



ENVIRONMENTAL
PROTECTION

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August 14, 1997

Scott Seery
Alameda Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Second Quarter 1997 Monitoring Report**
Shell Service Station
3790 Hopyard Road
Pleasanton, California
WIC #204-6138-0501
Cambria Project #240-314-297

Dear Mr. Seery:

On behalf of Shell Oil Products Company, Cambria Environmental Technology, Inc. (Cambria) is submitting this status report to satisfy the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

SECOND QUARTER 1997 ACTIVITIES

Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water depths and collected water samples from the site wells. The Blaine report, describing these sampling activities and presenting the analytic results, is included as Attachment A. Cambria compiled the ground water elevation and analytic data (Table 1) and prepared a map showing ground water elevations and analytic data (Figure 1).

ANTICIPATED FUTURE 1997 ACTIVITIES

The next ground water monitoring event is scheduled for second quarter 1998. At that time, Blaine will gauge water levels and sample selected site monitoring wells, and Cambria will submit a report presenting a summary of these activities.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
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OAKLAND,
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PH: (510) 420-0700
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Scott Seery
August 14, 1997

CAMBRIA

CLOSING

We appreciate the opportunity to work with you on this project. Please call if you have any questions.

Sincerely,
Cambria Environmental Technology, Inc.



Khaled B. Rahman, R.G., C.H.G.
Senior Geologist



Attachments: A - Blaine Quarterly Ground Water Monitoring Report 7/31/99

cc: A. E. (Alex) Perez, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524
Kevin Graves, Regional Water Quality Control Board - San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland, California 94612
Ted Klenk, Pleasanton Fire Department, 4444 Railroad Street, Pleasanton, California 94566

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Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California

Well ID and Sampling Frequency	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	TPH-G	TPH-D	B	T	E	X	MTBE	DO
S-2 (Annually, Second Quarter)	03/20/91	329.21	---	---	110	---	30	2.2	10	7.0	---	---
	06/26/91		---	---	50 ^a	---	6.3	<0.5	3.3	1.3	---	---
	09/05/91		---	---	90	---	12	3.2	2.5	2.3	---	---
	12/13/91		---	---	<50	---	12	<0.5	<0.5	<0.5	---	---
	03/11/92		---	---	<30	---	<0.3	<0.3	<0.3	<0.3	---	---
	06/15/92		---	---	<50	---	0.9	<0.5	<0.5	<0.5	---	---
	09/17/92		---	---	78	---	2.6	1.3	1.3	0.9	---	---
	12/11/92		---	---	<50	---	0.8	<0.5	<0.5	<0.5	---	---
	02/04/93		---	---	55	---	1.3	0.7	0.7	<0.5	---	---
	06/03/93		---	---	<50	---	0.7	<0.5	<0.5	<0.5	---	---
	09/15/93		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	12/09/93			14.70	314.51	<50	---	<0.5	<0.5	<0.5	<0.5	---
	06/16/94			14.94	314.27	<50	---	0.8	<0.5	0.7	<0.5	---
	09/13/94			15.17	314.04	<50	---	<0.5	<0.5	<0.5	<0.5	---
	06/21/95			14.25	314.96	<50	---	<0.5	<0.5	<0.5	<0.5	---
06/12/96			14.31	314.90	<50	---	6.1	<0.5	<0.5	<0.5	48	
06/25/97			14.40	314.81	120	---	25	0.59	2.4	8.7	130	4.4
S-3 (Annually, Second Quarter)	03/20/91	327.67	---	---	70	---	2.3	8.9	4.0	23	---	---
	06/26/91		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/05/91		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	12/13/91		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	03/11/92		---	---	<30	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/15/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/17/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	12/11/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	02/04/93		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
06/03/93		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID and Sampling Frequency	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	TPH-G	TPH-D	B	T	E	X	MTBE	DO
	09/15/93		---	---	---	---	---	---	---	---	---	---
	12/09/93		---	---	---	---	---	---	---	---	---	---
	09/13/94		15.17	312.50	---	---	---	---	---	---	---	---
	06/21/95		12.49	315.18	50	---	4.1	<0.5	20	1.2	---	---
	06/12/96		12.53	315.14	<50	---	<0.5	<0.5	<0.5	<0.5	<2.5	---
	06/25/97		12.64	315.05	<50	---	<0.50	<0.50	<0.50	<0.50	<2.5	1.8
S-4 (Annually, Second Quarter)	03/20/91	328.53	---	---	1,200	---	100	<2.0	210	130	---	---
	06/26/91		---	---	220	---	14	<0.5	34	17	---	---
	09/05/91		---	---	580	---	31	0.8	53	26	---	---
	12/13/91		---	---	370	---	24	0.9	1.3	46	---	---
	03/11/92		---	---	1,600	---	23	1.2	12	20	---	---
	06/15/92		---	---	480	---	48	<1.0	95	22	---	---
	09/17/92		---	---	260	---	35	1.2	51	7.8	---	---
	12/11/92		---	---	270	---	34	0.8	28	4.5	---	---
	02/04/93		---	---	1,100	---	12	<5.0	89	100	---	---
	06/03/93		---	---	210	---	48	1.1	42	4.0	---	---
	09/15/93		---	---	700	---	21	<1.0	110	91	---	---
	12/09/93		14.16	314.37	250	---	39	<0.5	3.8	2.6	---	---
	03/04/94		14.17	314.36	150	---	25	1.4	6.8	2.8	---	---
	03/04/94 ^{dup}		14.17	314.36	140	---	28	0.8	7.9	3.2	---	---
	06/16/94		14.14	314.39	90	---	12	<0.5	1.8	2.4	---	---
	06/16/94 ^{dup}		14.14	314.39	80	---	5.9	<0.5	1.5	0.9	---	---
	09/13/94		14.42	314.11	<50	---	23	<0.5	4.9	2.4	---	---
	09/13/94 ^{dup}		14.42	314.11	<50	---	23	<0.5	4.0	2.3	---	---
	06/21/95		13.82	314.71	270	---	34	1.4	25	7.6	---	---
	06/21/95 ^{dup}		13.82	314.71	280	---	35	2.1	26	8.4	---	---
06/12/96		13.64	314.89	360	---	52	<0.5	<0.5	<0.5	92	92	

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID and Sampling Frequency	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	TPH-G	TPH-D	B	T	E	X	MTBE	DO
	06/12/96 ^{dup}		13.64	314.89	430	---	54	<1.2	72	21	96	---
	06/25/97		13.74	314.79	6,700	---	93	1,200	240	1,300	6,900 (6,800)	0.6
S-5 (Annually, Second Quarter)	03/20/91	329.66	---	---	310	---	39	12	18	30	---	---
	06/26/91		---	---	1,300	---	250	62	120	180	---	---
	09/05/91		---	---	4,700	---	660	150	170	280	---	---
	12/13/91		---	---	1,400	---	580	19	110	80	---	---
	03/11/92		---	---	<30	---	<0.3	<0.3	<0.3	<0.3	---	---
	06/15/92		---	---	1,800	---	380	52	120	180	---	---
	09/17/92		---	---	2,200	---	750	91	170	170	---	---
	12/11/92		---	---	8,700	---	1,600	66	48	340	---	---
	02/04/93		---	---	150	---	156	0.7	4.7	4.0	---	---
	06/03/93		---	---	480	---	140	3.4	17	14	---	---
	09/15/93		---	---	80	---	2.4	0.5	1.4	2.9	---	---
	12/09/93		16.26	313.40	120	---	0.56	<0.5	2.2	1.2	---	---
	03/04/94		16.25	313.41	70	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/16/94		16.04	313.62	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/13/94		11.52	318.14	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/21/95		14.50	315.16	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/12/96		12.53	317.13	<500	---	6.0	<5.0	<5.0	<5.0	1,400	---
	06/25/97		15.34	314.32	<250	---	<2.5	<2.5	<2.5	<2.5	1,100	1.1
S-6 (Annually, Second Quarter)	03/20/91	327.62	---	---	130 ^a	---	606	0.6	0.7	3.0	---	---
	06/26/91		---	---	120 ^a	---	3.8	0.8	<0.5	1.7	---	---
	09/05/91		---	---	60	---	<0.5	0.8	<0.5	0.5	---	---
	12/13/91		---	---	150	---	2.3	<0.5	<0.5	150	---	---
	03/11/92		---	---	<30	---	<0.3	<0.3	<0.5	<0.3	---	---
	06/15/92		---	---	170	---	<0.5	<0.5	<0.5	<0.5	---	---

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID and Sampling Frequency	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	TPH-G	TPH-D	← parts per billion (µg/L) →					DO mg/L
							B	T	E	X	MTBE	
	09/17/92		---	---	190	---	<0.5	1.6	<0.5	1.2	---	---
	12/11/92		---	---	180	---	<0.5	0.8	<0.5	0.7	---	---
	02/04/93		---	---	290	---	<0.5	<0.5	<0.5	0.7	---	---
	06/03/93		---	---	100	---	1.2	<0.5	<0.5	<0.5	---	---
	09/15/93		---	---	160	---	1.4	<0.5	0.9	2.0	---	---
	12/09/93		14.68	312.94	130	---	2.3	2.6	5.1	6.2	---	---
	03/04/94		14.42	313.20	220	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/16/94		14.92	312.70	60	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/13/94		14.72	312.90	<50	---	<0.5	6.0	<0.5	<0.5	---	---
	06/21/95		13.86	313.76	270	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/12/96		13.90	313.72	200	---	2.0	<0.5	<0.5	<0.5	12	---
	06/25/97		13.64	313.98	180	---	<0.50	0.61	<0.50	0.77	28	1.8
	06/25/97 ^{dup}		13.64	313.98	130	---	<0.50	<0.50	<0.50	<0.50	21	1.8
S-7	03/20/91	328.67	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/26/91		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/05/91		---	---	<50	---	<0.5	0.6	<0.5	<0.5	---	---
	12/13/91		---	---	<50	---	<0.6	<0.5	<0.5	<0.5	---	---
	03/11/92		---	---	<50	---	<0.3	<0.3	<0.3	<0.3	---	---
	06/15/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/17/92		---	---	<50	---	0.6	0.6	<0.5	<0.5	---	---
	12/11/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	02/04/93		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/03/93		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/15/93		---	---	---	---	---	---	---	---	---	---
	12/09/93		---	---	---	---	---	---	---	---	---	---
	09/13/94		16.83	311.84	---	---	---	---	---	---	---	---
	06/21/95		15.88	312.79	<50	---	<0.5	<0.5	<0.5	<0.5	---	---

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID and Sampling Frequency	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	TPH-G	TPH-D	B	T	E	X	MTBE	DO
	06/12/96		16.22	312.45	<50	---	<0.5	<0.5	<0.5	<0.5	<2.5	---
	06/25/97		16.12	312.55	<50	---	<0.50	<0.50	<0.50	<0.50	<2.5	3.0
S-8 (Annually, Second Quarter)	03/20/91	327.00	---	---	<50 ^a	---	0.8	1.8	2.6	5.2	---	---
	06/26/91		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/05/91		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	12/13/91		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	03/11/92		---	---	<30	---	<0.3	<0.3	<0.3	<0.3	---	---
	06/15/92		---	---	<50	---	1.4	1.9	<0.5	<0.5	---	---
	09/17/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	12/11/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	02/04/93		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/03/93		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/15/93		---	---	---	---	---	---	---	---	---	---
	12/09/93		---	---	---	---	---	---	---	---	---	---
	09/13/94		15.16	313.08	---	---	---	---	---	---	---	---
	06/21/95		14.11	312.89	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/12/96		14.20	312.80	<50	---	<0.5	<0.5	<0.5	<0.5	<2.5	---
	06/25/97		14.42	312.58	170	---	<0.50	<0.50	<0.50	<0.50	<2.5	0.5
S-9 (Annually, Second Quarter)	03/20/91	328.24	---	---	70 ^a	---	0.7	0.7	<0.5	1.0	---	---
	06/26/91		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/05/91		---	---	<50	---	<0.5	0.8	<0.5	<0.5	---	---
	12/13/91		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	03/11/92		---	---	<30	---	<0.3	<0.3	<0.3	<0.3	---	---
	06/15/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/17/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	12/11/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID and Sampling Frequency	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	TPH-G	TPH-D	B	T	E	X	MTBE	DO	
													← parts per billion (µg/L) →
	02/04/93		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	06/03/93		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	09/15/93		---	---	---	---	---	---	---	---	---	---	
	12/09/93		16.89	311.35	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	03/04/94		17.22	311.02	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	06/16/94		17.46	310.78	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	09/13/94		17.59	310.65	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	06/21/95		17.03	311.21	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	06/12/96		16.76	311.48	<50	---	<0.5	<0.5	<0.5	<0.5	<2.5	---	
	06/25/97		16.89	311.35	<50	---	<0.50	<0.50	<0.50	<0.50	2.8	1.0	
S-10 (Annually, Second Quarter)	03/20/91	326.55	---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	06/26/91		---	---	50	---	1.8	5.8	1.9	13	---	---	
	09/05/91		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	12/13/91		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	03/11/92		---	---	<30	---	<0.3	<0.3	<0.3	<0.3	---	---	
	06/15/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	09/17/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	12/11/92		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	02/04/93		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	06/03/93		---	---	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	
	09/15/93		---	---	---	---	---	---	---	---	---	---	
	12/09/93		---	---	---	---	---	---	---	---	---	---	
	09/13/94			13.84	312.71	---	---	---	---	---	---	---	
	06/21/95			13.08	313.47	---	---	---	---	---	---	---	
	06/12/96			13.34	313.21	<50	---	<0.5	<0.5	<0.5	<0.5	<2.5	---
		06/25/97		13.28	313.27	<50	---	<0.50	<0.50	<0.50	<0.50	2.8	2.4

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Well ID and Sampling Frequency	Sampling Date	Top-of-Casing (ft/msl)	Depth to Water (ft)	GW Elevation (ft/msl)	TPH-G	TPH-D	B	T	E	X	MTBE	DO
SR-1	03/04/94	329.78	16.34	313.44	---	---	---	---	---	---	---	---
	06/16/94		16.72	313.06	---	---	---	---	---	---	---	---
SR-2	03/04/94	328.35	14.39	313.96	---	---	---	---	---	---	---	---
	06/16/94		14.48	313.87	---	---	---	---	---	---	---	---
SR-3	03/04/94	329.11	14.66	314.45	---	---	---	---	---	---	---	---
	06/16/94		14.96	314.15	---	---	---	---	---	---	---	---
Trip Blank	06/16/94				<50	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	09/13/94				<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/21/95				<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MCLs					NE	NE	1	150	700	1,750	NE	NE

Table 1. Ground Water Elevations and Analytic Results - Shell Service Station WIC# 204-6138-0501, 3790 Hopyard Road, Pleasanton, California (continued)

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015
B = Benzene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
T = Toluene by EPA Method 8020
X = Xylenes by EPA Method 8020
MTBE = Methyl tert-butyl ether by EPA Method 8020. Result in parentheses indicates MTBE by EPA Method 8260.
DO = Dissolved Oxygen
GW = Ground water
ft = Feet
msl = Mean sea level
 $\mu\text{g/L}$ = Micrograms per liter
mg/L = Milligrams per liter
MCLs = California Primary maximum contaminant levels for drinking water (22 CCR 64444)
NE = Not established
-- = Not analyzed
<n = Not detected at detection limits of n $\mu\text{g/L}$
dup = Duplicate sample

Notes:

- a = Compounds detected within the chromatographic range of gasoline but not characteristic of the standard gasoline pattern
b = The result for gasoline is an unknown hydrocarbon which consists of a single peak

CAMBRIA

ATTACHMENT A

Blaine Quarterly Ground Water Monitoring Report



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

July 24, 1997

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

Attn: Alex Perez

Shell WIC #204-6138-0501
3790 Hopyard Road
Pleasanton, California

2nd Quarter 1997

Quarterly Groundwater Monitoring Report 970625-M-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) 573-0555 ext. 201.

Yours truly,

Francis Thie

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

cc: Cambria Environmental
1144 65th St., Suite C
Oakland, CA 94608
Attn: Josh Bergstrom

(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-2	06/25/97	TOB	-	NONE	-	-	14.40	35.06
S-3	06/25/97	TOB	-	NONE	-	-	12.64	35.04
S-4	06/25/97	TOB	ODOR	NONE	-	-	13.74	36.02
S-5	06/25/97	TOB	-	NONE	-	-	15.34	35.94
S-6*	06/25/97	TOB	ODOR	NONE	-	-	13.64	34.69
S-7	06/25/97	TOB	-	NONE	-	-	16.12	34.88
S-8	06/25/97	TOB	-	NONE	-	-	14.42	34.47
S-9	06/25/97	TOB	-	NONE	-	-	16.89	34.77
S-10	06/25/97	TOB	-	NONE	-	-	13.28	34.25

* Sample DUP was a duplicate sample taken from well S-6.

4706711



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
 Serial No: 970625-M1

Date: _____
 Page 1 of 2

Site Address: 3790 Hopyard Rd., Pleasanton, CA

WIC#: 204-6138-0501

Shell Engineer: R. Jeff Granberry Phone No.: (510) 675-6168
 Fax #: 675-6172

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

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

Comments: _____

Sampled by: Tom Madalena

Printed Name: Tom Madalena

Analysis Required

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
C.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 hrs. TAT.

UST AGENCY: _____

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/6025) <u>MTBE</u>	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 <u>MTBE</u>	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
S-2	<u>6/25/97</u>			X		3	X	X				X					Confirm highest	highest
S-3				X		3	X	X									MTBE	hits by
S-4				X		3	X	X									8260	
S-5				X		3	X	X										
S-6				X		3	X	X										
S-7				X		3	X	X										
S-8				X		3	X	X										
S-9				X		3	X	X										

Relinquished By (signature): <u>Tom Madalena</u>	Printed Name: <u>Tom Madalena</u>	Date: <u>6/26/97</u>	Received (signature): <u>Steve Ten</u>	Printed Name: <u>Steve Ten</u>	Date: <u>6/26/97</u>
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Received (signature): _____	Printed Name: _____	Date: _____
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Received (signature): _____	Printed Name: _____	Date: _____

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

PAGE 2/3
 408 573 7771
 BLAINE TECH SERVICES
 JUL 01 '97 (TUE) 08:24



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 Pleasanton/970625-M1

Enclosed are the results from samples received at Sequoia Analytical on June 25, 1997.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9706F11 -01	LIQUID, S-2	06/25/97	TPGBMW Purgeable TPH/BTEX
9706F11 -02	LIQUID, S-3	06/25/97	TPGBMW Purgeable TPH/BTEX
9706F11 -03	LIQUID, S-4	06/25/97	MTBEMW Methyl t-Butyl Etho
9706F11 -03	LIQUID, S-4	06/25/97	TPGBMW Purgeable TPH/BTEX
9706F11 -04	LIQUID, S-5	06/25/97	TPGBMW Purgeable TPH/BTEX
9706F11 -05	LIQUID, S-6	06/25/97	TPGBMW Purgeable TPH/BTEX
9706F11 -06	LIQUID, S-7	06/25/97	TPGBMW Purgeable TPH/BTEX
9706F11 -07	LIQUID, S-8	06/25/97	TPGBMW Purgeable TPH/BTEX
9706F11 -08	LIQUID, S-9	06/25/97	TPGBMW Purgeable TPH/BTEX
9706F11 -09	LIQUID, S-10	06/25/97	TPGBMW Purgeable TPH/BTEX
9706F11 -10	LIQUID, EB	06/25/97	TPGBMW Purgeable TPH/BTEX
9706F11 -11	LIQUID, DUP	06/25/97	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 Pleasanton/970625-M1
Sample Descript: S-2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9706F11-01

Sampled: 06/25/97
Received: 06/25/97
Analyzed: 07/03/97
Reported: 07/18/97

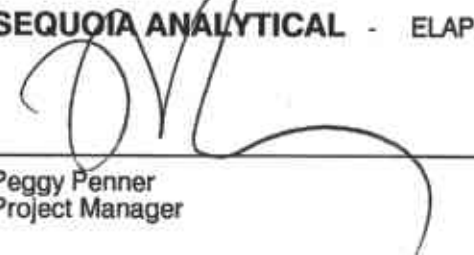
QC Batch Number: GC070397BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	120
Methyl t-Butyl Ether	2.5	130
Benzene	0.50	25
Toluene	0.50	0.59
Ethyl Benzene	0.50	2.4
Xylenes (Total)	0.50	8.7
Chromatogram Pattern:		C9-C12
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 Pleasanton/970625-M1 Sample Descript: S-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706F11-02	Sampled: 06/25/97 Received: 06/25/97 Analyzed: 07/03/97 Reported: 07/18/97
Attention: Fran Thie		

QC Batch Number: GC070397BTEX18A
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	89

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

Attention: Fran Thie

Client Proj. ID: Shell Pleasanton/970625-M1
Sample Descript: S-4
Matrix: LIQUID
Analysis Method: EPA 8260
Lab Number: 9706F11-03

Sampled: 06/25/97
Received: 06/25/97
Analyzed: 07/14/97
Reported: 07/18/97

QC Batch Number: MS0714978260F3A
Instrument ID: F3

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	100	6800
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76 114	100

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 Pleasanton/970625-M1 Sample Descript: S-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706F11-03	Sampled: 06/25/97 Received: 06/25/97 Analyzed: 07/08/97 Reported: 07/18/97
Attention: Fran Thie		

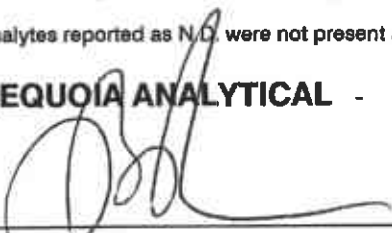
QC Batch Number: GC070897BTEX07A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2000	6700
Methyl t-Butyl Ether	100	6900
Benzene	20	93
Toluene	20	1200
Ethyl Benzene	20	240
Xylenes (Total)	20	1300
Chromatogram Pattern:		C9-C12
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 Pleasanton/970625-M1 Sample Descript: S-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706F11-04	Sampled: 06/25/97 Received: 06/25/97 Analyzed: 07/07/97 Reported: 07/18/97
Attention: Fran Thie		

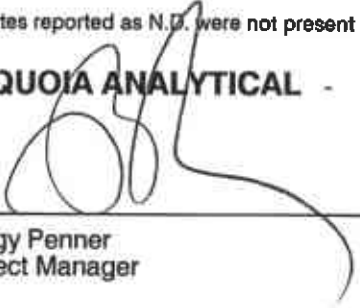
QC Batch Number: GC070797BTEX01A
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	N.D.
Methyl t-Butyl Ether	12	1100
Benzene	2.5	N.D.
Toluene	2.5	N.D.
Ethyl Benzene	2.5	N.D.
Xylenes (Total)	2.5	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	80

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 Pleasanton/970625-M1 Sample Descript: S-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706F11-05	Sampled: 06/25/97 Received: 06/25/97 Analyzed: 07/03/97 Reported: 07/18/97
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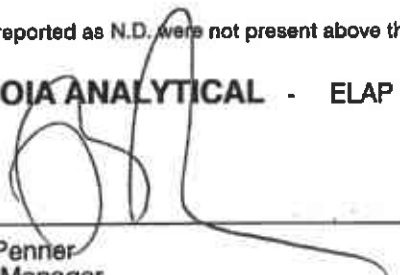
QC Batch Number: GC070397BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	180
Methyl t-Butyl Ether	2.5	28
Benzene	0.50	N.D.
Toluene	0.50	0.61
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	0.77
Chromatogram Pattern:		C9-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	108

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 Attention: Fran Thie	Client Proj. ID: Shell Pleasanton/970625-M1 Sample Descript: S-7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706F11-06	Sampled: 06/25/97 Received: 06/25/97 Analyzed: 07/08/97 Reported: 07/18/97
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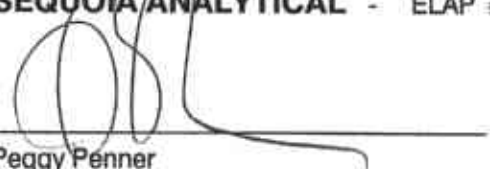
QC Batch Number: GC070897BTEX07A
Instrument ID: GCHP07

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	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 Pleasanton/970625-M1 Sample Descript: S-8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706F11-07	Sampled: 06/25/97 Received: 06/25/97 Analyzed: 07/03/97 Reported: 07/18/97
Attention: Fran Thie		

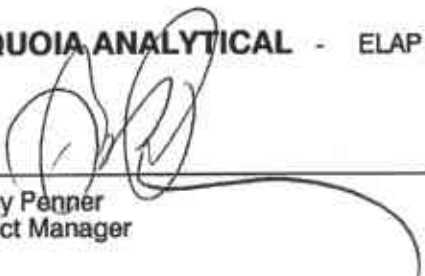
QC Batch Number: GC070397BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	170
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:		C10-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	89

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 Pleasanton/970625-M1
Sample Descript: S-9
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9706F11-08

Sampled: 06/25/97
Received: 06/25/97
Analyzed: 07/03/97
Reported: 07/18/97

Attention: Fran Thie

GC Batch Number: GC070397BTEX18A
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	2.8
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 Pleasanton/970625-M1 Sample Descript: S-10 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706F11-09	Sampled: 06/25/97 Received: 06/25/97 Analyzed: 07/03/97 Reported: 07/18/97
--	---	---

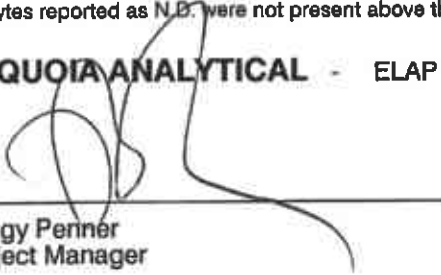
QC Batch Number: GC070397BTEX18A
Instrument ID: GCHP18

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	2.8
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	84

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 Attention: Fran Thie	Client Proj. ID: Shell Pleasanton/970625-M1 Sample Descript: EB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706F11-10	Sampled: 06/25/97 Received: 06/25/97 Analyzed: 07/03/97 Reported: 07/18/97
--	---	---

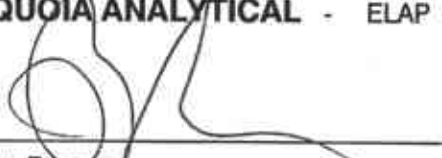
QC Batch Number: GC070397BTEX18A
Instrument ID: GCHP18

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	86

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 Pleasanton/970625-M1 Sample Descript: DUP Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706F11-11	Sampled: 06/25/97 Received: 06/25/97 Analyzed: 07/03/97 Reported: 07/18/97
Attention: Fran Thie		

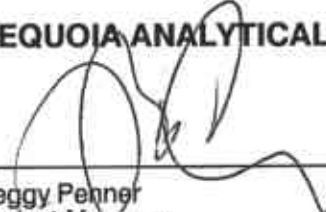
QC Batch Number: GC070397BTEX18A
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	130
Methyl t-Butyl Ether	2.5	21
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	71

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

Client Project ID: Shell Pleasanton / 970625-M1
Matrix: Liquid

Work Order #: 9706F11 -01-02, 05, 07-11

Reported: Jul 22, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC070197BTEX18A	GC070197BTEX18A	GC070197BTEX18A	GC070197BTEX18A	GC070197BTEX18A
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 #:	9706E2020	9706E2020	9706E2020	9706E2020	9706E2020
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/3/97	7/3/97	7/3/97	7/3/97	7/3/97
Analyzed Date:	7/3/97	7/3/97	7/3/97	7/3/97	7/3/97
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:	9.9	10	9.8	33	60
MS % Recovery:	99	100	98	110	100
Dup. Result:	9.7	9.9	9.8	32	60
MSD % Recov.:	97	99	98	107	100
RPD:	2.0	1.0	0.0	3.1	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK070397	BLK070397	BLK070397	BLK070397	BLK070397
Prepared Date:	7/3/97	7/3/97	7/3/97	7/3/97	7/3/97
Analyzed Date:	7/3/97	7/3/97	7/3/97	7/3/97	7/3/97
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:	10	10	10	34	56
LCS % Recov.:	100	100	100	113	93

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					

Please Note:

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SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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

9706F11.BLA <1>





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

Client Project ID: Shell Pleasanton / 970625-M1
Matrix: Liquid

Work Order #: 9706F11-03, 06

Reported: Jul 22, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC070897BTEX07A	GC070897BTEX07A	GC070897BTEX07A	GC070897BTEX07A	GC070897BTEX07A
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 #:	9706E6603	9706E6603	9706E6603	9706E6603	9706E6603
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
Analyzed Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
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:	10	10	11	32	68
MS % Recovery:	100	100	110	107	113
Dup. Result:	9.7	9.7	10	30	64
MSD % Recov.:	97	97	100	100	107
RPD:	3.0	3.0	9.5	6.5	6.1
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK070897	BLK070897	BLK070897	BLK070897	BLK070397
Prepared Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
Analyzed Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
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:	9.9	10	10	31	66
LCS % Recov.:	99	100	100	103	110

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
Peggy Penner
Project Manager

Please Note:

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

Client Project ID: Shell Pleasanton / 970625-M1
Matrix: Liquid

Work Order #: 9706F11-04

Reported: Jul 22, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC070797BTEX01A	GC070797BTEX01A	GC070797BTEX01A	GC070797BTEX01A	GC070797BTEX01A
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 #:	9706E6602	9706E6602	9706E6602	9706E6602	9706E6602
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Analyzed Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.3	9.2	9.4	28	72
MS % Recovery:	93	92	94	93	120
Dup. Result:	9.6	9.5	9.8	29	76
MSD % Recov.:	96	95	98	97	127
RPD:	3.2	3.2	4.2	3.5	5.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK070797	BLK070797	BLK070797	BLK070797	BLK070397
Prepared Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Analyzed Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.5	9.3	9.6	28	73
LCS % Recov.:	95	93	96	93	122

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					

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SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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

9706F11.BLA <3>



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

Client Proj. ID: Shell Pleasanton/970625-M1

Received: 06/25/97

Lab Proj. ID: 9706F11

Reported: 07/18/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 10 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager



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

Client Project ID: Shell Pleasanton / 970625-M1
Matrix: Liquid

Work Order #: 9706F11-03

Reported: Jul 22, 1997

QUALITY CONTROL DATA REPORT

Analyte: MTBE

QC Batch#: MS0714978260F3A
Analy. Method: EPA 8260
Prep. Method: N.A.

Analyst: L. Zhu
MS/MSD #: 970742318
Sample Conc.: N.D.
Prepared Date: 7/14/97
Analyzed Date: 7/14/97
Instrument I.D.#: F3
Conc. Spiked: 50 µg/L

Result: 47
MS % Recovery: 94

Dup. Result: 46
MSD % Recov.: 92

RPD: 2.2
RPD Limit: 0-25

LCS #: VDB071497

Prepared Date: 7/14/97
Analyzed Date: 7/14/97
Instrument I.D.#: F3
Conc. Spiked: 50 µg/L

LCS Result: 50
LCS % Recov.: 100

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

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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

9706F11.BLA < 4 >