CAMBRIA

ENVIRONMENTAL PROTECTION

98 NOV 31 AM 9:39

November 19, 1998

Mr. Scott Seery
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Third Quarter 1998 Monitoring Report**
Shell-branded Service Station
1784 150th Avenue
San Leandro, California
WIC #204-6852-1404
Cambria #24-314-398

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.

THIRD 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).

ANTICIPATED FOURTH 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 and Soil/Ground Water Investigation: Cambria prepared a *Subsurface Investigation Work Plan* dated September 30, 1998 detailing the scope of work for additional soil and ground water investigation. A *Subsurface Investigation Work Plan Addendum* dated November 5, 1998 was submitted further detailing the soil and ground water investigation. Cambria anticipates completing the field activities associated with the work plans above during the fourth 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

CLOSING

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-0700 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Darryk Ataide
Project Environmental Scientist

Diane M. Lundquist, P.E.
Principal Engineer

Attachment: A - Blaine Ground Water Monitoring Report

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249 Carson, California 90749-6249

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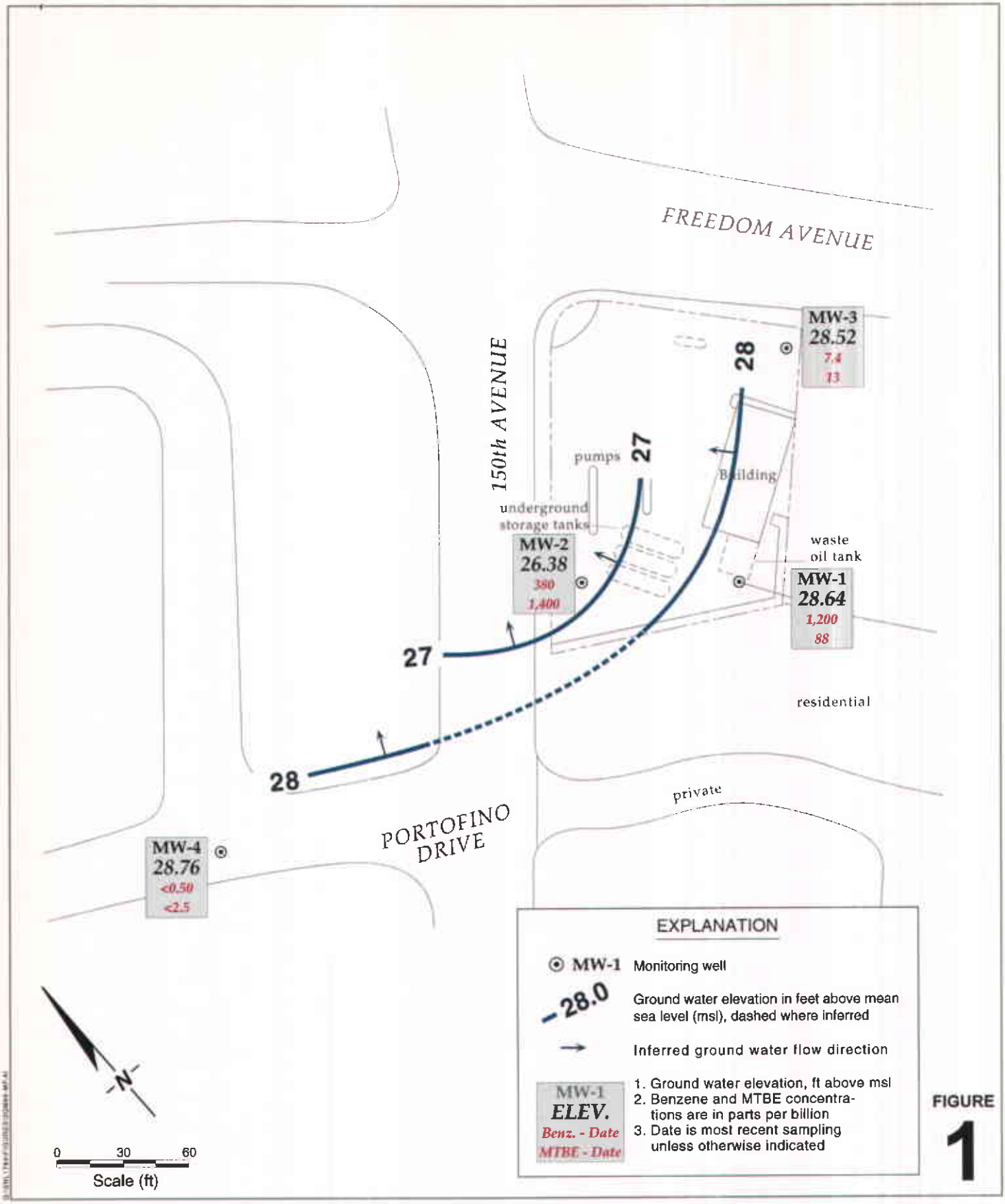

FIGURE 1

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

CAMBRIA

Ground Water Elevation Contours

August 26, 1998

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
	08/26/98		**20.49**	**---**	**28.64**

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)
MW-2	02/13/92	45.63	22.22	---	23.61
	02/24/92		19.61	---	26.22
	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
	08/26/98		**19.25**	**---**	**26.38**
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

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)
	11/11/92		30.26	---	21.71
	12/04/92		29.93	---	22.04
	01/22/93		22.76	---	29.21
	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
	08/26/98		**23.45**	**---**	**28.52**
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

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)
	06/24/98		10.58	---	29.93
	08/26/98		**11.75**	**---**	**28.76**

Abbreviations and Notes:

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)
			←			(Concentrations in µg/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

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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)
			←			(Concentrations in µg/L)					→	
	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[1]	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
	08/26/98	**20.49**	**3,100**	**---**	**---**	**1,200**	**27**	**170**	**50**	**20**	**88**	**2.1**
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	---	---

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)
				←		(Concentrations in µg/L)					→	
	09/12/94	21.80	160,000	---	---	22,000	33,000	3,400	23,000	<0.4	---	---
	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
	08/26/98	**19.25**	**22,000**	**---**	**---**	**380**	**1,100**	**560**	**4,400**	**<5.0**	**330**	**---**
	08/26/98[dup]	**19.25**	**11,000**	**---**	**---**	**180**	**130**	**290**	**500**	**<5.0**	**[illegible]**	**---**
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	---	---

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)
				←			(Concentrations in µg/L)				→	
	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	---	---
	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
	08/26/98	**23.45**	**140**	**---**	**---**	**7.4**	**<0.50**	**<0.50**	**2.5**	**58**	**13**	**1.3**

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)
			← (Concentrations in µg/L) →									
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	---	---
	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
	08/26/98	**11.75**	**<50**	**---**	**---**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**	**1.2**
Trip Blank	03/08/90		<50	---	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	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	---	---

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)
			←				(Concentrations in µg/L)				→	
	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	---	---	---
	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[g]		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 = Post-purge 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

g:\wil1784\qm\0422qmt2.doc

ATTACHMENT A

Blaine Ground Water Monitoring Report

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

October 2, 1998

Equilon Enterprises, L.L.D.
P.O. Box 8080
Martinez, CA 94553

Attn: Karen Petryna

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

3rd Quarter 1998

Groundwater Monitoring Report 980826-Y-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 94608-2411
Attn: Aubrey Cool

(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	08/26/98	TOC	ODOR	NONE	--	--	20.49	44.62
MW-2*	08/26/98	TOC	ODOR	NONE	--	--	19.25	43.81
MW-3	08/26/98	TOC	--	NONE	--	--	23.45	41.52
MW-4	08/26/98	TOC	--	NONE	--	--	11.75	24.58

* Sample DUP was a duplicate sample taken from well MW-2.

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 980826Y2

Date:
Page 1 of 1

9808G79

Site Address: 1784 150th AVE., SAN LEANDRO, CA

WIC#: 204-6852-1404

Shell Engineer: ALEX PEREZ
Phone No.: (510) 335-5027
Fax #:

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: BT

Printed Name: BROOKS TAYLOR

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring	4461	24 hours
Site Investigation	4441	48 hours
Soil Classify/Disposal	4442	16 days (Normal)
Water Classify/Disposal	4443	Other
Soil/Air Rem. or Sys. O & M	4452	
Water Rem. or Sys. O & M	4453	
Other		

NOTE: Notify lab as soon as Possible of 24/48 hrs, TAT.

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 + MTBE	8010		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW1 01	8/26			X		6						X	X							
MW2 02						6						X	X							
MW3 03						6						X	X							
MW4 04						6						X	X							
EB 05						3						X								
DUP 06						6						X	X							

Relinquished By (signature): BT
Printed Name:
Date: 8/27/98
Time: 12:10

Relinquished By (signature):
Printed Name:
Date: 8/27/98
Time:

Relinquished By (signature):
Printed Name:
Date:
Time:

Received (signature): Stan Taylor
Printed Name:
Date: 8/27/98
Time: 12:10

Received (signature):
Printed Name:
Date:
Time:

Received (signature): Jane Downs
Printed Name: DOWNS
Date: 8/27
Time: 1332

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

End Of Chain of Custody

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services
680 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 August 27, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9808G79 -01	LIQUID, MW-1	08/26/98	Halogen. Volatiles, Water
9808G79 -01	LIQUID, MW-1	08/26/98	TPPH/BTEX/MTBE (Concord)
9808G79 -02	LIQUID, MW-2	08/26/98	Halogen. Volatiles, Water
9808G79 -02	LIQUID, MW-2	08/26/98	TPPH/BTEX/MTBE (Concord)
9808G79 -03	LIQUID, MW-3	08/26/98	Halogen. Volatiles, Water
9808G79 -03	LIQUID, MW-3	08/26/98	TPPH/BTEX/MTBE (Concord)
9808G79 -04	LIQUID, MW-4	08/26/98	Halogen. Volatiles, Water
9808G79 -04	LIQUID, MW-4	08/26/98	TPPH/BTEX/MTBE (Concord)
9808G79 -05	LIQUID, EB	08/26/98	TPPH/BTEX/MTBE (Concord)
9808G79 -06	LIQUID, Dup	08/26/98	Halogen. Volatiles, Water
9808G79 -06	LIQUID, Dup	08/26/98	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

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 1784 150th Ave.	Sampled: 08/26/98
1680 Rogers Avenue	Sample Descript: MW-1	Received: 08/27/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 09/09/98
Attention: Fran Thie	Lab Number: 9808G79-01	Reported: 09/10/98

QC Batch Number: GC090898OVOA24B
Instrument ID: GCHP24_2

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.
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**	**20**
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	12	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
4-Bromofluorobenzene	70	130	100

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, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 1784 150th Ave.	Sampled: 08/26/98
1680 Rogers Avenue	Sample Descript: MW-1	Received: 08/27/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/02/98
Attention: Fran Thie	Lab Number: 9808G79-01	Reported: 09/10/98

QC Batch Number: GC090298BTEX02A
Instrument ID: GCHP2

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**1000**	**3100**
Methyl t-Butyl Ether	**50**	**88**
Benzene	**10**	**1200**
Toluene	**10**	**27**
Ethyl Benzene	**10**	**170**
Xylenes (Total)	**10**	**50**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	127

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 1784 150th Ave.	Sampled: 08/26/98
1680 Rogers Avenue	Sample Descript: MW-2	Received: 08/27/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 09/09/98
Attention: Fran Thie	Lab Number: 9808G79-02	Reported: 09/10/98

QC Batch Number: GC090898OVOA24B
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Surrogates	Control Limits %		% Recovery
4-Bromofluorobenzene	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

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell 1784 150th Ave.
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9808G79-02

Sampled: 08/26/98
Received: 08/27/98

Analyzed: 09/04/98
Reported: 09/10/98

QC Batch Number: GC090498BTEX09A
Instrument ID: GCHP9

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**2500**	**22000**
Methyl t-Butyl Ether	**125**	**330**
Benzene	**25**	**380**
Toluene	**25**	**1100**
Ethyl Benzene	**25**	**560**
Xylenes (Total)	**25**	**4400**
Chromatogram Pattern:		**C6-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 #1271

Peggy Penner
Project Manager

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 1784 150th Ave.	Sampled: 08/26/98
1680 Rogers Avenue	Sample Descript: MW-3	Received: 08/27/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 09/09/98
Attention: Fran Thie	Lab Number: 9808G79-03	Reported: 09/10/98

QC Batch Number: GC090998OVOA24A
Instrument ID: GCHP24_2

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.
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**	**58**
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	12	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
4-Bromofluorobenzene	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

Sequoia Analytical

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 1784 150th Ave.	Sampled: 08/26/98
1680 Rogers Avenue	Sample Descript: MW-3	Received: 08/27/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/02/98
Attention: Fran Thie	Lab Number: 9808G79-03	Reported: 09/10/98

QC Batch Number: GC090298BTEX02A
Instrument ID: GCHP2

Total Purgeable 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**	**13**
Benzene	**0.50**	**7.4**
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**2.5**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	131 Q

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	Client Proj. ID: Shell 1784 150th Ave.	Sampled: 08/26/98
1680 Rogers Avenue	Sample Descript: MW-4	Received: 08/27/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 09/09/98
Attention: Fran Thie	Lab Number: 9808G79-04	Reported: 09/10/98

QC Batch Number: GC090898OVOA24B
Instrument ID: GCHP24_2

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.
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
4-Bromofluorobenzene	70	130	107

Analytes 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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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 1784 150th Ave.	Sampled: 08/26/98
1680 Rogers Avenue	Sample Descript: MW-4	Received: 08/27/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/02/98
Attention: Fran Thie	Lab Number: 9808G79-04	Reported: 09/10/98

QC Batch Number: GC090298BTEX02A
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	120

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penner
Project Manager

Sequoia Analytical

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Blaine Tech Services	Client Proj. ID: Shell 1784 150th Ave.	Sampled: 08/26/98
1680 Rogers Avenue	Sample Descript: EB	Received: 08/27/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/02/98
Attention: Fran Thie	Lab Number: 9808G79-05	Reported: 09/10/98

QC Batch Number: GC090298BTEX02A
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	120

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	Client Proj. ID: Shell 1784 150th Ave.	Sampled: 08/26/98
1680 Rogers Avenue	Sample Descript: Dup	Received: 08/27/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 09/09/98
Attention: Fran Thie	Lab Number: 9808G79-06	Reported: 09/10/98

QC Batch Number: GC090898OVOA24B
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	50	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Surrogates	Control Limits %		% Recovery
4-Bromofluorobenzene	70	130	106

Analytes 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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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 1784 150th Ave.	Sampled: 08/26/98
1680 Rogers Avenue	Sample Descript: Dup	Received: 08/27/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/04/98
Attention: Fran Thie	Lab Number: 9808G79-06	Reported: 09/10/98

QC Batch Number: GC090498BTEX09A
Instrument ID: CHP9

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**1000**	**11000**
Methyl t-Butyl Ether	**50**	**1400**
Benzene	**10**	**180**
Toluene	**10**	**130**
Ethyl Benzene	**10**	**290**
Xylenes (Total)	**10**	**500**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	119

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

SEQUOIA ANALYTICAL - ELAP #1271

Peggy Penrier
Project Manager

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: 9808G79-03

Reported: Sep 10, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8010/8020, 601/602
Analyst: C. Medina

ANALYTE	1,1-DCE	TCE	Chlorobenzene
QC Batch #:	GC0909980VOA24A		
Sample No.:	9808I28-01		
Date Prepared:	9/8/98	9/8/98	9/8/98
Date Analyzed:	9/8/98	9/8/98	9/8/98
Instrument I.D.#:	gchp24_2	gchp24_2	gchp24_2
Sample Conc., ug/L:	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	25	25	25
Matrix Spike, ug/L:	25	23	27
% Recovery:	100.0	92	108
Matrix pike Duplicate, ug/L:	25	24	27
% Recovery:	100.0	96	108
elative % Difference:	0.0	4.3	0.0
RPD Control Limits:	0-50	0-50	0-50

LCS Batch#:	VWLCS090998A		
Date Prepared:	9/9/98	9/9/98	9/9/98
Date Analyzed:	9/9/98	9/9/98	9/9/98
Instrument I.D.#:	gchp24_2	gchp24_2	gchp24_2
Conc. Spiked, ug/L:	25	25	25
Recovery, ug/L:	26	23	28
LCS % Recovery:	104	92	112

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140
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:
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.

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: 9808G79-01-02, -04, -06

Reported: Sep 10, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8010/8020, 601/602
Analyst: C. Medina

ANALYTE	1,1-DCE	TCE	Chlorobenzene
QC Batch #:	GC0908980VOA24B		
Sample No.:	9808I28-01		
Date Prepared:	9/8/98	9/8/98	9/8/98
Date Analyzed:	9/8/98	9/8/98	9/8/98
Instrument I.D.#:	gchp24_2	gchp24_2	gchp24_2
Sample Conc., ug/L:	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	25	25	25
Matrix Spike, ug/L:	25	23	27
% Recovery:	100.0	92	108
Matrix pike Duplicate, ug/L:	25	24	27
% Recovery:	100.0	96	108
elative % Difference:	0.0	4.3	0.0
RPD Control Limits:	0-50	0-50	0-50

LCS Batch#:	VWLCS090898A		
Date Prepared:	9/8/98	9/8/98	9/8/98
Date Analyzed:	9/8/98	9/8/98	9/8/98
Instrument I.D.#:	gchp24_2	gchp24_2	gchp24_2
Conc. Spiked, ug/L:	25	25	25
Recovery, ug/L:	25	24	26
LCS % Recovery:	100.0	96	104

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140			
LCS	65-135	70-130	70-130	70-130	70-130	70-130

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

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.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

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 #: 9808G79 -02, 06

Reported: Sep 11, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC090498802009A	GC090498802009A	GC090498802009A	GC090498802009A	GC090498802009A
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:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	8090559	8090559	8090559	8090559	8090559
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/4/98	9/4/98	9/4/98	9/4/98	9/4/98
Analyzed Date:	9/4/98	9/4/98	9/4/98	9/4/98	9/4/98
Instrument I.D.#:	HP9	HP9	HP9	HP9	HP9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	250 µg/L
Result:	17	19	21	64	280
MS % Recovery:	85	95	105	107	112
Dup. Result:	17	19	21	63	270
MSD % Recov.:	85	95	105	105	108
RPD:	0.0	0.0	0.0	1.6	3.6
RPD Limit:	0-20	0-20	0-20	0-20	0-50
LCS #:	LCS090498	LCS090498	LCS090498	LCS090498	LCS090498
Prepared Date:	9/4/98	9/4/98	9/4/98	9/4/98	9/4/98
Analyzed Date:	9/4/98	9/4/98	9/4/98	9/4/98	9/4/98
Instrument I.D.#:	HP9	HP9	HP9	HP9	HP9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	250 µg/L
LCS Result:	18	20	21	66	270
LCS % Recov.:	90	100	105	110	108
MS/MSD Control Limits	60-140	60-140	60-140	60-140	
LCS Control Limits	70-130	70-130	70-130	70-130	60-140

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services, Inc.	Client Project ID:	Shell 1784 150th Ave.	
1680 Rogers Ave.	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thie	Work Order #:	9808G79-01, 03-05	Reported: Sep 11, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC090298802002A	GC090298802002A	GC090298802002A	GC090298802002A	GC090298802002A
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:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	8082435	8082435	8082435	8082435	8082435
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/2/98	9/2/98	9/2/98	9/2/98	9/2/98
Analyzed Date:	9/2/98	9/2/98	9/2/98	9/2/98	9/2/98
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:	18	18	18	56	320
MS % Recovery:	90	90	90	93	91
Dup. Result:	20	18	19	57	330
MSD % Recov.:	100	90	95	95	94
RPD:	10.5	0.0	5.4	1.8	3.1
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS090298	LCS090298	LCS090298	LCS090298	LCS090298
Prepared Date:	9/2/98	9/2/98	9/2/98	9/2/98	9/2/98
Analyzed Date:	9/2/98	9/2/98	9/2/98	9/2/98	9/2/98
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:	18	18	17	55	310
LCS % Recov.:	90	90	85	92	89
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

Reggy Penner
Project Manager

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell 1784 150th Ave. Lab Proj. ID: 9808G79	Received: 08/27/98 Reported: 09/10/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 17 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