCHP18	GCHP18	GCHP18	GCHP18
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.7	8.7	8.5	28	59
LCS % Recov.:	87	87	85	93	98

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

9707196.BLA <1>





Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell Oakland / 970701-Z2
Matrix: Liquid

Work Order #: 9707196-04, 07-08

Reported: Jul 18, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071497BTEX07A	GC071497BTEX07A	GC071497BTEX07A	GC071497BTEX07A	GC071497BTEX07A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970704218	970704218	970704218	970704218	970704218
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/14/97	7/14/97	7/14/97	7/14/97	7/14/97
Analyzed Date:	7/14/97	7/14/97	7/14/97	7/14/97	7/14/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.5	8.2	8.2	25	63
MS % Recovery:	85	82	82	83	105
Dup. Result:	8.9	8.6	8.5	26	66
MSD % Recov.:	89	86	85	87	110
RPD:	4.6	4.8	3.6	3.9	4.7
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK071497	BLK071497	BLK071497	BLK071497	BLK071497
Prepared Date:	7/14/97	7/14/97	7/14/97	7/14/97	7/14/97
Analyzed Date:	7/14/97	7/14/97	7/14/97	7/14/97	7/14/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.2	8.9	9.0	27	63
LCS % Recov.:	92	89	90	90	105

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

SEQUOIA ANALYTICAL

Peggy 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

9707196.BLA <2>





Blaine Tech Services, Inc.
 1680 Rogers Avenue
 San Jose, CA 95112
 Attention: Fran Thie

Client Project ID: Shell Oakland / 970701-Z2
 Matrix: Liquid

Work Order #: 9707196-05-06, 09-10

Reported: Jul 18, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071197BTEX06A	GC071197BTEX06A	GC071197BTEX06A	GC071197BTEX06A	GC071197BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9706G0803	9706G0803	9706G0803	9706G0803	9706G0803
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Analyzed Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.8	9.2	9.1	27	66
MS % Recovery:	98	92	91	90	110
Dup. Result:	9.3	8.9	8.9	25	63
MSD % Recov.:	93	89	89	83	105
RPD:	5.2	3.3	2.2	7.7	4.7
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK071197	BLK071197	BLK071197	BLK071197	BLK071197
Prepared Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Analyzed Date:	7/11/97	7/11/97	7/11/97	7/11/97	7/11/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.4	9.0	9.0	26	63
LCS % Recov.:	94	90	90	87	105

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

SEQUOIA ANALYTICAL

 Peggy 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

9707196.BLA <3>





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970701-Z2 Lab Proj. ID: 9707196	Received: 07/02/97 Reported: 07/16/97
--	---	--

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 15 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Peggy Perner
Project Manager

