

C A M B R I A

20254

ENVIRONMENTAL
PROTECTION
53 FEB 17 PM February 9, 1999

Susan Hugo
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Fourth Quarter 1998 Monitoring Report**
Shell-branded Service Station
1800 Powell Street
Emeryville, California
WIC# 204-2495-0101
Cambria Project# 24-314-498



Dear Ms. Hugo:

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

FOURTH QUARTER 1998 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water depths and collected water samples from all site wells except well S-9. Well S-9 contained thick, black separate-phase hydrocarbons (SPH). Blaine calculated ground water elevations and compiled the analytical data (Table 1). Cambria prepared a ground water elevation contour map (Figure 1). The Blaine report, presenting the laboratory report, is included as Attachment A.

ANTICIPATED FUTURE 1999 ACTIVITIES

Ground Water Monitoring: The next sampling event is scheduled for first quarter 1999. At that time, Blaine will measure ground water depths, remove detected SPH, and tabulate the data. Cambria will prepare a monitoring report.

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

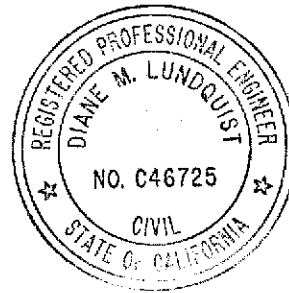
We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc



Darryk Ataide
Project Environmental Scientist

Diane M. Lundquist, P.E.
Principal Engineer



Attachment: A - Blaine Ground Water Monitoring Report

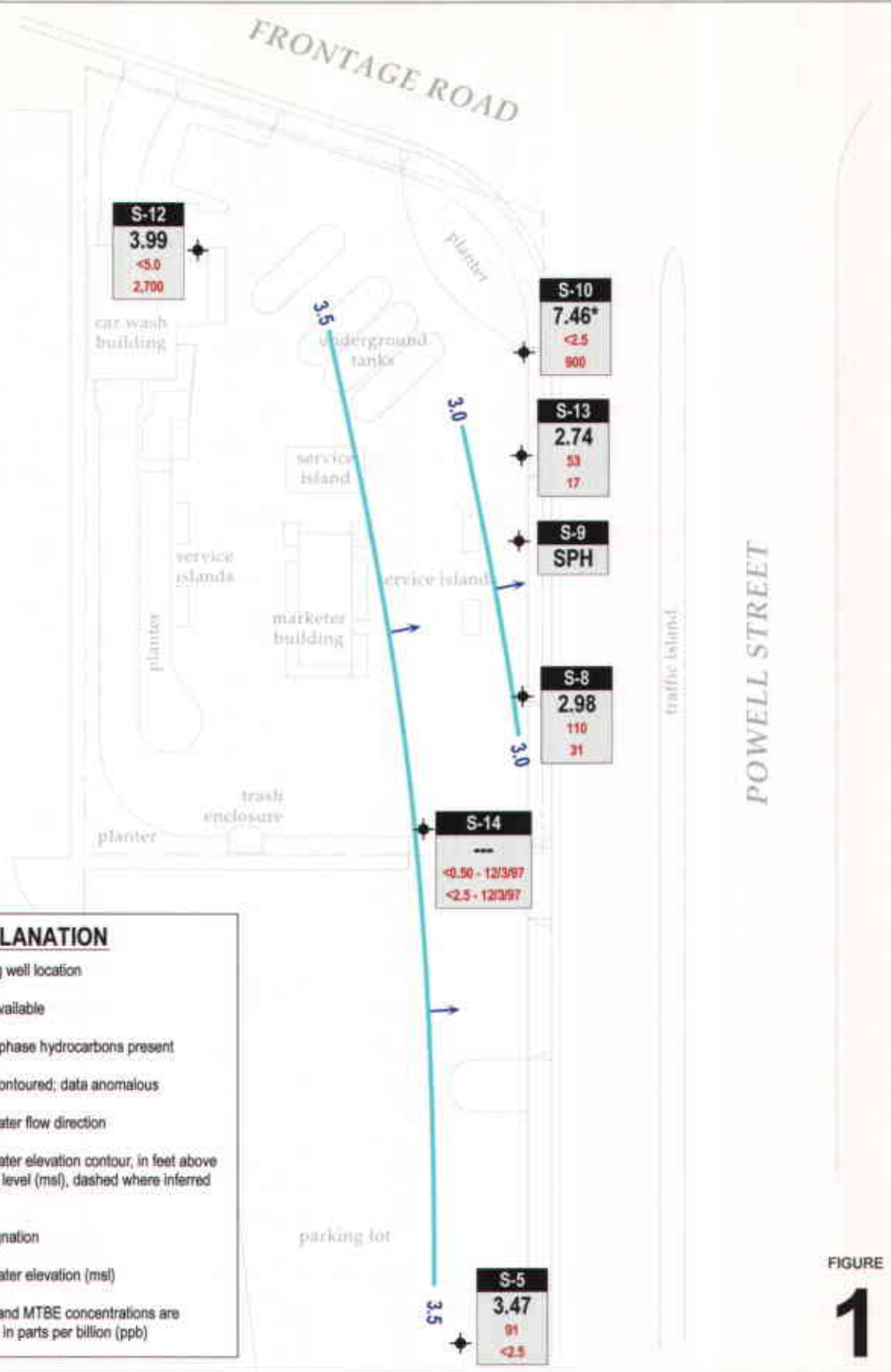
cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California 90749

g:\emeryville1800\qm\4q98qm.doc

FRONTAGE ROAD



0 20 40
Scale (ft)



EXPLANATION

MW-1 ◆

Monitoring well location

No data available

SPH

Separate-phase hydrocarbons present

*

Well not contoured; data anomalous

→

Ground water flow direction

— XX.XX

Ground water elevation contour, in feet above mean sea level (msl), dashed where inferred

Well

Well designation

ELEV

Ground water elevation (msl)

Benzene
MTBE

Benzene and MTBE concentrations are measured in parts per billion (ppb)

FIGURE

1

01/12/99

Shell-branded Service Station

1800 Powell Street
Emeryville, California
WIC #204-2495-0101



C A M B R I A

Ground Water Elevation Contour Map

November 6, 1998

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

January 6, 1998

Equiva Services, L.L.C.
P.O. Box 6249
Carson, CA 90749-6249

Attn: Karen Petryna

Shell WIC #204-2495-0101
1800 Powell Street
Emeryville, California

4th Quarter 1998

Groundwater Monitoring Report 981106-Z-3

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) 995-5535 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: Anni Kreml

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA
Wic #204-2495-0101

Well ID	Sample Date	Top of Box Elevation (ft)	Measured GW Depth (ft)	Corrected GW Elevation (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	TPH-D (ug/L)	DO (ppm)	Comments
S-5	26-Oct-84	11.72	NA	NA	0.00	3,000	660	20	20	70	NA	NA	NA	NA	
S-5	09-Feb-85	11.72	NA	NA	0.00	2,800	740	20	20	140	NA	NA	NA	NA	
S-5	27-Apr-85	11.72	NA	NA	0.00	4,300	750	10	20	<30	NA	NA	NA	NA	
S-5	06-Jul-85	11.72	NA	NA	0.00	1,500	300	8	7	9	NA	NA	NA	NA	
S-5	24-Oct-85	11.72	NA	NA	0.00	2,100	760	10	40	50	NA	NA	NA	NA	
S-5	03-Jan-86	11.72	NA	NA	0.00	1,300	520	9	8	10	NA	NA	NA	NA	
S-5	05-Jul-86	11.72	8.36	3.36	0.00	1,400	500	10	4	<10	NA	NA	NA	NA	
S-5	18-Oct-86	11.72	NA	NA	0.00	4,200	1,100	9	14	7	NA	NA	NA	NA	
S-5	13-Jan-87	11.72	NA	NA	0.00	4,500	1,100	15	30	25	NA	NA	6,100	NA	
S-5	07-Jul-87	11.72	9.15	2.57	0.00	3,200	1,000	16	9	12	NA	NA	NA	NA	
S-5	10-Oct-87	11.72	9.67	2.05	0.00	1,700	16	5.7	5.2	8.9	NA	NA	NA	NA	
S-5	11-Feb-88	11.72	9.00	2.72	0.00	1,300	300	5	<5	<5	NA	NA	NA	NA	
S-5	10-May-88	11.72	8.61	3.11	0.00	1,900	490	<0.5	<5	<5	NA	NA	NA	NA	
S-5	31-Aug-88	11.72	9.61	2.11	0.00	6,700	760	26	<25	<25	NA	NA	NA	NA	
S-5	03-Dec-88	11.72	9.47	2.25	0.00	2,900	890	5.3	7.3	13	NA	NA	NA	NA	
S-5	16-Feb-89	11.72	8.29	3.43	0.00	1,300	280	3	3.4	9.4	NA	NA	NA	NA	
S-5	10-Aug-89	11.72	9.30	2.42	0.00	1,700	530	5.5	<5	5.8	NA	NA	NA	NA	
S-5	11-Nov-89	11.72	9.42	2.30	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-5	21-Feb-94	11.72	7.95	3.77	0.00	1,000	250	<5	<5	<5	NA	NA	NA	NA	
S-5	16-May-94	11.72	8.00	3.72	0.00	1,200	230	<5	<5	<5	NA	NA	NA	NA	
S-5	09-Aug-94	11.72	NA	NA	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	Inaccessible
S-5	09-Nov-94	11.72	8.32	3.40	0.00	1,600	220	3.2	1.8	5	NA	NA	NA	NA	
S-5	22-Feb-95	11.72	NA	NA	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	Inaccessible
S-5	02-May-95	11.72	NA	NA	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	Inaccessible
S-5	10-May-95	11.72	NA	NA	0.00	910	170	1.5	1.3	5.2	NA	NA	NA	NA	
S-5	24-Aug-95	11.72	8.78	2.94	0.00	620	210	<0.5	1.2	5.3	NA	NA	NA	NA	
S-5	08-Dec-95	11.72	9.78	1.94	0.00	1,600	510	3.3	1.5	6.6	NA	NA	NA	NA	
S-5	29-Feb-96	11.72	7.64	4.08	0.00	1,900	470	5.8	<5.0	<5.0	46	NA	NA	NA	

WELL CONCENTRATIONS
Shell-Branded Service Station
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Emeryville, CA
Wic #204-2495-0101

Well ID	Sample Date	Top of Box Elevation (ft)	Measured GW Depth (ft)	Corrected GW Elevation (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	TPH-D (ug/L)	DO (ppm)	Comments
S-5	22-May-96	11.72	8.60	3.12	0.00	1,200	490	<10	<10	<10	<50	NA	NA	NA	
S-5	30-Jul-96	11.72	9.40	2.32	0.00	1,100	400	<5.0	<5.0	6.9	<25	NA	NA	NA	
S-5	11-Nov-96	11.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Inaccessible
S-5	03-Nov-97	11.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Inaccessible
S-5	06-Nov-98	11.72	8.25	3.47	0.00	620	91	<0.50	0.64	4.0	<2.5	NA	NA	NA	
S-6	27-Apr-85	NA	NA	NA	0.00	6,500	2,400	30	50	210	NA	NA	NA	NA	
S-6	06-Jul-85	NA	NA	NA	0.00	3,700	1,700	34	55	200	NA	NA	NA	NA	
S-6	24-Oct-85	NA	NA	<50	0.00	23	<5	10	NA	NA	NA	NA	<0.5	NA	Well Abandoned 11/8/85
S-7	26-Oct-84	NA	NA	NA	0.00	50	1.1	<1	<1	4	NA	NA	NA	NA	
S-7	09-Feb-85	NA	NA	NA	0.00		0.9	<1	<1	<3	NA	NA	NA	NA	
S-7	27-Apr-85	NA	NA	NA	0.00	<50	<1	<1	<1	<3	NA	NA	NA	NA	
S-7	06-Jul-85	NA	NA	NA	0.00	70	2.2	<1	<1	<3	NA	NA	NA	NA	
S-7	24-Oct-85	NA	NA	NA	0.00	6,200	2,200	130	190	660	NA	NA	NA	NA	Well Abandoned 11/9/85
S-8	26-Oct-84	12.76	NA	NA	0.00	1,000	610	9	1	42	NA	NA	NA	NA	
S-8	09-Feb-85	12.76	NA	NA	0.00	500	160	5	<2	17	NA	NA	NA	NA	
S-8	27-Apr-85	12.76	NA	NA	0.00	2,700	1500	20	10	40	NA	NA	NA	NA	
S-8	06-Jul-85	12.76	NA	NA	0.00	440	180	5	2	12	NA	NA	NA	NA	
S-8	24-Oct-85	12.76	NA	NA	0.00	2,000	1,100	17	5	70	NA	NA	NA	NA	
S-8	03-Jan-86	12.76	NA	NA	0.00	1,900	1,300	20	<10	70	NA	NA	NA	NA	
S-8	05-Jul-86	12.76	9.50	3.26	0.00	1,600	920	30	<10	60	NA	NA	NA	NA	
S-8	18-Oct-86	12.76	NA	NA	0.00	1,400	640	<10	<10	30	NA	NA	NA	NA	
S-8	13-Jan-87	12.76	NA	NA	0.00	670	190	5.8	<0.5	19	NA	NA	760	NA	
S-8	22-Apr-87	12.76	NA	NA	0.00	2,400	740	54	5.7	59	NA	NA	NA	NA	
S-8	07-Jul-87	12.76	10.45	2.31	0.00	1,100	450	15	<2.5	42	NA	NA	NA	NA	
S-8	10-Oct-87	12.76	10.83	1.93	0.00	340	4	0.6	<0.5	17	NA	NA	NA	NA	

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S-9	03-Jan-86	12.75	NA	NA	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	11-Apr-86	12.75	NA	NA	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	05-Jul-86	12.75	9.67	3.08	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	18-Oct-86	12.75	NA	NA	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	13-Jan-87	12.75	NA	NA	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	22-Apr-87	12.75	NA	NA	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	07-Jul-87	12.75	NA	NA	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	10-Oct-87	12.75	22.30	-9.55	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	24-Feb-94	12.75	NA	NA	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	16-May-94	12.75	NA	NA	1.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	09-Aug-94	12.75	11.80	NA	2.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	09-Nov-94	12.75	NA	NA	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	22-Feb-95	12.75	11.40	NA	2.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	02-May-95	12.75	11.83	NA	2.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	08-Dec-95	12.75	11.92	NA	1.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	02/29/96#	12.75	12.10	2.88	2.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	05/22/96#	12.75	11.71	2.44	1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	07/30/96#	12.75	NA	NA	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	11/11/96#	12.75	NA	NA	9.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-9	03-Nov-97	12.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Inaccessible
S-9	06-Nov-98	12.75	NA	NA	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	

S-10	26-Oct-84	12.58	NA	NA	0.00	700,000	37,000	100,000	20,000	110,000	NA	NA	NA	NA	
S-10	09-Feb-85	12.58	NA	NA	0.00	6,500	480	700	100	1,800	NA	NA	NA	NA	
S-10	27-Apr-85	12.58	NA	NA	0.00	13,000	1,300	500	600	3,700	NA	NA	NA	NA	
S-10	06-Jul-85	12.58	NA	NA	0.00	14,000	1,300	310	270	2,400	NA	NA	NA	NA	
S-10	24-Oct-85	12.58	NA	NA	0.00	4,200	580	34	4	440	NA	NA	NA	NA	
S-10	03-Jan-86	12.58	NA	NA	0.00	1,700	360	10	7.8	170	NA	NA	NA	NA	

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
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Well ID	Sample Date	Top of Box Elevation (ft)	Measured GW Depth (ft)	Corrected GW Elevation (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	TPH-D (ug/L)	DO (ppm)	Comments
S-10	11-Apr-86	12.58	NA	NA	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-10	05-Jul-86	12.58	9.16	3.42	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-10	18-Oct-86	12.58	NA	NA	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-10	13-Jan-87	12.58	NA	NA	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-10	22-Apr-87	12.58	NA	NA	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-10	07-Jul-87	12.58	9.41	3.17	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-10	10-Oct-87	12.58	7.77	4.81	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-10	11-Feb-88	12.58	6.41	6.17	0.00	1,200	470	16	<5	14	NA	NA	NA	NA	
S-10	10-May-88	12.58	9.04	3.54	0.00	1,100	100	6	4	19	NA	NA	NA	NA	
S-10	31-Aug-88	12.58	9.38	3.20	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-10	03-Dec-88	12.58	6.89	5.69	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-10	16-Feb-89	12.58	7.34	5.24	0.00	530	89	8.5	1.6	4.5	NA	NA	NA	NA	
S-10	28-May-89	12.58	6.60	5.98	0.00	240	65	3.8	2.2	8.6	NA	NA	NA	NA	
S-10	10-Aug-89	12.58	9.09	3.49	0.00	250	23	4.1	<1	6.4	NA	NA	NA	NA	
S-10	11-Nov-89	12.58	6.58	6.00	0.00	320	1.6	1.3	1.4	6.2	NA	NA	NA	NA	
S-10	21-Feb-94	12.58	8.32	4.26	0.00	1,400	190	9.9	<2.5	19	NA	NA	NA	NA	
S-10	16-May-94	12.58	8.35	4.23	0.00	300	45	8.6	6.2	19	NA	NA	NA	NA	
S-10	08-Aug-94	12.58	8.66	3.92	0.00	700	57	14	<0.5	9.3	NA	NA	NA	NA	
S-10	09-Nov-94	12.58	6.68	5.90	0.00	640	130	2	1.6	4.1	NA	NA	NA	NA	
S-10	22-Feb-95	12.58	9.12	3.46	0.00	500	65	5.9	1	8.2	NA	NA	NA	NA	
S-10	02-May-95	12.58	9.50	3.08	0.00	530	59	2.3	0.8	8.2	NA	NA	NA	NA	
S-10	24-Aug-95	12.58	10.06	2.52	0.00	350	35	4.6	<0.5	6.7	NA	NA	NA	NA	
S-10	08-Dec-95	12.58	10.08	2.50	0.00	690	28	4.6	0.9	8.6	NA	NA	NA	NA	
S-10	29-Feb-96	12.58	5.32	7.26	0.00	430	32	1.8	0.5	5.8	16	NA	NA	NA	
S-10	22-May-96	12.58	6.04	6.54	0.00	100	19	0.63	<0.5	1.4	5.3	NA	1,200	NA	
S-10	30-Jul-96	12.58	10.48	2.10	0.00	240	17	<1.2	<1.2	7.8	11	NA	13,000	NA	
S-10	11-Nov-96	12.58	10.31	2.27	0.00	370	16	1.1	<0.5	7	94	NA	4,800	NA	
S-10	03-Nov-97	12.58	9.53	3.05	0.00	340	6.7	2.1	<0.50	3.3	19	NA	1,100	NA	

WELL CONCENTRATIONS
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S-10	06-Nov-98	12.58	5.12	7.46	0.00	<250	<2.5	<2.5	<2.5	6.5	900	NA	2,000	NA	
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S-12	06-Jul-85	12.84	8.22	NA	0.00	<250	0.71	<0.5	<0.5	<3.6	NA	NA	2,200	NA	
S-12	16-Nov-85	12.84	NA	NA	0.00	<250	18	<2	<2	<5	NA	NA	1,400	NA	
S-12	03-Jan-86	12.84	NA	NA	0.00	<250	24	2	<2	<5	NA	NA	NA	NA	
S-12	05-Jul-86	12.84	8.27	4.57	0.00	80	15	0.7	<0.5	2	NA	NA	NA	NA	
S-12	18-Oct-86	12.84	NA	NA	0.00	150	12	9	<0.5	3.6	NA	NA	NA	NA	
S-12	13-Jan-87	12.84	NA	NA	0.00	120	3.6	0.8	<0.5	2.9	NA	NA	1,000	NA	
S-12	22-Apr-87	12.84	NA	NA	0.00	100	3.7	3.8	0.8	11	NA	NA	820	NA	
S-12	07-Jul-87	12.84	9.50	3.34	0.00	70	2.5	0.8	<0.5	2.4	NA	NA	NA	NA	
S-12	10-Oct-87	12.84	9.90	2.94	0.00	220	2.1	0.7	<0.5	1.2	NA	NA	2,500	NA	
S-12	11-Feb-88	12.84	9.43	3.41	0.00	110	0.8	<0.5	<0.5	1.3	NA	NA	2,500	NA	
S-12	10-May-88	12.84	8.65	4.19	0.00	140	0.8	0.8	<0.5	2.5	NA	NA	3,800b	NA	
S-12	31-Aug-88	12.84	9.86	2.98	0.00	190	3	15	0.5	4.5	NA	NA	2,600b	NA	
S-12	03-Dec-88	12.84	9.93	2.91	0.00	180	1.2	1	1	7.7	NA	NA	3,900b	NA	
S-12	16-Feb-89	12.84	8.08	4.76	0.00	350c	0.6	<0.5	0.5	5.5	NA	NA	2,100b	NA	
S-12	28-May-89	12.84	9.08	3.76	0.00	290	2	1.6	4.4	6	NA	NA	2,200	NA	
S-12	10-Aug-89	12.84	9.35	3.49	0.00	240	0.7	<0.5	<0.5	1.1	NA	NA	720	NA	
S-12	11-Nov-89	12.84	9.28	3.56	0.00	210c	0.7	0.5	<0.5	3.4	NA	NA	4,100	NA	
S-12	21-Feb-94	12.84	8.22	4.62	0.00	240d	0.7	<0.5	<0.5	3.6	NA	NA	2,200e	NA	
S-12	16-May-94	12.84	8.92	3.92	0.00	96	1.5	<0.5	<0.5	2	NA	NA	2,200	NA	
S-12	08-Aug-94	12.84	NA	0.00	0.00	110f	<0.5	<0.5	<0.5	<0.5	NA	NA	3,500g	NA	
S-12	09-Nov-94	12.84	7.56	5.28	0.00	80	80	<0.5	<0.5	0.6	NA	NA	5,400g	NA	
S-12	22-Feb-95	12.84	7.98	4.86	0.00	110	0.7	<0.5	<0.5	3.7	NA	NA	2,900g,h	NA	
S-12	02-May-95	12.84	8.44	4.40	0.00	140	2.4	1.1	0.8	4.3	NA	NA	2,800	NA	
S-12	24-Aug-95	12.84	9.00	3.84	0.00	200	19	12	5.6	24	NA	NA	1,600	NA	
S-12	08-Dec-95	12.84	9.62	3.22	0.00	170	2.2	0.7	0.9	3.6	NA	NA	2,700	NA	
S-12	29-Feb-96	12.84	7.64	5.20	0.00	1,700	<5.0	<5.0	<5.0	<5.0	5,600	NA	2,200	NA	

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA
Wic #204-2495-0101

Well ID	Sample Date	Top of Box Elevation (ft)	Measured GW Depth (ft)	Corrected GW Elevation (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	TPH-D (ug/L)	DO (ppm)	Comments
S-12	22-May-96	12.84	8.94	3.90	0.00	<1,000	<10	<10	<10	<10	2,400	NA	5,700	NA	
S-12	30-Jul-96	12.84	9.71	3.13	0.00	<500	<5.0	<5.0	<5.0	<5.0	1,500	NA	3,200	NA	
S-12	11-Nov-96	12.84	9.65	3.19	0.00	<500	<5.0	<5.0	<5.0	<5.0	1,400	NA	6,900	NA	
S-12	03-Nov-97	12.84	8.73	4.11	0.00	110	2.1	<0.50	<0.50	1.3	NA	NA	2,800	NA	
S-12	06-Nov-98	12.84	8.85	3.99	0.00	<500	<5.0	<5.0	<5.0	<5.0	2700	NA	2,900	NA	
S-13	06-Jul-85	12.59	9.26	NA	0.00	700	200	<5	<5	45	NA	NA	3,600	NA	
S-13	16-Nov-85	12.59	NA	NA	0.00	1,900	700	160	70	340	NA	NA	2,000	NA	
S-13	03-Jan-86	12.59	NA	NA	0.00	2,800	1,400	130	10	500	NA	NA	NA	NA	
S-13	05-Jul-86	12.59	9.47	3.12	0.00	3,100	1,800	60	40	270	NA	NA	NA	NA	
S-13	23-Oct-86	12.59	NA	NA	0.00	3,400	1,500	28	28	250	NA	NA	NA	NA	
S-13	13-Jan-87	12.59	NA	NA	0.00	1,900	830	15	<10	99	NA	NA	900	NA	
S-13	22-Apr-87	12.59	NA	NA	0.00	2,900c	1,100	20	30	140	NA	NA	770h	NA	
S-13	07-Jul-87	12.59	10.38	2.21	0.00	1,500	880	10	6	160	NA	NA	NA	NA	
S-13	10-Oct-87	12.59	10.78	1.81	0.00	480	830	15	<0.5	120	NA	NA	2,400	NA	
S-13	11-Feb-88	12.59	10.48	2.11	0.00	1,300	510	<10	<10	86	NA	NA	1,300	NA	
S-13	10-May-88	12.59	9.48	3.11	0.00	1,000	470	<0.5	<5	50	NA	NA	1,300b	NA	
S-13	31-Aug-88	12.59	10.74	1.85	SPH	NA	NA	NA	NA	NA	NA	NA	NA	NA	
S-13	03-Dec-88	12.59	10.30	2.29	0.00	900	290	4.6	<2.5	20	NA	NA	2,400b	NA	
S-13	16-Feb-89	12.59	7.60	4.99	0.00	840c	310	3.5	<2.5	27	NA	NA	1,200b	NA	
S-13	28-May-89	12.59	10.60	1.99	0.00	2,100	1,100	19	50	350	NA	NA	4,600	NA	
S-13	10-Aug-89	12.59	10.58	2.01	0.00	900	230	16	6.9	65	NA	NA	2,300	NA	
S-13	11-Nov-89	12.59	9.84	2.75	0.00	2,800	200	15	8.6	58	NA	NA	2,800	NA	
S-13	21-Feb-94	12.59	9.26	3.33	0.00	700	200	<5	<5	45	NA	NA	1,800d	NA	
S-13	16-May-94	12.59	9.62	2.97	0.00	650	180	2.5	<2.5	21	NA	NA	1,700	NA	
S-13	08-Aug-94	12.59	10.32	2.27	0.00	470	12	1.5	0.5	14	NA	NA	2,600g	NA	
S-13	09-Nov-94	12.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Inaccessible
S-13	22-Feb-95	12.59	8.92	3.67	0.00	550	190	4	<0.5	17	NA	NA	2,400g,h	NA	

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA
Wic #204-2495-0101

Well ID	Sample Date	Top of Box Elevation (ft)	Measured GW Depth (ft)	Corrected GW Elevation (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	TPH-D (ug/L)	DO (ppm)	Comments
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S-13	02-May-95	12.59	9.52	3.07	0.00	790	250	6.9	1.2	22	NA	NA	2,100	NA	
S-13	24-Aug-95	12.59	10.02	2.57	0.00	330	93	<0.5	<0.5	2	NA	NA	1,500	NA	
S-13	08-Dec-95	12.59	10.75	1.84	0.00	440	110	2.2	0.8	23	NA	NA	2,400	NA	
S-13	29-Feb-96	12.59	9.02	3.57	0.00	560	130	<5.0	<5.0	30	30	NA	2,500	NA	
S-13	22-May-96	12.59	10.20	2.39	0.00	430	55	1.6	310	27	<5.0	NA	3,700	NA	
S-13	30-Jul-96	12.59	10.42	2.17	0.00	230	30	2	1.4	17	15	NA	1,600	NA	
S-13	11-Nov-96	12.59	10.28	2.31	0.00	320	19	1.1	<0.5	14	3.5	NA	2,700	NA	
S-13	03-Nov-97	12.59	9.36	3.23	0.00	300	25	1.4	0.63	12	5.0	NA	1,900	NA	
S-13	06-Nov-98	12.69	9.85	2.74	0.00	390	53	2.9	1.1	13	17	NA	1,300	NA	

S-14	16-Nov-85	12.69	NA	NA	0.00	<250	3	<2	<2	<5	NA	NA	400	NA	
S-14	03-Jan-86	12.69	NA	NA	0.00	<250	3	2	<2	<5	NA	NA	NA	NA	
S-14	22-Apr-87	12.69	NA	NA	0.00	1,200	7.4	2.7	15	110	NA	NA	18,000	NA	
S-14	07-Jul-87	12.69	10.32	2.37	0.00	190	6.5	0.6	1.9	26	NA	NA	NA	NA	
S-14	10-Oct-87	12.69	10.77	1.92	0.00	4,900	7	1.2	<0.5	25	NA	NA	21,000	NA	
S-14	11-Feb-88	12.69	10.40	2.29	0.00	370	4.6	<2.5	<2.5	26	NA	NA	12,000c	NA	
S-14	10-May-88	12.69	9.66	3.03	0.00	660	2.9	<2.5	<2.5	24	NA	NA	2,200b	NA	
S-14	31-Aug-88	12.69	10.74	1.95	0.00	700	3.2	<2.5	<2.5	15	NA	NA	7,900	NA	
S-14	03-Dec-88	12.69	10.69	2.00	0.00	210	<0.5	<0.5	0.8	6.8	NA	NA	11,000b	NA	
S-14	16-Feb-89	12.69	9.69	3.00	0.00	130c	<0.5	<0.5	<0.5	4.4	NA	NA	5,700b	NA	
S-14	28-May-89	12.69	10.42	2.27	0.00	770	<0.5	<0.5	<0.5	4.5	NA	NA	5,200	NA	
S-14	10-Aug-89	12.69	10.54	2.15	0.00	920	<1	<1	1.6	17	NA	NA	8,800	NA	
S-14	11-Nov-89	12.69	9.91	2.78	0.00	710	20	57	25	69	NA	NA	28,000	NA	
S-14	21-Feb-94	12.69	9.30	3.09	0.00	2,800	<5	<5	<5	14	NA	NA	3,600	NA	
S-14	21-Feb-94	12.69	9.30	3.39	0.00	2,300d	<5.0	<5	<5	14	NA	NA	3,600e	NA	
S-14	16-May-94	12.69	9.54	3.15	0.00	310	<2.5	<2.5	<2.5	3.1	NA	NA	6,700	NA	
S-14	08-Aug-94	12.69	10.29	2.40	0.00	480i	<0.5	0.6	<0.5	0.8	NA	NA	2,900	NA	
S-14	09-Nov-94	12.69	9.52	3.07	0.00	170i	0.7	<0.5	<0.5	2.7	NA	NA	6,400g	NA	

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
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Wic #204-2495-0101

Well ID	Sample Date	Top of Box Elevation (ft)	Measured GW Depth (ft)	Corrected GW Elevation (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	TPH-D (ug/L)	DO (ppm)	Comments
S-14	22-Feb-95	12.69	9.18	3.51	0.00	550	<0.5	<0.5	<0.5	1.6	NA	NA	7,000g,h	NA	
S-14	02-May-95	12.69	9.49	3.20	0.00	210	1	0.9	1.1	6.3	NA	NA	2,300	NA	
S-14	24-Aug-95	12.69	9.94	2.75	0.00	180	0.5	<0.5	<0.5	1.3	NA	NA	3,700	NA	
S-14	08-Dec-95	12.69	10.65	2.04	0.00	190	1	<0.5	0.6	4.6	NA	NA	4,900	NA	
S-14	29-Feb-96	12.69	8.90	3.79	0.00	200	<0.5	<0.5	<0.5	2	3	NA	11,000	NA	
S-14	22-May-96	12.69	10.10	2.59	0.00	93	<0.5	<0.5	<0.5	1.6	<2.5	NA	3,800	NA	
S-14	30-Jul-96	12.69	10.37	2.32	0.00	<50	<0.5	<0.5	<0.5	0.89	<2.5	NA	2,500	NA	
S-14	11-Nov-96	12.69	10.29	2.40	0.00	2,600	<2.5	<2.5	<2.5	3.9	<12	NA	27,000	NA	
S-14	03-Nov-97	12.69	9.52	3.17	0.00	430	<0.50	<0.50	<0.50	1.7	<2.5	NA	1,800	NA	
S-14	06-Nov-98	12.69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Inaccessible

Abbreviations:

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

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

MTBE = methyl-tertiary-butyl ether

TPH-D = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

TDS = Total dissolved solids

= Separate-phase hydrocarbons

<x = Not detected at detection limit of x

NA = Not analyzed or not available

- b = Compounds detected within the chromatographic range appear to be weathered diesel
- c = Compounds detected within the chromatographic range of gasoline but not characteristic of the standard gasoline pattern
- d = The concentrations reported as gasoline for samples S-12 and S-14 are primarily due to the presence of a discrete peak
- e = The concentrations reported as diesel for samples S-12, S-13 and S-14 are due to the presence of a combination of diesel and a heavier petrole
- f = The result for gasoline is an unknown hydrocarbon which consists of several peaks
- g = The positive result appears to be a heavier hydrocarbon than diesel

WELL CONCENTRATIONS
Shell-Branded Service Station
1800 Powell Street
Emeryville, CA
Wic #204-2495-0101

Well ID	Sample Date	Top of Box Elevation (ft)	Measured GW Depth (ft)	Corrected GW Elevation (ft)	SP (ft)	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE EPA 8020 (ug/L)	MTBE EPA 8260 (ug/L)	TPH-D (ug/L)	DO (ppm)	Comments
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h = Compounds detected within the chromatographic range of diesel appears to include gasoline compounds
i = The positive result appears to be a heavier hydrocarbon than gasoline
j = No MTBE could be determined due to co-elution with early eluting compounds
* = MTBE confirmed by EPA Method 8260
= Tar-like substance in well, probably from previous landfill activities; not gasoline



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

Project: Shell 1800 Powell St.

Enclosed are the results from samples received at Sequoia Analytical on November 9, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9811544 -01	LIQUID, S-5	11/06/98	Purgeable TPH/BTEX/MTBE
9811544 -02	LIQUID, S-8	11/06/98	Purgeable TPH/BTEX/MTBE
9811544 -03	LIQUID, S-10	11/06/98	Purgeable TPH/BTEX/MTBE
9811544 -03	LIQUID, S-10	11/06/98	TPHD_W Extractable TPH
9811544 -04	LIQUID, S-12	11/06/98	Purgeable TPH/BTEX/MTBE
9811544 -04	LIQUID, S-12	11/06/98	TPHD_W Extractable TPH
9811544 -05	LIQUID, S-13	11/06/98	Purgeable TPH/BTEX/MTBE
9811544 -05	LIQUID, S-13	11/06/98	TPHD_W Extractable TPH

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 Fenner
Project Manager





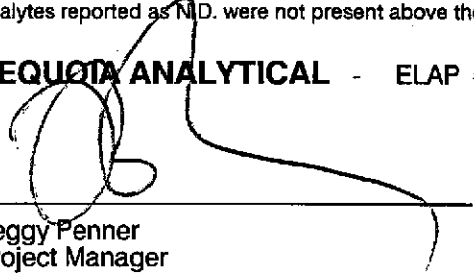
Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell 1800 Powell St. Sample Descript: S-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811544-01	Sampled: 11/06/98 Received: 11/09/98 Analyzed: 11/14/98 Reported: 11/25/98
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Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	620
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	91
Toluene	0.50	N.D.
Ethyl Benzene	0.50	0.64
Xylenes (Total)	0.50	4.0
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102

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 1800 Powell St. Sample Descript: S-8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811544-02	Sampled: 11/06/98 Received: 11/09/98 Analyzed: 11/14/98 Reported: 11/25/98
Attention: Fran Thie		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	740
Methyl t-Butyl Ether	2.5	31
Benzene	0.50	110
Toluene	0.50	10
Ethyl Benzene	0.50	2.8
Xylenes (Total)	0.50	26
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	117

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Fenner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell 1800 Powell St. Sample Descript: S-10 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811544-03	Sampled: 11/06/98 Received: 11/09/98 Analyzed: 11/14/98 Reported: 11/25/98
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Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	N.D.
Methyl t-Butyl Ether	12	900
Benzene	2.5	N.D.
Toluene	2.5	N.D.
Ethyl Benzene	2.5	N.D.
Xylenes (Total)	2.5	6.5
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	108

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





**Sequoia
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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell 1800 Powell St. Sample Descript: S-10 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9811544-03	Sampled: 11/06/98 Received: 11/09/98 Extracted: 11/17/98 Analyzed: 11/21/98 Reported: 11/25/98
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QC Batch Number: GC1117980HBPEXY
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	2000 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 122

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
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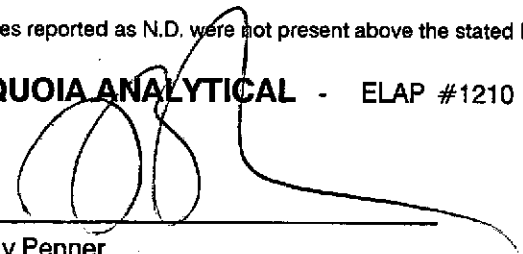
Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1800 Powell St. Sample Descript: S-12 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811544-04	Sampled: 11/06/98 Received: 11/09/98 Analyzed: 11/14/98 Reported: 11/25/98
Attention: Fran Thie		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	N.D.
Methyl t-Butyl Ether	25	2700
Benzene	5.0	N.D.
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	105

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1800 Powell St. Sample Descript: S-12 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9811544-04	Sampled: 11/06/98 Received: 11/09/98 Extracted: 11/17/98 Analyzed: 11/23/98 Reported: 11/25/98
Attention: Fran Thie		

QC Batch Number: GC1117980HBPEXY
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	100	2900 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 165 Q

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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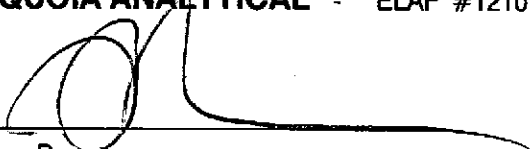
Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell 1800 Powell St. Sample Descript: S-13 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811544-05	Sampled: 11/06/98 Received: 11/09/98 Analyzed: 11/14/98 Reported: 11/25/98
--	--	---

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	390
Methyl t-Butyl Ether	2.5	17
Benzene	0.50	53
Toluene	0.50	2.9
Ethyl Benzene	0.50	1.1
Xylenes (Total)	0.50	13
Chromatogram Pattern:		C6-C12
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 #1210


Peggy Penner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1800 Powell St. Sample Descript: S-13 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9811544-05	Sampled: 11/06/98 Received: 11/09/98 Extracted: 11/18/98 Analyzed: 11/20/98 Reported: 11/25/98
Attention: Fran Thie		

QC Batch Number: GC1118980HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	1300 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 97

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 Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 1800 Powell St.

QC Sample Group: 9811544-03-04

Reported: Nov 25, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015A
Analyst: G.WARDLE

ANALYTE Diesel

QC Batch #: GC1117980HBPEXY

Sample No.: 9811755-1
Date Prepared: 11/17/98
Date Analyzed: 11/20/98
Instrument I.D.#: GCHP5A

Sample Conc., ug/L: 120
Conc. Spiked, ug/L: 1000

Matrix Spike, ug/L: 990
% Recovery: 87

**Matrix
pike Duplicate, ug/L:** 970
% Recovery: 85

Relative % Difference: 2.3

RPD Control Limits: 0-50

LCS Batch#: BLK111798YS

Date Prepared: 11/17/98
Date Analyzed: 11/20/98
Instrument I.D.#: GCHP5A

Conc. Spiked, ug/L: 1000

Recovery, ug/L: 980
LCS % Recovery: 98

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

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





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Analytical

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Blaine Tech Services 1680 Rogers Ave. San Jose, CA 95112 Attention: Fran Thie	Client Project ID: Shell 1800 Powell St.
QC Sample Group: 9811544-05	Reported: Nov 25, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015A
Analyst: G.WARDLE
ANALYTE Diesel

QC Batch #: GC1118980HBPEXB

LCS ID: BLK111898BS

Date Prepared: 11/18/98
Date Analyzed: 11/19/98
Instrument I.D.#: GCHP4A

Conc. Spiked, ug/L: 1000

Blank Spike, ug/L: 770
% Recovery: 77

Blank
pike Duplicate, ug/L: 730
% Recovery: 73

relative % Difference: 5.3

% Recovery
Control Limits: 50-150

RPD Control Limits: 0-50

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

Client Project ID: Shell 1800 Powell St.
Matrix: Liquid

Work Order #: 9811544 -01-05

Reported: Dec 1, 1998

QUALITY CONTROL DATA REPORT

Analyte: Gasoline

QC Batch#: 8110236
Analy. Method: EPA 8015M/8020M
Prep. Method: EPA 5030

Analyst: -
MS/MSD #: P811136-01
Sample Conc.: N.D.
Prepared Date: 11/14/98
Analyzed Date: 11/14/98
Instrument I.D.#: -
Conc. Spiked: 1000 µg/L

Result: 1580
MS % Recovery: 96.4

Dup. Result: 1560
MSD % Recov.: 94.4

RPD: 1.3
RPD Limit: 0-12

LCS #: LCS111498

Prepared Date: 11/14/98
Analyzed Date: 11/14/98
Instrument I.D.#: -
Conc. Spiked: 1000 µg/L

LCS Result: 1010
LCS % Recov.: 101

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

9811544.BLA <1>





Sequoia
Analytical

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FAX (707) 792-0342

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

Client Proj. ID: Shell 1800 Powell St.

Received: 11/09/98

Lab Proj. ID: 9811544

Reported: 11/25/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 1 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





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 981106-23

Date: _____
Page 1 of 1

Silo Address: 1800 Powell Street, Emeryville
WIC#: 204-2495-0101

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

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

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

Commons: 981106-23

Sampled by: Jeremy
Printed Name: _____

Analysis Required

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	6441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	6441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	6442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	6443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	6462	
Water Rem. or Sys. O & M <input type="checkbox"/>	6463	
Other <input type="checkbox"/>		

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

9811544

Sample ID	Date	Sludge	Soil	Water	Air	No. of confs.	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, MDE			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
																					S-5
S-8						3						X									02
S-10						4	X					X									03
S-12						5	X					X									04
S-13						5	X					X									05
S-14												X									

Released By (Signature): <u>[Signature]</u>	Printed Name: <u>Jeremy</u>	Date: <u>11/9/98</u>	Time: <u>11:25</u>	Received (Signature): <u>[Signature]</u>	Printed Name: <u>LANCIA A. DAVIDSON</u>	Date: <u>11-9-98</u>	Time: <u>11:28</u>
Released By (Signature): <u>[Signature]</u>	Printed Name: <u>LANCIA A. DAVIDSON</u>	Date: <u>11-9-98</u>	Time: _____	Received (Signature): _____	Printed Name: _____	Date: _____	Time: _____
Released By (Signature): _____	Printed Name: _____	Date: _____	Time: _____	Received (Signature): <u>[Signature]</u>	Printed Name: _____	Date: <u>11-9</u>	Time: <u>1325</u>

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