

September 17, 1998

Scott Seery
Alameda County Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502-6577



98 SEP 24 AM 9:29

Re: **Second Quarter 1998 Monitoring Report**
Shell-branded Service Station
1784 150th Avenue
San Leandro, California
WIC #204-6852-1404
Cambria #24-314-298

Dear Mr. Seery:

On behalf of Equilon Enterprises LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this ground water monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

SECOND QUARTER 1998 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California checked for separate-phase hydrocarbons (SPH) and gauged and sampled the site wells. Cambria calculated ground water elevations (Table 1), compiled the analytical results (Table 2), and prepared a ground water elevation contour map (Figure 1). The potentiometric surface is relatively flat this quarter. *When?*

Work Plan Addendum: Cambria submitted a Work Plan Addendum dated May 1, 1998 which was approved by the Alameda County Department of Environmental Health (ACDEH) in a May 18, 1998 letter to Shell Oil Products Company. The ACDEH letter also requested a soil vapor survey work plan be submitted. **Per our phone conversation on September 14, 1998, Cambria is attempting to expedite the scope of work described in work plan addendum and will be submitting the soil vapor survey work plan by the end of the third quarter 1998.**

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

**Cambria
Environmental
Technology, Inc.**

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

ANTICIPATED THIRD QUARTER 1998 ACTIVITIES

Ground Water Monitoring: Blaine will measure and remove any SPH and gauge and sample the site wells. Cambria will tabulate the data and prepare a monitoring report.

Soil Vapor Survey Work Plan: Cambria will submit a soil vapor survey work plan as requested in the May 18, 1998 ACDEH letter to Shell. *shen?*



Work Plan Addendum: Cambria is currently securing a right of entry agreement with the residential property owners to the southwest of the site. Upon securing an executed right of entry agreement, we will conduct the soil and ground water investigation as described in our May 1, 1998 work plan addendum.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Darryk Ataide
FOR

Darryk Ataide
Project Environmental Scientist

Diane M. Lundquist
Diane M. Lundquist, P.E.
Principal Engineer.



Attachment: A - Blaine Ground Water Monitoring Report

cc: Karen Petryna, Equiva Services LLC, P.O. Box 8080 Martinez, California 94553

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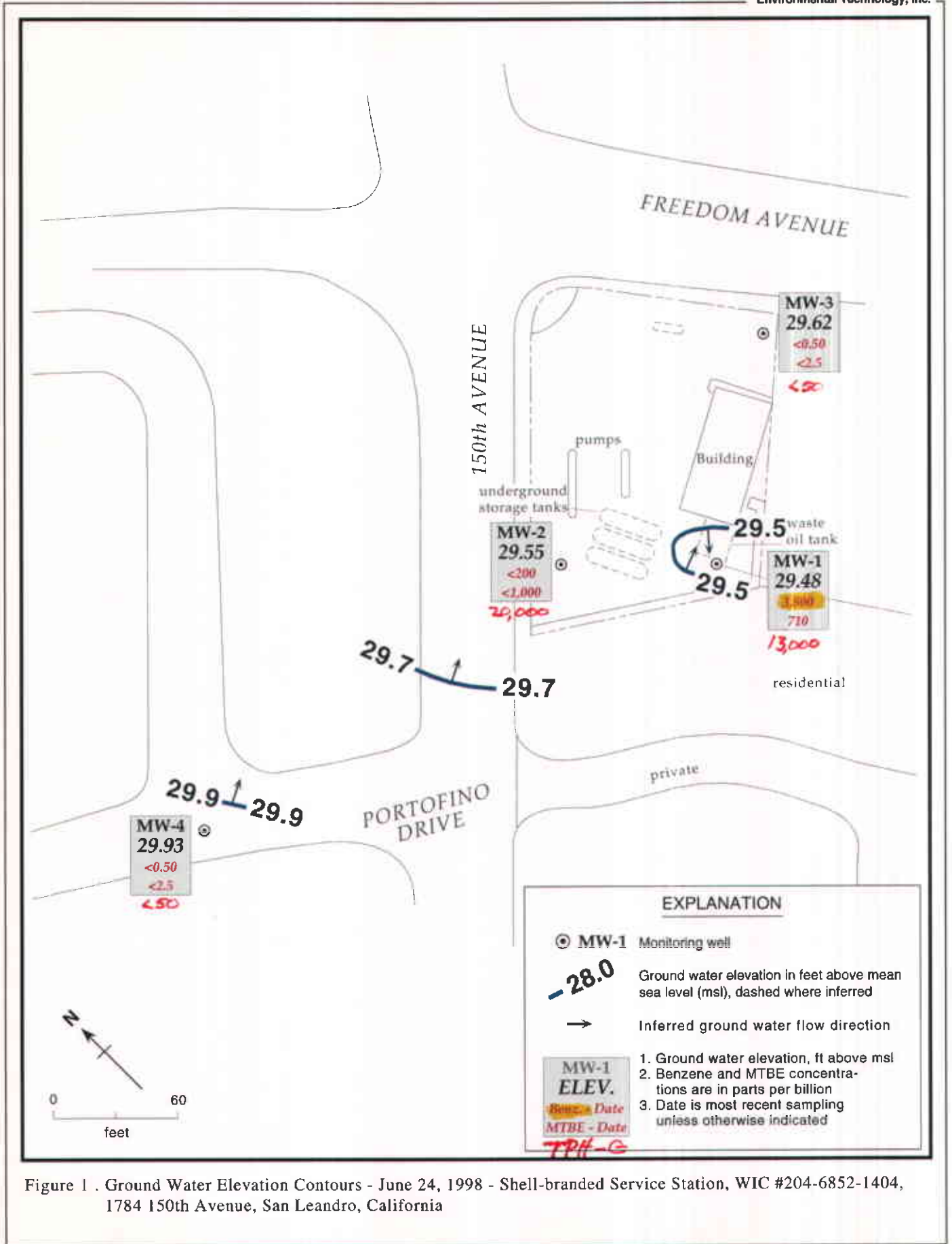


Table 1. Ground Water Elevations – Shell-branded Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft below TOC)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation ^a (ft above msl)
MW-1	03/08/90	49.13	25.29	---	23.84
	06/12/90		25.85	---	23.28
	09/13/90		27.49	---	21.64
	12/18/90		27.41	---	21.72
	03/07/91		25.79	---	23.34
	06/07/91		25.64	---	23.49
	09/17/91		27.54	---	21.59
	12/09/91		27.81	---	21.32
	02/13/92		25.57	---	23.56
	02/24/92		22.83	---	26.30
	02/27/92		23.09	---	26.04
	03/01/92		23.26	---	25.87
	06/03/92		24.64	---	24.49
	09/01/92		26.74	---	22.39
	10/06/92		27.18	---	21.95
	11/11/92		27.99	---	21.14
	12/04/92		27.14	---	21.99
	01/22/93		20.09	---	29.04
	02/10/93		24.26	---	24.87
	03/03/93		20.50	---	28.63
	05/11/93		21.70	---	27.43
	06/17/93		22.42	---	26.71
	09/10/93		24.11	---	25.02
	12/13/93		23.73	---	25.40
	03/03/94		22.08	---	27.05
	06/06/94		23.10	---	26.03
	09/12/94		25.19	---	23.94
	12/19/94		23.06	---	26.07
	02/28/95		20.90	---	28.23
	03/24/95		18.28	---	30.85
	06/26/95		20.40	---	28.73
	09/13/95		22.62	---	26.51
	12/19/95		22.10	---	27.03
	03/07/96		18.83	0.05	30.34
	06/28/96		21.46	---	27.67
	09/26/96		23.57	0.01	25.57
	12/10/96		21.43	---	27.70
	03/10/97		20.08	---	29.05
	06/30/97		21.68	---	27.45
	09/12/97		21.78	---	27.35
12/18/97	20.78	---	28.35		
02/02/98	19.65	---	29.48		
	06/24/98		19.65	---	29.48
MW-2	02/13/92	45.63	22.22	---	23.61
	02/24/92		19.61	---	26.22

Table 1. Ground Water Elevations – Shell-branded Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft below TOC)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation ^a (ft above msl)
	02/27/92		19.92	---	25.91
	03/01/92		21.11	---	24.72
	06/03/92		21.58	---	24.25
	09/01/92		23.46	---	22.37
	10/06/92		23.99	---	21.84
	11/11/92		24.25	---	21.58
	12/04/92		23.89	---	21.94
	01/22/93		17.03	---	28.80
	02/10/93		18.08	---	27.75
	03/03/93		17.28	---	28.55
	05/11/93		18.41	---	27.42
	06/17/93		19.06	---	26.77
	09/10/93		20.88	---	24.95
	12/13/93		20.42	---	25.41
	03/03/94		18.48	---	27.35
	06/06/94		20.26	---	25.57
	09/12/94		21.80	---	24.03
	12/19/94		19.66	---	26.17
	02/28/95		17.51	---	28.32
	03/24/95		14.88	---	30.95
	06/26/95		17.58	---	28.25
	09/13/95		19.28	---	26.55
	12/19/95		18.61	---	27.22
	03/06/96		15.41	---	30.42
	06/28/96		17.84	---	27.99
	09/26/96		19.60	---	26.23
	12/10/96		18.15	0.25	27.48
	03/10/97		17.02	0.20	28.77
	06/30/97		19.42	---	26.21
	09/12/97		19.40	---	26.23
	12/18/97		17.56	---	28.07
	02/02/98		18.14	---	27.49
	06/24/98		16.08	---	29.55
MW-3	02/13/92	51.97	27.97	---	24.00
	02/24/92		25.60	---	26.37
	02/27/92		25.88	---	26.09
	03/01/92		26.00	---	25.97
	06/03/92		27.70	---	24.27
	09/01/92		29.46	---	22.51
	10/06/92		30.01	---	21.96
	11/11/92		30.26	---	21.71
	12/04/92		29.93	---	22.04
	01/22/93		22.76	---	29.21

Table 1. Ground Water Elevations – Shell-branded Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft below TOC)	Separate-Phase Hydrocarbon Thickness (ft)	Ground Water Elevation ^a (ft above msl)
	02/10/93		21.40	---	30.57
	03/03/93		23.08	---	28.89
	05/11/93		24.51	---	27.46
	06/17/93		25.21	---	26.76
	09/10/93		26.95	---	25.02
	12/13/93		26.52	---	25.45
	03/03/94		24.50	---	27.47
	06/06/94		26.33	---	25.64
	09/12/94		27.98	---	23.99
	12/19/94		25.63	---	26.34
	02/28/95		23.45	---	28.52
	03/24/95		21.07	---	30.90
	06/26/95		23.64	---	28.33
	09/13/95		25.40	---	26.57
	12/19/95		24.53	---	27.44
	03/07/96		21.59	0.04	30.41
	06/28/96		23.95	---	28.02
	09/26/96		25.89	---	26.08
	12/10/96		24.22	---	27.75
	03/10/97		23.05	---	28.92
	06/30/97		24.34	---	27.63
	09/12/97		24.47	---	27.50
	12/18/97		23.54	---	28.43
	02/02/98		21.92	---	30.05
	06/24/98		22.35	---	29.62
MW-4	03/24/95	40.51	9.16	---	31.35
	06/26/95		12.06	---	28.45
	09/13/95		13.90	---	26.61
	12/19/95		12.90	---	27.61
	03/06/96		9.63	---	30.88
	06/28/96		12.30	---	28.21
	09/26/96		14.12	---	26.39
	12/10/96		12.31	---	28.20
	03/10/97		11.34	---	29.17
	06/30/97		13.80	---	26.71
	09/12/97		13.99	---	26.52
	12/18/97		12.02	---	28.49
	02/02/98		11.23	---	29.28
	06/24/98		10.58	---	29.93

**Table 1. Ground Water Elevations – Shell-branded Service Station WIC# 204-6852-1404,
1784 150th Avenue, San Leandro, California (continued)**

Notes and Abbreviations:

- a = When separate-phase hydrocarbons are present, ground water elevation is corrected using the relation:
Ground water elevation = top of casing - depth to water + (0.8 x separate phase hydrocarbon thickness)
- ft = Feet
- msl = Mean sea level
- TOC = Top of casing

Table 2. Ground Water Analytical Results – Shell-branded Service Station WIC# 204-6852-1404, 1784 150th Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	B	T	E	X	1,2-DCA	MTBE	DO (mg/L)
MW-1	03/08/90	25.29	510	120 ^a	<10,000	1.5	0.8	<0.5	5.4	12	---	---
	06/12/90	25.85	390	100 ^a	<10,000	86	1.3	0.7	6.2	<0.4	---	---
	09/13/90	27.49	100	130 ^a	<10,000	56	0.75	2.4	2.8	<0.4 ^b	---	---
	12/18/90	27.41	480	<50 ^a	<10,000	54	1.7	3.3	3.7	5.3	---	---
	03/07/91	25.79	80	<50 ^a	---	266	<0.5	1.2	<1.5	6.7	---	---
	06/07/91	25.64	510	<50 ^a	---	130	3.8	6.1	11	7.9	---	---
	09/17/91	27.54	330	120 ^{a,c}	---	67	<0.5	3	2.2	6	---	---
	12/09/91	27.81	140 ^d	80	---	<0.5	<0.5	1.7	4.7	5.4	---	---
	03/01/92	23.36	<50	<50	---	<0.5	<0.5	<0.5	<0.5	3	---	---
	06/03/92	24.64	1,500	---	---	520	180	72	230	3	---	---
	09/01/92	26.74	130	---	---	16	1.4	1.8	3.4	1.3 ^e	---	---
	12/04/92	27.14	150	---	---	360	0.7	1.8	2.1	3.3	---	---
	03/03/93	20.50	<50	---	---	1.5	<0.5	<0.5	<0.5	0.76	---	---
	06/17/93	22.42	1,600	---	---	340	120	120	440	3	---	---
	09/10/93	24.11	2,600	---	---	670	340	310	730	2.3	---	---
	12/13/93	23.73	11,000	---	---	470	320	380	2,300	6.3	---	---
	03/03/94	22.08	16,000	---	---	700	690	480	3,200	---	---	---
	06/06/94	23.10	7,500	---	---	420	280	200	1,000	3.1	---	---
	09/12/94	25.19	1,200	---	---	110	21	3.3	420	2.6	---	---
	12/19/94	23.06	4,600	---	---	470	330	230	1,300	3.7	---	---
	02/28/95	20.90	500	---	---	59	32	6.8	68	5.0	---	---
	06/26/95	20.40	5,500	---	---	740	420	300	1,800	8.6	---	---
	09/13/95	22.62	84,000	---	---	1,900	2,600	3,000	14,000	12	---	---
	12/19/95	22.10	80,000	---	---	660	350	170	18,000	<0.4	---	---
	03/06/96 ^{SPH}	---	---	---	---	---	---	---	---	---	---	---
	06/28/96	21.46	270,000	---	---	2,800	820	1,000	16,000	---	<0.5	---
	06/28/96 ^{dup}	21.46	790,000	---	---	2,200	780	1,000	13,000	---	15,000	---
	09/26/96	23.57	29,000	---	---	1,100	260	270	1,900	9.8	<1,000	---
	09/26/96 ^{dup}	23.57	25,000	---	---	1,200	320	240	1,900	11	<1,000	---
	12/10/96	21.43	13,000	---	---	510	240	230	1,200	16	100	1.0

Table 2. Ground Water Analytical Results – Shell-branded Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	(Concentrations in µg/L)						DO (mg/L)
						B	T	E	X	1,2-DCA	MTBE	
	12/10/96 ^{dup}	21.43	8,400	---	---	420	130	140	680	17	81	1.0
	03/10/97	20.08	4,200	---	---	13	8.8	16	74	12	<12	2.0
	03/10/97 ^{dup}	20.08	5,100	---	---	12	8.9	17	79	11	<25	2.0
	06/30/97	21.68	5,700	---	---	320	120	140	700	21	47	1.6
	06/30/97 ^{dup}	21.68	5,300	---	---	300	95	120	580	22	45	1.6
	09/12/97	21.78	6,300	---	---	120	26	82	260	12	30	2.1
	12/18/97 ^l	20.78	---	---	---	---	---	---	---	---	---	1.3
	02/02/98	19.65	84	---	---	5.1	<0.50	<0.50	2.1	20	2.5	2.0
	06/24/98	19.65	13,000	---	---	3,000	260	410	1,400	30	<250	2.5
	06/24/98^{dup}	19.65	12,000	---	---	3,800	250	47	1,400	28	710	2.5
MW-2	02/24/92	19.61	17,000	2,700 ^c	---	6,200	1,600	550	1,900	200	---	---
	03/01/92	21.11	86,000	1,000 ^c	---	30,000	34,000	2,300	16,000	82	---	---
	06/03/92	21.58	87,000	---	---	28,000	18,000	2,000	10,000	<50	---	---
	09/01/92	23.46	110,000	---	---	21,000	13,000	1,900	7,800	83	---	---
	12/04/92	23.89	42,000	---	---	15,000	2,400	960	2,900	100	---	---
	03/03/93	17.28	160,000	---	---	36,000	3,800	32,000	21,000	7.7	---	---
	03/03/93	17.28	150,000	---	---	31,000	3,100	20,000	14,000	16	---	---
	06/17/93	19.06	65,000	---	---	34,000	15,000	3,200	11,000	37	---	---
	06/17/93	19.06	62,000	---	---	28,000	14,000	2,700	10,000	36	---	---
	09/10/93 ^f	20.88	72,000	---	---	24,000	16,000	2,300	11,000	28.0	---	---
	09/10/93 ^{dup, f}	20.88	71,000	---	---	23,000	15,000	2,300	10,000	27.0	---	---
	12/13/93	20.42	19,000	---	---	5,400	4,900	680	3,100	<0.5	---	---
	12/13/93 ^{dup}	20.42	17,000	---	---	6,200	5,500	720	3,500	3.4	---	---
	03/03/94	18.48	110,000	---	---	21,000	24,000	2000	13,000	---	---	---
	03/03/94 ^{dup}	18.48	93,000	---	---	19,000	22,000	1,800	12,000	---	---	---
	06/06/94	20.26	10,000	---	---	1,900	3,300	2,500	13,000	5.8	---	---
	06/06/94 ^{dup}	20.26	99,000	---	---	9,900	12,000	2,400	12,000	5.7	---	---
	09/12/94	21.80	160,000	---	---	22,000	33,000	3,400	23,000	<0.4	---	---

Table 2. Ground Water Analytical Results – Shell-branded Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	(Concentrations in µg/L)					1,2-DCA	MTBE	DO (mg/L)
						B	T	E	X				
	09/12/94 ^{dup}	21.80	150,000	---	---	23,000	34,000	3,500	23,000	<0.4	---	---	
	12/19/94	19.66	80,000	---	---	17,000	16,000	2,300	14,000	<0.4	---	---	
	12/19/94 ^{dup}	19.66	100,000	---	---	28,000	26,000	3,400	20,000	<0.4	---	---	
	02/28/95	17.51	100,000	---	---	24,000	18,000	2,300	17,000	<0.4	---	---	
	02/28/95 ^{dup}	17.51	100,000	---	---	31,000	21,000	3,200	18,000	<0.4	---	---	
	06/26/95	17.58	45,000	---	---	14,000	12,000	1,500	7,500	3.4	---	---	
	06/26/95 ^{dup}	17.58	68,000	---	---	13,000	11,000	1,800	7,700	---	---	---	
	09/13/95	19.28	110,000	---	---	19,000	19,000	2,800	15,000	7.2	---	---	
	09/13/95 ^{dup}	19.28	120,000	---	---	20,000	20,000	2,900	15,000	<0.4	---	---	
	12/19/95	18.61	180,000	---	---	18,000	29,000	4,100	24,000	<0.4	---	---	
	12/19/95 ^{dup}	18.61	160,000	---	---	18,000	28,000	3,800	24,000	<0.4	---	---	
	03/06/96	15.41	120,000	---	---	28,000	15,000	3,900	17,000	<20	---	---	
	06/28/96	17.84	96,000	---	---	20,000	20,000	4,100	22,000	---	2,400	---	
	09/26/96	19.60	87,000	---	---	7,600	11,000	2,500	15,000	56**	990*	---	
	12/10/96 ^{SPH}	18.15	---	---	---	---	---	---	---	---	---	---	
	03/10/97 ^{SPH}	17.02	---	---	---	---	---	---	---	---	---	---	
	06/30/97	19.42	57,000	---	---	3,600	4,600	1,300	9,700	<50	2,300	2.4	
	09/12/97	19.40	88,000	---	---	7,800	8,800	2,600	16,000	<25	3,200	1.7	
	09/12/97 ^{dup}	19.40	90,000	---	---	8,300	9,400	2,700	17,000	<25	3,400	1.7	
	12/18/97 ¹	17.56	---	---	---	---	---	---	---	---	---	1.3	
	02/02/98	18.14	<50	---	---	0.60	1.9	0.93	6.0	<0.50	9.3	2.0	
	02/02/98 ^{dup}	18.14	56	---	---	1.0	2.8	1.4	9.3	<0.50	13	2.0	
	06/24/98	16.08	20,000	---	---	<200	620	560	4,500	1.7	<1,000	2.4	
MW-3	02/24/92	25.60	4,500	1,300 ^c	---	97	<5	78	18	9.1	---	---	
	03/01/92	26.00	2,200	440	---	69	<0.5	<0.5	<0.5	13	---	---	
	06/03/92	27.70	4,100	---	---	13	72	44	65	16	---	---	
	09/01/92	29.46	1,900	---	---	20	6.8	5.5	<5	19	---	---	
	09/01/92 ^{dup}	29.46	1,900	---	---	21	6.6	3.4	<5	21	---	---	

Table 2. Ground Water Analytical Results – Shell-branded Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	B	T	E	X	1,2-DCA	MTBE	DO (mg/L)
	12/04/92	29.93	2,400	---	---	8.2	<5	<5	<5	16	---	---
	12/04/92 ^{dup}	29.93	2,100	---	---	11	<0.5	5.7	<0.5	18	---	---
	03/03/93	23.08	5,100	---	---	63	61	75	150	3.3	---	---
	06/17/93	25.21	4,000	---	---	94	140	82	150	23	---	---
	09/10/93	26.95	3,200	---	---	140	12.5	12.5	12.5	20.0	---	---
	12/13/93	26.52	6,200	---	---	<12.5	<12.5	<12.5	<12.5	13	---	---
	03/03/94	24.50	4,500	---	---	73	<5	<5	<5	---	---	---
	06/06/94	26.33	3,200	---	---	<0.5	<0.5	3.1	<0.5	16	---	---
	09/12/94	27.98	3,900	---	---	<0.5	<0.5	9.6	4.1	7.8	---	---
	12/19/94	25.63	2,400	---	---	21	22	4.2	2.6	25	---	---
	02/28/95	23.45	4,000	---	---	58	<0.5	7.1	3.5	18	---	---
	06/26/95	23.64	3,900	---	---	8.1	<0.5	12	2.4	15	---	---
	09/13/95	25.40	4,100	---	---	58	5.5	5.5	<0.5	6.7	---	---
	12/19/95	24.53	3,600	---	---	<0.5	4.3	2.1	1.1	6.6	---	---
	03/06/96 ^{SPH}	---	---	---	---	---	---	---	---	---	---	---
	06/28/96	23.95	2,400	---	---	55	<0.5	<0.5	11	---	120	---
	09/26/96	25.89	2,500	---	---	<5.0	<5.0	<5.0	<5.0	25	160	---
	12/10/96	24.22	1,600	---	---	28	4.2	<2.0	3.9	34	110	0.8
	03/10/97	23.05	130	---	---	<0.50	<0.50	<0.50	1.4	3.5	4.2	2.8
	06/30/97	24.34	1,200	---	---	21	2.3	<2.0	<2.0	97	69	2.3
	09/12/97	24.47	440	---	---	8.3	0.82	<0.50	1.9	5.0	3.4	1.9
	12/18/97 ¹	23.54	---	---	---	---	---	---	---	---	---	0.8
	02/02/98	21.92	400	---	---	9.3	0.68	<0.50	<0.50	0.85	9.0	1.5
	06/24/98	22.35	<50	---	---	<0.50	<0.50	<0.50	<0.50	13	<2.5	1.9
MW-4	03/24/95	9.16	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4	---	---
	06/26/95	12.06	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4	---	---
	09/13/95	13.90	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4	---	---
	12/19/95	12.90	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4	---	---

Table 2. Ground Water Analytical Results – Shell-branded Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	B	T	E	X	1,2-DCA	MTBE	DO (mg/L)
	03/06/96	9.63	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.4	---	---
	06/28/96	12.30	40	---	---	<0.5	0.59	0.97	3.8	---	26	---
	09/26/96	14.12	<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	---
	12/10/96 ⁱ	12.31	<50	---	---	<0.5	<0.5	<0.5	<0.5	---	<2.5	1.2
	03/10/97 ^j	11.34	<50	---	---	<0.50	<0.50	<0.50	<0.50	---	<2.5	---
	06/30/97 ^k	13.80	<50	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	1.9
	09/12/97	13.99	<50	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	1.7
	12/18/97 ^l	12.02	---	---	---	---	---	---	---	---	---	1.8
	02/02/98	11.23	<50	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	1.0
	06/24/98	10.58	<50	---	---	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	1.9
Trip	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
Blank	06/12/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/18/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	03/07/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/07/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	09/17/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/09/91		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	02/24/92		<50	---	---	<0.5	2.5	0.6	2.2	---	---	---
	03/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/03/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	09/01/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
	12/04/92		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 ^g	---	---
	03/03/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
	06/17/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
	09/10/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/13/93		<50	---	---	<0.5	<0.5	<0.5	<0.5	<0.5 ^h	---	---
	03/03/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/06/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---

Table 2. Ground Water Analytical Results – Shell-branded Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	POG	(Concentrations in µg/L)					DO (mg/L)	
						B	T	E	X	1,2-DCA		MTBE
	09/12/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/19/94		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	02/28/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	03/24/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	06/26/95		<50	---	---	4.1	3.0	<0.5	1.5	---	---	---
	09/13/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/19/95		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
Bailer	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
Blank	09/01/92		<50	---	---	<0.5	0.7	<0.5	<0.5	<0.5	---	---
	12/04/92 ^B		60	---	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MCLs			NE	NE	NE	1	150	700	1,750	0.5	NE	

Table 2. Ground Water Analytical Results – Shell-branded Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, 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
 POG = Petroleum oil and grease by American Public Health Association Standard Method 503E or 5520F
 MTBE = Methyl tert-butyl ether by EPA Method 8020
 B = Benzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 X = Xylenes by EPA Method 8020
 1,2-DCA = 1,2-Dichloroethane by EPA Method 8010.
 DO = Dissolved oxygen
 µg/L = Micrograms per liter
 mg/L = Milligrams per liter
 dup = Duplicate sample
 SPH = Separate-phase hydrocarbons present in well; not sampled
 MCLs = California primary maximum contaminant levels for drinking water (22 CCR 64444)
 NE = MCLs not established

Notes:

- a = No total petroleum hydrocarbons as motor oil detected above modified EPA Method 8015 detection limit of 500 µg/L
- b = Tetrachloroethene (PCE) detected at 24 µg/L by EPA Method 8010; MCL for PCE is 5 µg/L
- c = Result is due to hydrocarbon compounds lighter than diesel
- d = Result due to a non-gasoline hydrocarbon
- e = In the matrix spike/matrix spike duplicate of sample MW-1, the RPD for Freon 113 and 1,3-dichlorobenzene was greater than 25%
- f = The MW-2 and duplicate samples each contained 1.6 µg/L of methylene chloride which is within normal laboratory background levels
- g = The trip and bailer blank samples contained 14 and 10 mg/L 1,3-dichlorobenzene, respectively
- h = 1.4 mg/L Chloroethene detected in equipment blank
- i = PCE detected at 0.50 µg/L by EPA Method 8010 and Trichloroethene (TCE) detected at 0.57 µg/L by EPA Method 8010; MCL for TCE is 5 µg/L
- j = TCE detected at 0.52 µg/L by EPA Method 8010
- k = TCE detected at 0.55 µg/L by EPA Method 8010
- l = Samples not analyzed due to laboratory oversight
- * = MTBE confirmed by EPA Method 8260
- ** = Result should be considered estimated due to being reported under the detection limit of 125 µg/L
- = Not analyzed/Not available
- <n = Below detection limit of n µg/L

ATTACHMENT A

Blaine Ground Water Monitoring Report

BLAINE
TECH SERVICES INC.



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

July 30, 1998

Equilon Enterprises, L.L.D.
108 Cutting Blvd
Richmond, CA 94804

Attn: Karen Petryna

Shell WIC #204-6852-1404
1784 150th Avenue
San Leandro, California

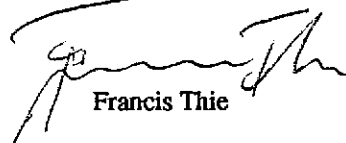
2nd Quarter 1998

Groundwater Monitoring Report 980624-H-2

Blaine Tech Services, Inc. performs environmental monitoring and documentation as an independent third party. Copies of our Monitoring 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 Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608
Attn: Maureen Feineman

(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)
MW-1*	06/24/98	TOC	ODOR/SHEEN	NONE	--	--	19.65	44.68
MW-2	06/24/98	TOC	ODOR/SHEEN	NONE	--	--	16.08	44.35
MW-3	06/24/98	TOC	ODOR/SHEEN	NONE	--	--	22.35	41.73
MW-4	06/24/98	TOC	--	NONE	--	--	10.58	24.85

* Sample DUP was a duplicate sample taken from well MW-1.



SHELL OIL COMPANY
 RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 980624-112

Date: _____
 Page 1 of 1

Site Address: 1784 150th Ave., San Leandro, CA

WICH#: 204-6852-1404

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: *Morgan Hargrave*

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/MTBE	Asbestos	Container Size	Preparation Used	Composite Y/N
					8010				

LAB: SEO

CHECK ONE (1) BOX ONLY	CT/DI	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 Classfy/Disposal <input type="checkbox"/>	4442	16 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: Notify Lab as soon as possible of 24/48 hrs. TAT.

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/MTBE	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
1 MW-1	6/24			X		6						X	X						
2 MW-2																			
3 MW-3																			
4 MW-4																			
5 EB																			
6 DUP																			

Requested By (signature): *[Signature]*
 Printed Name: Morgan Hargrave
 Date: 6/25/98
 Time: 11:30

Received (signature): *[Signature]*
 Printed Name: JOHN FRILIC
 Date: 6/25/98
 Time: _____

Received (signature): *[Signature]*
 Printed Name: Hura Demare
 Date: 6/25/98
 Time: 1:24

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
1455 McDowell Blvd. North, Ste. D

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Sacramento, CA 95834
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(707) 792-1865

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FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

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

Project: Shell 1784 150th Ave.

Enclosed are the results from samples received at Sequoia Analytical on June 25, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9806G77 -01	LIQUID, MW-1	06/24/98	Halogen. Volatiles, Water
9806G77 -01	LIQUID, MW-1	06/24/98	TPPH/BTEX/MTBE (Concord)
9806G77 -02	LIQUID, MW-2	06/24/98	Halogen. Volatiles, Water
9806G77 -02	LIQUID, MW-2	06/24/98	TPPH/BTEX/MTBE (Concord)
9806G77 -03	LIQUID, MW-3	06/24/98	Halogen. Volatiles, Water
9806G77 -03	LIQUID, MW-3	06/24/98	TPPH/BTEX/MTBE (Concord)
9806G77 -04	LIQUID, MW-4	06/24/98	Halogen. Volatiles, Water
9806G77 -04	LIQUID, MW-4	06/24/98	TPPH/BTEX/MTBE (Concord)
9806G77 -05	LIQUID, EB	06/24/98	Halogen. Volatiles, Water
9806G77 -05	LIQUID, EB	06/24/98	TPPH/BTEX/MTBE (Concord)
9806G77 -06	LIQUID, DUP	06/24/98	Halogen. Volatiles, Water
9806G77 -06	LIQUID, DUP	06/24/98	TPPH/BTEX/MTBE (Concord)

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





Sequoia Analytical

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9806G77-01	Sampled: 06/24/98 Received: 06/25/98 Analyzed: 07/07/98 Reported: 07/14/98
--	--	---

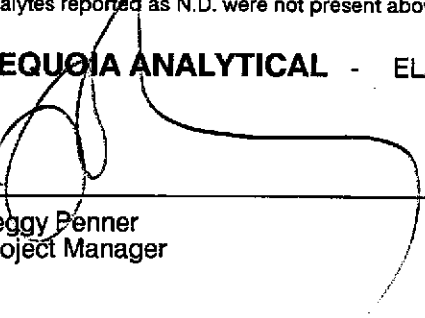
GC Batch Number: GC070698OVOA09B
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	30
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	88

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Sequoia
Analytical

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FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Description: XXXXXX Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806G77-01	Sampled: 06/24/98 Received: 06/25/98 Analyzed: 07/08/98 Reported: 07/14/98
--	--	---

QC Batch Number: GC070898BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	12000
Methyl t-Butyl Ether	250	N.D.
Benzene	50	3000
Toluene	50	250
Ethyl Benzene	50	400
Xylenes (Total)	50	1400
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Renner
Project Manager





Sequoia
Analytical

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FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Descript: MW-2 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9806G77-02	Sampled: 06/24/98 Received: 06/25/98 Analyzed: 07/07/98 Reported: 07/14/98
--	--	---

GC Batch Number: GC070798OV0A09A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	1.2	N.D.
Bromoform	1.2	N.D.
Bromomethane	2.5	N.D.
Carbon Tetrachloride	1.2	N.D.
Chlorobenzene	1.2	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	1.2	N.D.
Chloromethane	2.5	N.D.
Dibromochloromethane	1.2	N.D.
1,2-Dichlorobenzene	1.2	N.D.
1,3-Dichlorobenzene	1.2	N.D.
1,4-Dichlorobenzene	1.2	N.D.
1,1-Dichloroethane	1.2	N.D.
1,2-Dichloroethane	1.2	N.D.
1,1-Dichloroethene	1.2	N.D.
cis-1,2-Dichloroethene	1.2	N.D.
trans-1,2-Dichloroethene	1.2	N.D.
1,2-Dichloropropane	1.2	N.D.
cis-1,3-Dichloropropene	1.2	N.D.
trans-1,3-Dichloropropene	1.2	N.D.
Methylene chloride	1.2	N.D.
1,1,2,2-Tetrachloroethane	1.2	N.D.
Tetrachloroethene	1.2	N.D.
1,1,1-Trichloroethane	1.2	N.D.
1,1,2-Trichloroethane	1.2	N.D.
Trichloroethene	1.2	N.D.
Trichlorofluoromethane	1.2	N.D.
Vinyl chloride	2.5	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	92

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Descript: XXXX Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806G77-02	Sampled: 06/24/98 Received: 06/25/98 Analyzed: 07/08/98 Reported: 07/14/98
Attention: Fran Thie		

QC Batch Number: GC070898BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	20000	20000
Methyl t-Butyl Ether	1000	N.D.
Benzene	200	N.D.
Toluene	200	620
Ethyl Benzene	200	580
Xylenes (Total)	200	4500
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	113

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 1784 150th Ave.
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9806G77-03

Sampled: 06/24/98
Received: 06/25/98
Analyzed: 07/07/98
Reported: 07/14/98

Attention: Fran Thie

JC Batch Number: GC070798OVOA09A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	1.0
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	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





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Descript: XXXX Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806G77-03	Sampled: 06/24/98 Received: 06/25/98 Analyzed: 07/08/98 Reported: 07/14/98
Attention: Fran Thie		

QC Batch Number: GC070898BTEX02A
Instrument ID: GCHP2

Total Purgeable 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	111

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784-150th Ave. Sample Descript: MW-4 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9806G77-04	Sampled: 06/24/98 Received: 06/25/98 Analyzed: 07/07/98 Reported: 07/14/98
--	--	---

QC Batch Number: GC070798OVOA09A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	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





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806G77-04	Sampled: 06/24/98 Received: 06/25/98 Analyzed: 07/08/98 Reported: 07/14/98
Attention: Fran Thie		

QC Batch Number: GC070898BTEX02A
Instrument ID: GCHP2

Total Purgeable 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	114

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 1784 150th Ave.
Sample Descript: EB
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9806G77-05

Sampled: 06/24/98
Received: 06/25/98
Analyzed: 07/07/98
Reported: 07/14/98

Attention: Fran Thie

GC Batch Number: GC070798OVOA09A

Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	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

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Descript: EB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806G77-05	Sampled: 06/24/98 Received: 06/25/98 Analyzed: 07/08/98 Reported: 07/14/98
Attention: Fran Thie		

QC Batch Number: GC070898BTEX02A
Instrument ID: GCHP2

Total Purgeable 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	0.54
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	112

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Descript: DUP <i>MW-1</i> Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9806G77-06	Sampled: 06/24/98 Received: 06/25/98 Analyzed: 07/07/98 Reported: 07/14/98
--	---	---

QC Batch Number: GC070798OVOA09A
Instrument ID: GCHP09

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.0	N.D.
Carbon Tetrachloride	1.0	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethylvinyl ether	2.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	1.0	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	28
1,1-Dichloroethene	1.0	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	2.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-2-fluorobenzene	70 130	77

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Descript: DUP <i>MD-1</i> Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806G77-06	Sampled: 06/24/98 Received: 06/25/98 Analyzed: 07/10/98 Reported: 07/14/98
--	--	---

QC Batch Number: GC071098BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2500	12000
Methyl t-Butyl Ether	120	710
Benzene	25	3800
Toluene	25	250
Ethyl Benzene	25	47
Xylenes (Total)	25	1400
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	118

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager





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

Client Project ID: Shell 1784 150th Ave.
Matrix: Liquid

Work Order #: 9806G77 -01-05

Reported: Jul 15, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC070898802002A	GC070898802002A	GC070898802002A	GC070898802002A	GC070898802002A
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:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	8062573	8062573	8062573	8062573	8062573
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/8/98	7/8/98	7/8/98	7/8/98	7/8/98
Analyzed Date:	7/8/98	7/8/98	7/8/98	7/8/98	7/8/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	350 µg/L
Result:	19	19	19	61	340
MS % Recovery:	95	95	95	102	97
Dup. Result:	19	19	21	62	350
MSD % Recov.:	95	95	105	103	100
RPD:	0.0	0.0	10	1.6	2.9
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS070898	LCS070898	LCS070898	LCS070898	LCS070898
Prepared Date:	7/8/98	7/8/98	7/8/98	7/8/98	7/8/98
Analyzed Date:	7/8/98	7/8/98	7/8/98	7/8/98	7/8/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	350 µg/L
LCS Result:	19	20	20	65	340
LCS % Recov.:	95	100	100	108	97

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

SEQUOIA ANALYTICAL
Elap #1271

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

9806G77.BLA <1>





Sequoia Analytical

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

Client Project ID: Shell 1784 150th Ave.
Matrix: Liquid

Work Order #: 9806G77-06

Reported: Jul 15, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC071098802002A	GC071098802002A	GC071098802002A	GC071098802002A	GC071098802002A
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:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	8062477	8062477	8062477	8062477	8062477
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/10/98	7/10/98	7/10/98	7/10/98	7/10/98
Analyzed Date:	7/10/98	7/10/98	7/10/98	7/10/98	7/10/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	370 µg/L
Result:	18	20	21	63	340
MS % Recovery:	90	100	105	105	92
Dup. Result:	18	20	21	63	340
MSD % Recov.:	90	100	105	105	92
RPD:	0.0	0.0	0.0	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS071098	LCS071098	LCS071098	LCS071098	LCS071098
Prepared Date:	7/10/98	7/10/98	7/10/98	7/10/98	7/10/98
Analyzed Date:	7/10/98	7/10/98	7/10/98	7/10/98	7/10/98
Instrument I.D.#:	HP2	HP2	HP2	HP2	HP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	370 µg/L
LCS Result:	17	18	19	56	340
LCS % Recov.:	85	90	95	93	92

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

SEQUOIA ANALYTICAL
Elap #1271

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

9806G77.BLA <2>





Sequoia Analytical

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

Client Project ID: Shell 1784 150th Ave.

QC Sample Group: 9806G77-01

Reported: Jul 14, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8010/601
Analyst: M. McLachlan

ANALYTE 1,1-DCE TCE Chlorobenzene

QC Batch #: GC0706980VOA09B

Sample No.: 9806H45-01

Date Prepared: 7/6/98 7/6/98 7/6/98
Date Analyzed: 7/7/98 7/7/98 7/7/98
Instrument I.D.#: gchp09 gchp09 gchp09

Sample Conc., ug/L: N.D. N.D. N.D.
Conc. Spiked, ug/L: 25 25 25

Matrix Spike, ug/L: 22 25 22
% Recovery: 88 100.0 88

Matrix
pike Duplicate, ug/L: 22 25 22
% Recovery: 88 100.0 88

relative % Difference: 0.0 0.0 0.0

RPD Control Limits: 0-50 0-50 0-50

LCS Batch#: VWBLK070698BSA

Date Prepared: 7/6/98 7/6/98 7/6/98
Date Analyzed: 7/6/98 7/6/98 7/6/98
Instrument I.D.#: gchp09 gchp09 gchp09

Conc. Spiked, ug/L: 25 25 25

Recovery, ug/L: 20 23 23
LCS % Recovery: 80 92 92

Percent Recovery Control Limits:

MS/MSD	70-140	70-140	70-140
LCS	65-135	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

Please Note:

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SEQUOIA ANALYTICAL

Peggy Penner
Project Manager





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

Client Project ID: Shell 1784 150th Ave.

QC Sample Group: 9806G77-02-06

Reported: Jul 14, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8010/601
Analyst: M. McLachlan

ANALYTE 1,1-DCE TCE Chlorobenzene

QC Batch #: GC0707980VOA09A

Sample No.: 9806H45-01

Date Prepared: 7/6/98 7/6/98 7/6/98

Date Analyzed: 7/7/98 7/7/98 7/7/98

Instrument I.D.#: gchp09 gchp09 gchp09

Sample Conc., ug/L: N.D. N.D. N.D.

Conc. Spiked, ug/L: 25 25 25

Matrix Spike, ug/L: 22 25 22

% Recovery: 88 100.0 88

Matrix
pike Duplicate, ug/L: 22 25 22

% Recovery: 88 100.0 88

relative % Difference: 0.0 0.0 0.0

RPD Control Limits: 0-50 0-50 0-50

LCS Batch#: VWBLK070798BSA

Date Prepared: 7/7/98 7/7/98 7/7/98

Date Analyzed: 7/7/98 7/7/98 7/7/98

Instrument I.D.#: gchp09 gchp09 gchp09

Conc. Spiked, ug/L: 25 25 25

Recovery, ug/L: 21 22 22

LCS % Recovery: 84 88 88

Percent Recovery Control Limits:

MS/MSD	70-140	70-140	70-140
LCS	65-135	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:

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

Client Proj. ID: Shell 1784 150th Ave.

Received: 06/25/98

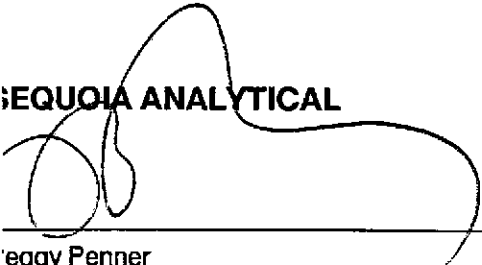
Lab Proj. ID: 9806G77

Reported: 07/14/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of _____ 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

