CAMBRIA

June 10, 1998

Brian Oliva
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

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ENVIRONMENTAL PROTECTION

Re: **Second Quarter 1998 Monitoring Report**
Shell Service Station
1285 Bancroft Avenue
San Leandro, California
WIC #204-6852-0703
Cambria Project #24-314-298

Dear Mr. Oliva:

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

SECOND QUARTER 1998 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water depths and collected water samples from the site wells (Figure 1). Dissolved oxygen (DO) readings were taken from all wells. The Blaine report, describing these sampling activities and presenting the analytical results, is included as Attachment A. Cambria calculated ground water elevations (Table 1), compiled the analytical data (Tables 2A and 2B), and prepared a ground water elevation contour map (Figure 1).

Oxygen-Releasing Compound (ORC) Monitoring Update: As approved by the Alameda County Department of Environmental Health in correspondence to Shell dated September 11, 1997, Blaine installed ORCs in wells MW-2 and MW-3 on October 24, 1997. As shown in Figures A, B, and C and presented in Table 2A, ORCs have significantly increased DO concentrations in well MW-2. Benzene concentrations in the site wells have decreased relative to pre-ORC installation concentrations.

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TECHNOLOGY, INC.
1144 65TH STREET,
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PH: (510) 420-0700
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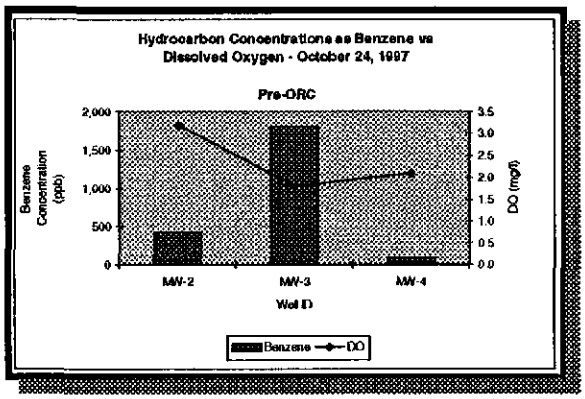

Figure A.

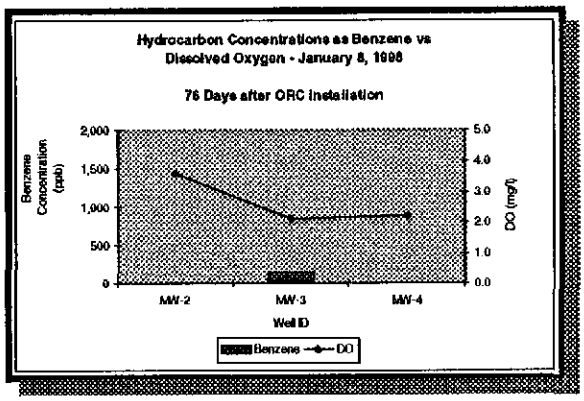

Figure B.

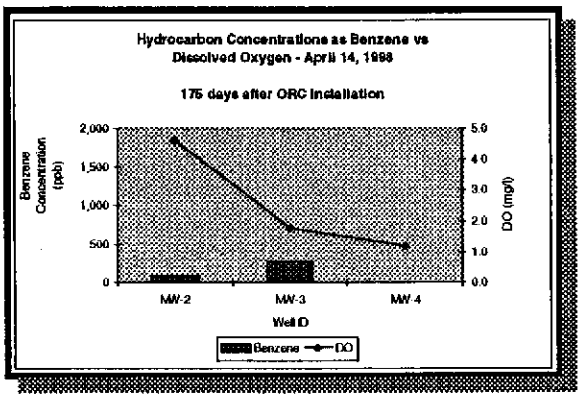

Figure C.

ANTICIPATED FUTURE 1998 ACTIVITIES

Ground Water Monitoring: The next sampling event is scheduled for third quarter 1998. At that time, Blaine will measure ground water depths, collect water samples, and measure DO concentrations in the site wells. Cambria will tabulate the data and submit a report summarizing the activities.

Sampling Frequency Reductions: A general decrease in hydrocarbon concentrations has been observed during seven years of monitoring. Cambria recommends reducing sampling frequency to biannually based on this decreasing hydrocarbon trend and in order to avoid removing oxygen latent water generated by the ORCs. The biannual monitoring events will occur during the first and third quarters. We will implement this sampling schedule during fourth quarter 1998 unless otherwise notified by your office.

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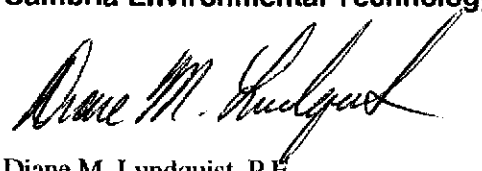
CLOSING

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

Sincerely,
Cambria Environmental Technology, Inc.



Diane M. Lundquist, P.E.
Principal Engineer

Attachment : A - Blaine Quarterly Ground Water Monitoring Report

cc: A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553

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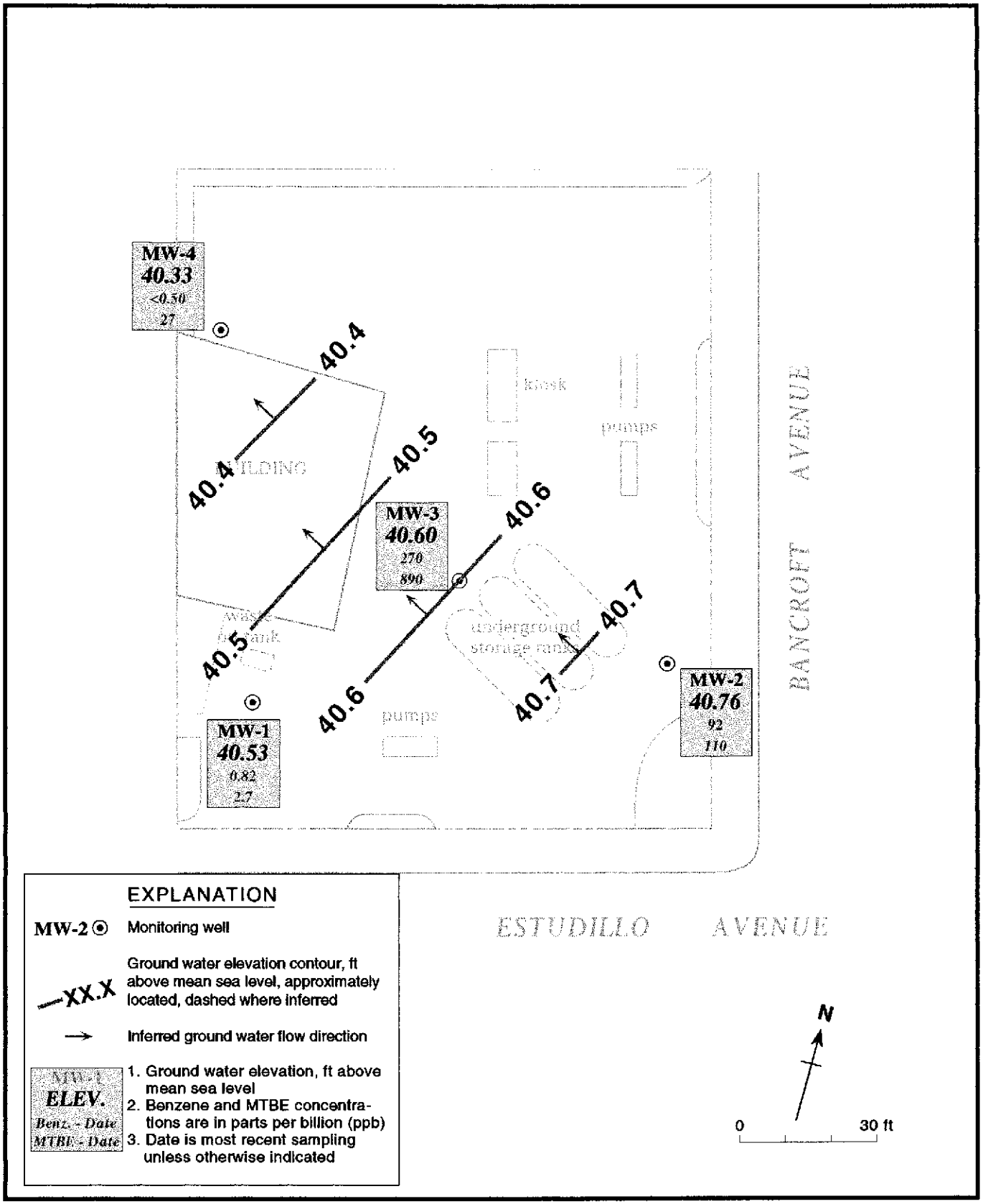

Figure 1. Ground Water Elevation Contours - April 14, 1998 - Shell Service Station, WIC# 204-6852-0703
1285 Bancroft Avenue, San Leandro, California

Table 1. **Ground Water Elevation Data** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft below TOC)	Ground Water Elevation (ft above msl)
MW-1	03/13/90	66.29	42.65	23.64
	06/12/90		43.14	23.15
	09/13/90		44.71	21.58
	12/18/90		45.23	21.06
	03/07/91		43.32	22.97
	06/07/91		42.18	24.11
	09/17/91		44.85	21.44
	03/01/92		41.56	24.73
	06/03/92		40.74	25.55
	09/01/92		43.05	23.24
	12/07/92		44.19	22.10
	03/01/93		34.96	31.33
	06/22/93		36.75	29.54
	09/09/93		39.36	26.93
	12/13/93		40.74	25.55
	03/03/94		38.40	27.89
	07/27/94	66.90[a]	40.49	26.41
	08/09/94		40.84	26.06
	10/05/94		41.98	24.92
	11/11/94		41.34	25.56
	12/29/94		42.06	24.84
	01/04/95		39.90	27.00
	04/14/95		31.02	35.88
	07/12/95		34.61	32.29
	12/14/95		39.24	27.66
	01/10/96		38.34	28.56
	04/25/96		31.95	34.95
	07/09/96		34.45	32.45
	10/02/96		37.72	29.18
	01/09/97		32.25	34.65
	04/09/97		32.90	34.00
	07/02/97		36.65	30.25
	10/24/97		39.75	27.15
	01/08/98		36.31	30.59
	04/14/98		**26.37**	**40.53**
MW-2	03/01/92	66.91	41.57	25.34
	06/03/92		40.56	26.35
	09/01/92		42.94	23.97
	12/07/92		44.13	22.78
	03/01/93		34.82	32.09
	06/22/93		36.64	30.27
	09/09/93		39.24	27.67
	12/13/93		40.64	26.27

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Table 1. **Ground Water Elevation Data** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft below TOC)	Ground Water Elevation (ft above msl)
	03/03/94		38.98	27.93
	07/27/94	66.91[a]	40.40	26.51
	08/09/94		40.71	26.20
	10/05/94		41.89	25.02
	11/11/94		41.22	25.69
	12/29/94		41.99	24.92
	01/04/95		39.81	27.10
	04/14/95		30.83	36.08
	07/12/95		34.50	32.41
	12/14/95		39.22	27.69
	01/10/96		38.22	28.69
	04/25/96		31.78	35.13
	07/09/96		34.35	32.56
	10/02/96		37.56	29.35
	01/09/97		32.07	34.84
	04/09/97		32.78	34.13
	07/02/97		36.56	30.35
	10/24/97		39.74	27.17
	01/08/98		36.13	30.78
	04/14/98		**26.15**	**40.76**
MW-3	03/01/92	66.31	42.00	24.31
	06/03/92		44.30	22.01
	09/01/92		43.62	22.69
	12/07/92		44.77	21.54
	03/01/93		35.50	30.81
	06/22/93		37.30	29.01
	09/09/93		39.90	26.41
	12/13/93		41.30	25.01
	03/03/94		38.32	27.99
	07/27/94	67.52[a]	41.07	26.45
	08/09/94		41.37	26.15
	10/05/94		42.55	24.97
	11/11/94		41.86	25.66
	12/29/94		42.59	24.93
	01/04/95		40.54	26.98
	04/14/95		31.50	36.02
	07/12/95		35.14	32.38
	12/14/95		39.86	27.66
	01/10/96		39.98	27.54
	04/25/96		32.38	35.14
	07/09/96		34.93	32.59
	10/02/96		38.20	29.32
	01/09/97		32.81	34.71

Table 1. **Ground Water Elevation Data** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft below TOC)	Ground Water Elevation (ft above msl)
	04/09/97		33.42	34.10
	07/02/97		37.22	30.30
	10/24/97		40.75	26.77
	01/08/98		36.90	30.62
	04/14/98		**26.92**	**40.60**
MW-4	07/27/94	68.08	41.78	26.30
	08/09/94		42.09	25.99
	10/05/94		43.25	24.83
	11/11/94		42.54	25.54
	12/29/94		43.34	24.74
	01/04/95		41.57	26.51
	04/14/95		32.24	35.84
	07/12/95		35.88	32.20
	12/14/95		40.54	27.54
	01/10/96		39.59	28.49
	04/25/96		33.22	34.86
	07/09/96		35.70	32.38
	10/02/96		38.95	29.13
	01/09/97		33.04	35.04
	04/09/97		34.15	33.93
	07/02/97		37.92	30.16
	10/24/97		41.00	27.08
	01/08/98		37.54	30.54
	04/14/98		**27.75**	**40.33**

Notes and Abbreviations:

a = Top-of-casing elevation resurveyed March 29, 1994
ft = Feet
msl = Mean sea level
TOC = Top of casing

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Table 2A. **Analytical Results for Ground Water - Fuel Compounds** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →							
MW-1	09/17/91	44.85	50[a]	160[b]	<0.5	<0.5	<0.5	<0.5	---	---
	03/01/92	41.56	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/03/92	40.74	<50	---	0.8	<0.5	0.9	<0.5	---	---
	09/01/92	43.05	<50	---	<0.5	5.8	5.3	7.2	---	---
	12/07/92	44.19	68	---	<0.5	0.8	<0.5	1.2	---	---
	03/01/93	34.96	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	03/01/93[dup]	34.96	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/22/93	36.75	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/09/93	39.36	200[c]	---	16	5.2	2.0	<0.5	---	---
	12/13/93	40.74	89[d]	---	3.4	<0.5	<0.5	<0.5	---	---
	03/03/94	38.40	65[d]	---	2.6	<0.5	<0.5	<0.5	---	---
	07/27/94	40.49	180	---	30	1.8	2.6	5.0	---	---
	07/27/94[dup]	40.49	240	---	25	2.2	2.2	4.0	---	---
	10/05/94	41.98	<50	---	<0.3	<0.3	<0.3	<0.6	---	---
	01/04/95	39.90	<50	---	2.4	<0.5	<0.5	<0.5	---	---
	01/04/95[dup]	39.90	<50	---	2.5	<0.5	<0.5	<0.5	---	---
	04/14/95	35.88	<50	---	<0.5	0.5	<0.5	<0.5	---	---
	04/14/95[dup]	35.88	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	07/12/95	34.61	<50	---	1.2	0.8	<0.5	<0.5	---	---
	12/14/95	39.24	380	---	230	9.0	1.1	49	---	---
	01/10/96	38.34	60	---	3.5	<0.5	<0.5	0.5	---	---
	04/25/96	31.95	<50	---	3.3	2.4	1.2	5.4	---	---
	07/09/96	34.45	810	---	29	7.3	<5.0	11	1,800	---
	10/02/96	37.72	<125	---	3.1	<1.2	<1.2	<1.2	960	---
	01/09/97	32.25	<250	---	<2.5	<2.5	<2.5	<2.5	510	---
	04/09/97	32.90	<50	---	<0.5	<0.5	<0.5	<0.5	130	---
	07/02/97	36.65	<250	---	60	7.6	4.2	18	1,300	---
	10/24/97	39.75	<500	---	140	<5.0	12	40	2,600	4.5
	01/08/98	36.31	<50	---	<0.50	<0.50	<0.50	<0.50	170	4.0
	04/14/98[e]	**26.37**	**72**	**---**	**0.82**	**4.9**	**1.8**	**13**	**2.7**	**2.2**
MW-2	03/01/92	41.57	910	<50	11	5.2	50	140	---	---
	06/03/92	40.56	1,400	---	33	16	150	240	---	---

Table 2A. **Analytical Results for Ground Water - Fuel Compounds** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →							
	09/01/92	42.94	230	---	5.2	4.1	15	19	---	---
	09/01/92[dup]	42.94	320	---	5.6	5	18	220	---	---
	12/07/92	44.13	240	---	1.5	1.3	9.5	9.9	---	---
	12/07/92[dup]	44.13	<50	---	1.7	1	13	12	---	---
	03/01/93	34.82	230	---	260	310	27	66	---	---
	06/22/93	36.64	220	---	18	3.4	3.6	5.2	---	---
	06/22/93[dup]	36.64	320	---	29	4.8	4.2	6.1	---	---
	09/09/93	39.24	260	---	18	4.6	16	12	---	---
	09/09/93[dup]	39.24	210	---	16	3.9	14	9.1	---	---
	12/13/93	40.64	1,300[c]	---	82	34	73	15	---	---
	12/13/93[dup]	40.64	1,400[c]	---	110	45	72	19	---	---
	03/03/94	38.98	9,600	---	1,200	600	390	710	---	---
	03/03/94[dup]	38.98	10,000	---	930	500	330	590	---	---
	07/27/94	40.40	190	---	<0.5	1.0	<0.5	<0.5	---	---
	08/09/94	40.71	1,500	---	53.5	12.4	46.2	44.0	---	---
	10/05/94	41.89	<485	---	<0.3	<0.3	<0.3	<0.6	---	---
	01/04/95	39.81	1,300	---	150	35	23	51	---	---
	04/14/95	30.83	5,000	---	1,000	340	400	810	---	---
	07/12/95	34.50	4,500	---	440	170	170	290	---	---
	07/12/95[dup]	34.50	4,300	---	430	160	160	280	---	---
	12/14/95	39.22	37,000	---	1,800	7,600	1,000	6,700	---	---
	12/14/95[dup]	39.22	34,000	---	1,800	6,600	1,000	6,500	---	---
	01/10/96	38.22	69,000	---	1,000	3,200	510	3,300	---	---
	01/10/96[dup]	38.22	78,000	---	1,100	3,500	560	3,600	---	---
	04/25/96	31.78	11,000	---	820	880	210	1,400	---	---
	04/25/96[dup]	31.78	9,300	---	690	710	160	1,200	---	---
	07/09/96	34.35	100,000	---	15,000	24,000	1,700	9,900	70,000	---
	07/09/96[dup]	34.35	86,000	---	12,000	19,000	1,400	7,500	32,000	---
	10/02/96	37.56	82,000	---	20,000	32,000	1,800	9,100	40,000	---
	10/02/96[dup]	37.56	89,000	---	19,000	31,000	1,700	8,900	42,000	---
	01/09/97	32.07	17,000	---	710	2,300	350	2,200	4,000	---
	01/09/97[dup]	32.07	12,000	---	490	1,300	260	1,800	2,800	---

Table 2A. **Analytical Results for Ground Water - Fuel Compounds** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →							
	04/09/97	32.78	20,000	---	970	3,500	330	2,000	3,200	---
	07/02/97	36.56	28,000	---	1,700	8,700	550	3,000	5,500	---
	07/02/97[dup]	36.56	32,000	---	2,000	11,000	680	3,800	6,400	---
	10/24/97	39.74	14,000	---	460	1,000	300	2,000	3,000	3.2
	10/24/97[dup]	39.74	14,000	---	420	980	270	2,000	2,800	3.2
	01/08/98	36.13	180	---	2.8	1.6	<0.50	<0.50	7.6	3.6
	04/14/98[e]	**26.15**	**12,000**	**---**	**92**	**1,500**	**260**	**1,900**	**110**	**4.6**
MW-3	03/01/92	42.00	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	06/03/92	44.30	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/01/92	43.62	<50	---	<0.5	<0.5	1.1	3.2	---	---
	12/07/92	44.77	52	---	<0.5	<0.5	<0.5	0.5	---	---
	03/01/93	35.50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/22/93	37.30	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/09/93	39.90	50[c]	---	5.0	<0.5	<0.5	<0.5	---	---
	12/13/93	41.30	120[d]	---	7.5	<0.5	1.6	6.3	---	---
	03/03/94	38.32	<50	---	0.81	<0.5	<0.5	<0.5	---	---
	07/27/94	41.07	<50	---	3.5	<0.5	<0.5	<0.5	---	---
	10/05/94	42.55	<57	---	<0.3	<0.3	<0.3	<0.6	---	---
	01/04/95	40.54	<50	---	6.0	<0.5	<0.5	<0.5	---	---
	04/14/95	31.50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	07/12/95	35.14	90	---	16	<0.5	<0.5	<0.5	---	---
	12/14/95	39.86	4,600	---	460	390	34	1,000	---	---
	01/10/96	39.98	11,000	---	470	460	68	670	---	---
	04/25/96	32.38	5,500	---	830	910	<50	460	---	---
	07/09/96	34.93	72,000	---	7,600	14,000	970	5,900	59,000	---
	10/02/96	38.20	77,000	---	15,000	24,000	2,000	9,600	94,000 (71,000)	---
	01/09/97	32.81	130	---	15	16	2.0	9.7	80	---
	04/09/97	33.42	24,000	---	2,900	5,300	420	2,200	4,100	---
	04/09/97[dup]	33.42	24,000	---	3,000	5,600	450	2,300	4,700	---
	07/02/97	37.22	68,000	---	7,400	18,000	1,600	8,700	16,000	---
	10/24/97	40.75	93,000	---	1,800	8,500	2,300	14,000	3,100	1.8

Table 2A. **Analytical Results for Ground Water - Fuel Compounds** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	T	E	X	MTBE	DO (mg/L)
			← (Concentrations in µg/L) →							
	01/08/98	36.90	16,000	---	140	870	22	5,000	120	2.1
	01/08/98[dup]	36.90	24,000	---	100	840	26	5,600	<100	2.1
	04/14/98[e]	**26.92**	**100,000**	**---**	**270**	**5,000**	**2,100**	**17,000**	**890**	**1.8**
	04/14/98[dup, e]	**26.92**	**49,000**	**---**	**230**	**3,200**	**1,200**	**8,900**	**790**	**1.8**
MW-4	07/27/94	41.78	120	---	3.4	3.9	0.6	4.9	---	---
	10/05/94	43.25	<50	---	<0.3	<0.3	<0.3	<0.6	---	---
	10/05/94[dup]	43.25	<50	---	<0.3	<0.3	<0.3	<0.6	---	---
	01/04/95	41.57	<50	---	1.4	<0.5	<0.5	<0.5	---	---
	04/14/95	32.24	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	07/12/95	35.88	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	12/14/95	40.54	70	---	0.6	<0.5	<0.5	<0.5	---	---
	01/10/96	39.59	280	---	3.7	1.0	<0.5	0.8	---	---
	04/25/96	33.22	<500	---	63	<5.0	<5.0	<5.0	---	---
	07/09/96	35.70	<2000	---	160	<20	<20	<20	5,300	---
	10/02/96	38.95	<5,000	---	480	<50	<50	<50	19,000	---
	01/09/97	33.04	<2,000	---	43	<20	<20	<20	7,000	---
	04/09/97	34.15	<2,500	---	120	<25	<25	<25	8,100	---
	07/02/97	37.92	<2,000	---	81	<20	<20	<20	6,600	---
	10/24/97	41.00	<500	---	90	<5.0	11	6.3	3,200	2.1
	01/08/98	37.54	<50	---	3.9	<0.50	<0.50	<0.50	1,800	2.2
	04/14/98[e]	**27.75**	**920**	**---**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**27**	**1.2**
Bailer Blank	09/01/92		<50	---	<0.5	<0.5	<0.5	1	---	---
	12/07/92		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	01/04/95		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	07/12/95		<50	---	0.6	0.7	<0.5	<0.5	---	---
	12/14/95		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
Trip Blank	09/17/91		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	03/01/92		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/03/92		<50	---	<0.5	<0.5	<0.5	<0.5	---	---

Table 2A. **Analytical Results for Ground Water - Fuel Compounds** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	T	E	X	MTBE	DO (mg/L)
			←			(Concentrations in µg/L)			→	
	09/01/92		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	12/07/92		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	03/01/93		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	06/22/93		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	09/09/93		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	12/13/93		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	03/03/94		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	07/27/94		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	08/09/94		<500	---	<0.3	<0.3	<0.3	<0.6	---	---
	10/05/94		<50	---	<0.3	<0.3	<0.3	<0.6	---	---
	01/04/95		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	04/14/95		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	07/12/95		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
	12/14/95		<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MCLs			NE	NE	1	150	700	1,750	NE	

Table 2A. **Analytical Results for Ground Water - Fuel Compounds** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft 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
B = Benzene by EPA Method 8020
T = Toluene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
X = Xylenes by EPA Method 8020
MTBE = Methyl tert-butyl ether by EPA Method 8020. Result in parentheses indicates MTBE by EPA Method 8260
DO = Dissolved oxygen
µg/L = Micrograms per liter
mg/L = Milligrams per liter
dup = Duplicate sample
MCLs = California primary maximum contaminant levels for drinking water (22 CCR 64444)
NE = MCLs not established

Notes:

a = Result due to a non-gasoline hydrocarbon compound
b = Result due to a non-diesel hydrocarbon compound
c = The concentrations reported as gasoline are primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline
d = The concentrations reported as gasoline are primarily due to the presence of a discrete peak not indicative of gasoline
e = Equipment blank contained 80 µg/L TPH-G, 1.2 µg/L benzene, 17 µg/L toluene, 3.2 µg/L ethylbenzene, 16 µg/L xylenes, and 15 µg/L MTBE
--- = Not analyzed/Not available
<n = Below detection limits of n µg/L

Table 2B. **Analytical Results for Ground Water - Non-Fuel Compounds** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water (ft)	TCE	TOG	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE
			← (Concentrations in µg/L) →					
MW-1	03/08/90	42.65	---	<10,000	35	6.3	---	---
	06/12/90	43.14	---	<10,000	1.9	63	---	---
	09/13/90	44.71	---	<10,000	26	9	---	---
	12/18/90	45.23	---	<10,000	<0.4	5.3	---	---
	03/07/91	43.32	---	---	23	3.7	---	---
	06/07/91	42.18	---	---	21	6.6	---	---
	09/17/91	44.85	---	---	23	7.4	---	---
	03/01/92	41.56	<0.4	---	21	6.3	---	<0.4
	06/03/92	40.74	17	---	<0.5	6.7	<0.5	<0.5
	09/01/92	43.05	12	---	<0.5	5.8	<0.5	<0.5
	12/07/92	44.19	<0.5	---	17	9	<0.5	<0.5
	03/01/93	34.96	<0.5	---	22	13	<0.5	<0.5
	03/01/93[dup]	34.96	<0.5	---	22	13	<0.5	<0.5
	06/23/93	36.75	<0.5	---	18	8	<0.5	<0.5
	09/09/93	39.36	<0.5	---	17	6.5	<0.5	<0.5
	12/13/93	40.74	---	---	---	---	---	---
	04/14/95	31.02	---	---	---	---	---	---
MW-2	03/01/92	41.57	<0.4	---	11	8.9	---	<0.4
	06/03/92	40.56	7.4	---	<0.5	<0.5	0.76	6.3
	09/01/92	42.94	8.4	---	<0.5	9.1	<0.5	<0.5
	09/01/92[dup]	42.94	8.4	---	<0.5	8.1	<0.5	<0.5
	12/07/92	44.13	<0.5	---	10	10	<0.5	<0.5
	12/07/92[dup]	44.13	<0.5	---	10	9	<0.5	<0.5
	03/01/93	34.82	<0.5	---	<0.5	<0.5	<0.5	<0.5
	06/22/93	36.64	<0.5	---	13	7.9	<0.5	<0.5
	06/22/93[dup]	36.64	<0.5	---	12	6.9	<0.5	<0.5
	09/09/93	39.24	<0.5	---	11	5.9	1.9	<0.5
	09/09/93	39.24	<0.5	---	12	7.3	1.1	<0.5
	12/13/93	40.64	---	---	---	---	---	---
	07/27/94	40.40	<0.4		<0.4	7.5	---	<0.4
	08/09/94	40.71	<0.1	---	10.1	5.8	<0.1	<0.3

Table 2B. **Analytical Results for Ground Water – Non-Fuel Compounds** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TCE	TOG	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE
			← (Concentrations in µg/L) →					
	10/05/94[a]	41.89	<5	---	9	5	<5	<5
	01/04/95	39.81	<0.4	---	12	3.8	---	<0.4
	04/14/95	30.83	<0.4	---	8.4	2.3	<0.4	---
MW-3	03/01/92	42.00	<0.4	---	8.8	2.4	---	<0.4
	06/03/92	44.30	3	---	<0.5	1.5	<0.5	<0.5
	09/01/92	43.62	8.8	---	<0.5	2.3	<0.5	<0.5
	12/07/92	44.77	<0.5	---	10	3	<0.5	<0.5
	03/01/93	35.50	<0.5	---	9.2	9.4	<0.5	<0.5
	06/22/93	37.30	<0.5	---	7.8	9.6	<0.5	<0.5
	09/09/93	39.90	<0.5	---	7.9	7.3	<0.5	<0.5
	12/13/93	41.30	---	---	---	---	---	---
Bailer Blank	09/01/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/07/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
Trip Blank	09/01/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/07/92[b]		<0.5	---	<0.5	<0.5	<0.5	<0.5
	03/01/93		<0.5	---	<0.5	<0.5	<0.5	<0.5
	06/22/93[c]		<0.5	---	<0.5	<0.5	<0.5	<0.5
MCLs			5.0	NE	5.0	100	6.0	10.0

Table 2B. **Analytical Results for Ground Water – Non-Fuel Compounds** - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Abbreviations:

TCE	=	Trichloroethene by EPA Method 601
TOG	=	Total non-polar oil and grease by American Public Health Association Standard Method 503A&E
PCE	=	Tetrachloroethene by EPA Method 601
cis-1,2-DCE	=	cis-1,2-Dichloroethene by EPA Method 601
trans-1,2-DCE	=	trans-1,2-Dichloroethene by EPA Method 601
---	=	Not analyzed
dup	=	Duplicate sample
MCLs	=	California Primary Maximum Contaminant Levels for drinking water (22 CCR 64444)
NE	=	MCL not established
µg/L	=	Micrograms per liter
<n	=	Below detection limit of **n** µg/L
ft	=	Feet

Notes:

a = *Results this date represent* 3rd month of 3rd quarter 1994

b = Sample contained 14 µg/L of 1,3-Dichlorobenzene

c = Although 1.4 µg/L methylene chloride was detected in one of the ground water samples from well MW-2, the laboratory indicated that this was within normal laboratory background concentrations

Chloroform by EPA Method 601

ATTACHMENT A

Blaine Quarterly Ground Water Monitoring Report

BLAINE
TECH SERVICES INC.

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

May 19, 1998

Shell Oil Company
P.O. Box 8080
Martinez, CA 94553

Attn: Alex Perez

Shell WIC #204-6852-0703
1285 Bancroft Avenue
San Leandro, California

2nd Quarter 1998

Groundwater Monitoring Report 980414-D-3

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

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 573-0555 ext. 201.

Yours truly,

Deedee Keen for:

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	04/14/98	TOC	–	NONE	–	–	26.37	59.07
MW-2	04/14/98	TOC	–	NONE	–	–	26.15	58.95
MW-3*	04/14/98	TOC	ODOR	NONE	–	–	26.92	57.92
MW-4	04/14/98	TOC	–	NONE	–	–	27.75	54.60

* Sample DUP was a duplicate sample taken from well MW-3.

SHELL OIL PRODUCTS COMPANY CHAIN OF CUSTODY RECORD

7004964

WIC OR FACILITY ID: 204-6852-0703

Date: 04/14/98

Results to: (•) Consult. ( ) Shell

Page 01 of 01

Site Address: [illegible]

Consultant/Contact: [illegible]

Address: [illegible]

Phone: 707 935-4850

Shell Engineer: A. Perez

Lab: SEQUOIA

TURN AROUND TIME — Select one only: ( ) 24 hrs. ( ) 48 hrs. (•) 15 days (Normal) ( ) Other

CLASS TYPE/DETAIL TYPE — Select one only:
( ) Site Invest (4441) ( ) Wtr Rem/Sys (4453)
( ) Soil Clas/Disp (4442) (•) G.W. Monitor (4461)
( ) Wtr Clas/Disp (4443) ( ) Other
( ) Soil/Air Rem/Sys (4452)

SAMPLE MATRIX — Select one only:
(•) Water ( ) NAPL ( ) Sludge ( ) Sediment
( ) Soil ( ) Vapor ( ) Bedrock ( ) Other

Waste Protocol Number:

Start Time (military): 13:30

Sampled By: D. VENOR

UST Agency:

Analysis Required

Field Sample ID		Sample Time (military)	Composite?	Acid pres.	Cnt.Sz.(40ml)	Cnt.Sz.-Other	Total No. Containers	TPH-P/MBTEX(8015/8021)	TPH-P/BTEX (8015/8021)	MBTEX (8021)	BTEX (8021)	TPH-P (8015m)	TPH-E (8015m)	TPH-xx (8015m)	TRPH (418.1)	MBTEX (8260)	VOCs (8260) (specify)	SVOCs (8270) (specify)	Lead (specify)	Test for Disposal	Other (specify)
MW-1	1	15:05			•		03	•													
MW-2	2	16:05			•		03	•													
MW-3	3	14:20			•		03	•													
MW-4	4	15:40			•		03	•													
EB	5	15:15			•		03	•													
DUP	6	:			•		03	•													

Comments:

LAB USE ONLY

Lab Tracking No.:

Sample Condition/Comments: APR 15 1530

Cooler Temperature: 7.

Material Description

Relinquished By (signature)	Printed Name	Date	Time	Received By (signature)	Printed Name	Date	Time
[signature]	D. Venor	4-15-98	9:55	[signature]	Lance A. Davison	4-15-98	9:55
[signature]	[illegible]	4-15		[signature]			
				[signature]	Dawn Downs	4/15	1130

68143

FORM BY IMTRAN

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

SHELL CHAIN OF CUSTODY REVISED 12/97

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 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
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell 1285 Bancroft Ave.

Enclosed are the results from samples received at Sequoia Analytical on April 15, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9804964 -01	LIQUID, MW-1	04/14/98	Purgeable TPH/BTEX/MTBE
9804964 -02	LIQUID, MW-2	04/14/98	Purgeable TPH/BTEX/MTBE
9804964 -03	LIQUID, MW-3	04/14/98	Purgeable TPH/BTEX/MTBE
9804964 -04	LIQUID, MW-4	04/14/98	Purgeable TPH/BTEX/MTBE
9804964 -05	LIQUID, EB	04/14/98	Purgeable TPH/BTEX/MTBE
9804964 -06	LIQUID, DUP	04/14/98	Purgeable TPH/BTEX/MTBE

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	Client Proj. ID: Shell 1285 Bancroft Ave.	Sampled: 04/14/98
1680 Rogers Avenue	Sample Descript: MW-1	Received: 04/15/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/20/98
Attention: Fran Thie	Lab Number: 9804964-01	Reported: 04/29/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**72**
Methyl t-Butyl Ether	**2.5**	**2.7**
Benzene	**0.50**	**0.82**
Toluene	**0.50**	**4.9**
Ethyl Benzene	**0.50**	**1.8**
Xylenes (Total)	**0.50**	**13**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	103

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

SEQUOIA ANALYTICAL - ELAP #1210

eggy Penner
roject 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 1285 Bancroft Ave.	Sampled: 04/14/98
1680 Rogers Avenue	Sample Descript: MW-2	Received: 04/15/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/20/98
Attention: Fran Thie	Lab Number: 9804964-02	Reported: 04/29/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**12000**
Methyl t-Butyl Ether	**25**	**110**
Benzene	**5.0**	**92**
Toluene	**5.0**	**1500**
Ethyl Benzene	**5.0**	**260**
Xylenes (Total)	**5.0**	**1900**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	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 1285 Bancroft Ave.	Sampled: 04/14/98
1680 Rogers Avenue	Sample Descript: MW-3	Received: 04/15/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/21/98
Attention: Fran Thie	Lab Number: 9804964-03	Reported: 04/29/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**5000**	**100000**
Methyl t-Butyl Ether	**250**	**890**
Benzene	**50**	**270**
Toluene	**50**	**5000**
Ethyl Benzene	**50**	**2100**
Xylenes (Total)	**50**	**17000**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106

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

EQUOIA ANALYTICAL - ELAP #1210

eggy Penner
roject Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Blaine Tech Services	Client Proj. ID: Shell 1285 Bancroft Ave.	Sampled: 04/14/98
1680 Rogers Avenue	Sample Descript: MW-4	Received: 04/15/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/21/98
Attention: Fran Thie	Lab Number: 9804964-04	Reported: 04/29/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**920**
Methyl t-Butyl Ether	**2.5**	**27**
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	96

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 1285 Bancroft Ave.	Sampled: 04/14/98
1680 Rogers Avenue	Sample Descript: EB	Received: 04/15/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/21/98
Attention: Fran Thie	Lab Number: 9804964-05	Reported: 04/29/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**80**
Methyl t-Butyl Ether	**2.5**	**15**
Benzene	**0.50**	**1.2**
Toluene	**0.50**	**17**
Ethyl Benzene	**0.50**	**3.2**
Xylenes (Total)	**0.50**	**16**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

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

SEQUOIA ANALYTICAL - ELAP #1210

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Blaine Tech Services	Client Proj. ID: Shell 1285 Bancroft Ave.	Sampled: 04/14/98
1680 Rogers Avenue	Sample Descript: DUP	Received: 04/15/98
San Jose, CA 95112	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/21/98
Attention: Fran Thie	Lab Number: 9804964-06	Reported: 04/29/98

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**10000**	**49000**
Methyl t-Butyl Ether	**500**	**790**
Benzene	**100**	**230**
Toluene	**100**	**3200**
Ethyl Benzene	**100**	**1200**
Xylenes (Total)	**100**	**8900**
Chromatogram Pattern:		**C6-C12**

Surrogates	**Control Limits %**		**% Recovery**
Trifluorotoluene	70	130	92

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

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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

Client Project ID: Shell 1285 Bancroft Ave.
Matrix: Liquid
Work Order #: 9804964 -01-03
Reported: May 7, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Gasoline
QC Batch#:	701320723
Analy. Method:	EPA 8015M
Prep. Method:	EPA 8020M
Analyst:	-
MS/MSD #:	BLK042098
Sample Conc.:	26.6
Prepared Date:	4/20/98
Analyzed Date:	4/20/98
Instrument I.D.#:	-
Conc. Spiked:	1000 µg/L
Result:	982.1
MS % Recovery:	95.6
Dup. Result:	894.3
MSD % Recov.:	86.8
RPD:	9.4
RPD Limit:	0-50

LCS #:	LCS042098
Prepared Date:	4/20/98
Analyzed Date:	4/20/98
Instrument I.D.#:	-
Conc. Spiked:	1000 µg/L
LCS Result:	986.7
LCS % Recov.:	98.7

MS/MSD	53-146
LCS	79-127
Control Limits	

SEQUOIA ANALYTICAL
Elap #2245

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

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Blaine Tech Services, Inc.	Client Project ID:	Shell 1285 Bancroft Ave.	
1680 Rogers Ave.	Matrix:	Liquid	
San Jose, CA 95112			
Attention: Fran Thle	Work Order #:	9804964-04-06	Reported: May 7, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Gasoline
QC Batch#:	701325565
Analy. Method:	EPA 8015M
Prep. Method:	EPA 8020M
Analyst:	-
MS/MSD #:	BLK042198
Sample Conc.:	11.17
Prepared Date:	4/21/98
Analyzed Date:	4/21/98
Instrument I.D.#:	-
Conc. Spiked:	1000 µg/L
Result:	981
MS % Recovery:	97
Dup. Result:	1030
MSD % Recov.:	102
RPD:	4.9
RPD Limit:	0-50

LCS #:	LCS042198
Prepared Date:	4/21/98
Analyzed Date:	4/21/98
Instrument I.D.#:	-
Conc. Spiked:	1000 µg/L
LCS Result:	1052
LCS % Recov.:	105

MS/MSD	53-146
LCS	79-127
Control Limits	

SEQUOIA ANALYTICAL
Elap #2245

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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.

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

Client Proj. ID: Shell 1285 Bancroft Ave.
Lab Proj. ID: 9804964

Received: 04/15/98
Reported: 04/29/98

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

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