

C A M B R I A

#113

ENVIRONMENTAL
PROTECTION

August 25, 1999

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

99 AUG 27 PM 2:03

Re: **First Quarter 1999 Monitoring Report**
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995746
Cambria Project #241-0897-002



Dear Mr. Chan:

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.

FIRST QUARTER 1999 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled all wells. Blaine calculated ground water elevations and compiled the analytical data. Cambria prepared a ground water elevation contour map (Figure 1). The Blaine report, presenting the laboratory report, is included as Attachment A.

Investigation and Remediation Workplans: In response to the Alameda County Health Care Services Agency (ACHCSA) letter to Equiva dated December 7, 1998, Cambria submitted a work plan proposing additional investigation and remediation dated January 11, 1999. Subsequently, Cambria submitted a work plan addendum dated March 18, 1999 addressing questions raised by the ACHCSA in a phone conversation with Cambria on February 1, 1999.

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

**Cambria
Environmental
Technology, Inc.**

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

ANTICIPATED SECOND QUARTER 1999 ACTIVITIES

Ground Water Monitoring: Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report.

Investigation and Remediation Workplans: The ACHCSA responded to both the January 11, 1999 and March 18, 1999 work plans in a letter to Equiva dated April 30, 1999. Additional information regarding oxygen release compounds (ORC) was requested in the April 30, 1999 letter. Cambria provided a response letter dated June 15, 1999. As a result, Cambria's work plan for remediation with ORC and the installation of one additional monitoring well was accepted by the ACHCSA in a June 18, 1999 letter to Equiva.

**ANTICIPATED THIRD QUARTER 1999 ACTIVITIES**

Ground Water Monitoring: Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report.

Work Plan Implemenatation: Cambria will coordinate installation of ORC socks in wells S-1, S-2, and backfill well BW-A. Cambria will insure BW-A is purged of stagnate water utilizing a vacuum truck prior to installing ORC. In addition to installing ORC, Cambria will begin permitting and scheduling for the installation of proposed well S-4.

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

A handwritten signature in black ink that reads "D. Ataide".

Darryk Ataide, REA I
Project Manager



A handwritten signature in black ink that reads "A. Le May".

Ailsa S. Le May, R.G.
Senior Geologist

Figure: 1 - Ground Water Elevation Contour Map

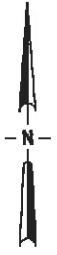
Table: 1 - Ground Water Analytical Data - Bioattenuation Parameters

Attachment: A - Blaine Ground Water Monitoring Report and Field Notes

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

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BOND STREET

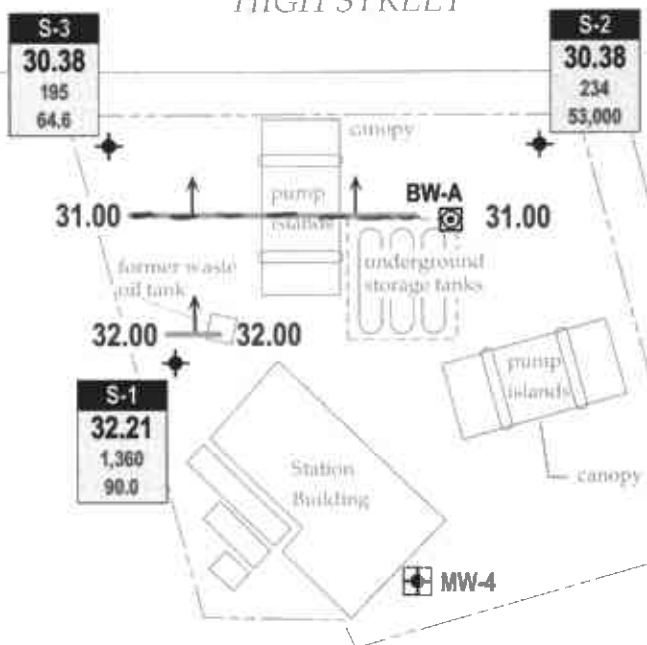


Chevron Service Station

BP Service Station

HIGH STREET

FOOTHILL BOULEVARD



EXPLANATION

- MW-1** Monitoring well location
- BW-A** Tank backfill well location
- MW-4** Proposed monitoring well location
- 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	Benzene and MTBE concentrations are in parts per billion (ppb)
MTBE	

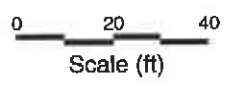


FIGURE 1

G:\OAK4411\FIGURES\10M99.MPA1

Shell-branded Service Station
 4411 Foothill Boulevard
 Oakland, California
 Incident #98995746



Ground Water Elevation Contour Map
 March 30, 1999

Table 1. Ground Water Analytical Data - Bioattenuation Parameters - Shell-branded Service Station Incident #98995746, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	Depth to Water (feet)	TPHg (ppb)	Motor Oil	Ferrous Iron	Nitrate as Nitrate (Concentrations in ppm)	Sulfate	DO	ORP (millivolts)	Notes
S-1	03/16/98	6.00	26,000	---	1.9	<1.0	<1.0	5.3/3.7	158/155	
	06/23/98	6.31	<1,000	---	2.0	<1.0	5.9	3.8/2.4	117/94	
	09/01/98	9.17	26,000	---	4.5	<1.0	12	1.4/2.6	-85/-51	
	12/30/98	8.99	29,900	0.334	4.1	<1.0	6.2	1.6/2.0	-25/-62	
	03/30/99	6.10	14,200	0.279	0.880	0.115	6.10	1.2/1.8	-56/-39	
S-2	03/16/98	7.97	1,100	---	1.7	<1.0	17	7.0/4.3	147/149	
	06/23/98	8.20	720	---	4.3	<1.0	5.7	4.2/3.8	128/134	
	06/23/98	8.20	810	---	3.7	<1.0	5.4	4.2/3.8	128/134	duplicate
	09/01/98	9.85	<2,000	---	4.1	<1.0	7.8	1.9/1.6	-26/-11	
	12/30/98	9.84	<5,000	---	1.9	<1.0	10	2.0/1.8	-54/-36	
	03/30/99	8.41	<2,000	---	<0.100	<0.100	8.51	2.1/1.8	-10/-08	
S-3	03/16/98	5.75	29,000	---	3.8	<1.0	12	3.0/3.4	153/142	
	06/23/98	5.98	3,800	---	2.0	<1.0	8.9	4.2/2.0	119/121	
	09/01/98	8.98	9,600	---	2.7	<1.0	7.3	1.9/2.8	57/35	
	09/01/98	8.98	9,200	---	2.2	<1.0	7.2	1.9/2.8	57/35	duplicate
	12/30/98	9.11	7,660	---	5.2	<1.0	5.9	1.8/1.6	75/54	
	03/30/99	6.95	2,070	---	<0.100	0.689	17.5	1.3/1.5	72/61	

Ideal Aerobic Degradation Relationship:

Observed Relationship:

Direct Inconclusive Inverse Inconclusive Inverse Moderately inverse Inverse Moderately inverse Direct Inconclusive

Table 1. Ground Water Analytical Data - Bioattenuation Parameters - Shell-branded Service Station Incident #98995746, 4411 Foothill Boulevard, Oakland, California

Well ID	Date	Depth to Water (feet)	TPHg (ppb)	Motor Oil	Ferrous Iron	Nitrate as Nitrate	Sulfate	DO	ORP (millivolts)	Notes
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Abbreviations and Notes:

- TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
- Motor Oil = Extractable hydrocarbons as motor oil by modified EPA Method 8015
- DO = Dissolved oxygen (pre-purge / post-purge)
- ORP = Oxidation reduction potential (pre-purge / post-purge)
- ppb = Parts per billion
- ppm = Parts per million
- <n = Below detection limit of n units
- Ferrous iron by modified EPA Method 200.7
- Nitrate as nitrate and sulfate by EPA Method 300.0

ATTACHMENT A

Blaine Ground Water Monitoring Report
and Field Notes

BLAINE
TECH SERVICES INC.



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

June 24, 1999

Karen Petryna
Equiva Services LLC
P.O. Box 6249
Carson, CA 90749-6249

First Quarter 1999 Groundwater Monitoring at
Shell-branded Service Station
4411 Foothill Blvd.
Oakland, CA

Monitoring performed on March 30 & 31, 1999

Groundwater Monitoring Report **990330-R-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, appropriate calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Deidre Kerwin". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Deidre Kerwin
Operations Manager

DK/ld

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street, Ste. C
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	12/18/1992	41,000	NA	3,100	1,100	1,200	8,700	NA	NA	38.31	9.06	NA	NA
S-1	05/26/1993	39,000	6,000	1,300	4,700	1,500	7,800	NA	NA	38.31	NA	NA	NA
S-1	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	12.13	26.18	NA
S-1	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	8.89	29.42	NA
S-1	06/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	8.80	29.51	NA
S-1	09/21/1993	34,000	5,900	480	5,000	3,800	18,000	NA	NA	38.31	10.40	27.91	NA
S-1	12/14/1993	25,000	13,000	1,100	5,000	2,200	11,000	NA	NA	38.31	9.66	28.65	NA
S-1	03/17/1994	57,000	1,600	1,300	5,400	2,100	11,000	NA	NA	38.31	8.20	30.11	NA
S-1	06/16/1994	57,000	3,000	1,600	6,000	2,000	13,000	NA	NA	38.31	9.41	28.90	NA
S-1	09/22/1994	39,000	ND	1,300	2,100	1,500	7,100	NA	NA	38.31	11.13	27.18	NA
S-1 a	12/15/1994	30,000	3,100	1,100	4,700	1,600	10,000	NA	NA	38.31	7.15	31.16	NA
S-1 a, b	03/30/1995	30,000	3,100	1,400	4,000	1,500	11,000	NA	NA	38.31	6.09	32.22	NA
S-1	06/20/1995	28,000	2,100	1,100	2,300	1,100	8,300	NA	NA	38.31	7.30	31.01	NA
S-1	09/20/1995	40,000	2,600	840	3,600	1,300	8,600	NA	NA	38.31	10.02	28.29	NA
S-1 a	12/06/1995	38,000	6,400	920	3,200	1,500	9,400	NA	NA	38.31	11.64	26.67	NA
S-1	03/21/1996	48,000	NA	700	4,200	1,100	8,600	NA	NA	38.31	6.87	31.44	NA
S-1	09/06/1996	41,000	4,100	830	2,600	2,100	12,000	<250	NA	38.31	10.50	27.81	NA
S-1	12/19/1996	40,000	2,500	540	3,100	1,900	9,800	920	NA	38.31	8.24	30.07	NA
S-1	03/17/1997	42,000	4,700	610	2,700	1,700	11,000	3,500	NA	38.31	7.26	31.05	NA
S-1	06/11/1997	28,000	4,000	540	960	1,300	5,300	220	NA	38.31	10.69	27.62	NA
S-1 (D)	06/11/1997	30,000	3,900	580	1,000	1,400	5,400	<125	NA	38.31	10.69	27.62	NA
S-1	09/17/1997	27,000	4,400	310	1,200	1,900	9,000	170	NA	38.31	10.26	28.05	NA
S-1 (D)	09/17/1997	27,000	4,400	270	1,200	1,900	9,000	170	NA	38.31	10.26	28.05	NA
S-1	12/11/1997	21,000	3,400	350	820	1,500	6,500	<125	NA	38.31	6.96	31.35	NA
S-1	03/16/1998	25,000	2,500	250	820	670	5,000	<125	NA	38.31	6.00	32.31	NA
S-1 (D)	03/16/1998	26,000	NA	250	840	720	5,100	<125	NA	38.31	6.00	32.31	5.3/3.7

WELL CONCENTRATIONS
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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S-1	06/23/1998	<1,000	230	280	14	23	15	6,100	7,800	38.31	6.31	32.00	3.8/2.4
S-1	09/01/1998	26,000	2,300	370	620	1,300	33	1,400	120	38.31	9.17	29.14	1.4/2.6
S-1	12/30/1998	29,900	1,970	174	732	1,680	5,740	182	NA	38.31	8.99	29.32	1.6/2.0
S-1	03/30/1999	14,200	1,150	1,360	260	1,070	3,580	<500	90.0	38.31	6.10	32.21	1.2/1.8
S-1	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	38.31	7.84	30.47	NA

S-2	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.51	29.28	NA
S-2	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.51	29.28	NA
S-2	06/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.57	29.22	NA
S-2	06/29/1993	1,300	NA	290	35	38	130	NA	NA	38.79	NA	NA	NA
S-2	09/21/1993	3,300	NA	870	24	190	120	NA	NA	38.79	10.54	28.25	NA
S-2	12/14/1993	1,300	NA	400	16	36	27	NA	NA	38.79	9.76	29.03	NA
S-2	03/17/1994	4,500	NA	610	27	92	110	NA	NA	38.79	9.92	28.87	NA
S-2 (D)	03/17/1994	4,000	NA	610	26	93	120	NA	NA	38.79	9.92	28.87	NA
S-2	06/16/1994	2,800	NA	690	45	97	140	NA	NA	38.79	10.11	28.68	NA
S-2	09/22/1994	4,000	NA	630	94	64	230	NA	NA	38.79	10.51	28.28	NA
S-2	12/15/1994	1,600	NA	450	300	67	130	NA	NA	38.79	9.12	29.67	NA
S-2 b	03/30/1995	8,200	NA	2,800	190	240	700	NA	NA	38.79	7.86	30.93	NA
S-2	06/20/1995	9,600	NA	2,600	160	170	500	NA	NA	38.79	9.51	29.28	NA
S-2	09/20/1995	4,200	NA	920	45	98	140	NA	NA	38.79	10.06	28.73	NA
S-2	12/06/1995	<5,000	NA	790	67	64	130	NA	NA	38.79	10.52	28.27	NA
S-2	03/21/1996	3,700	NA	850	45	96	170	NA	NA	38.79	8.60	30.19	NA
S-2	09/06/1996	2,400	NA	500	33	39	84	490	NA	38.79	10.50	28.29	NA
S-2	12/19/1996	1,200	NA	330	15	24	31	430	NA	38.79	9.40	29.39	NA
S-2	03/17/1997	4,100	NA	780	42	110	120	2,200	NA	38.79	9.82	28.97	NA
S-2	06/11/1997	760	NA	120	<5.0	7.0	7.6	900	NA	38.79	10.18	28.61	NA

WELL CONCENTRATIONS
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S-2	09/17/1997	1,500	NA	230	8.6	40	27	480	NA	38.79	9.90	28.89	NA
S-2	12/11/1997	1,300	NA	240	15	33	57	280	NA	38.79	8.27	30.52	NA
S-2	03/16/1998	1,100	NA	830	48	<10	<10	4,700	4,800	38.79	7.97	30.82	7.0/4.3
S-2	06/23/1998	720	NA	46	6.8	50	68	50	8.8	38.79	8.20	30.59	4.2/3.8
S-2 (D)	06/23/1998	810	NA	49	7.1	50	70	49	8.8	38.79	8.20	30.59	4.2/3.8
S-2	09/01/1998	<2,000	NA	170	<20	<20	<20	9,300	12,000	38.79	9.85	28.94	1.9/1.6
S-2	12/30/1998	<5000	NA	369	<50	<50	<50	14,300	NA	38.79	9.84	28.95	2.0/1.8
S-2	03/30/1999	<2000	NA	234	<20.0	27.4	36.9	49,200	53,000	38.79	8.41	30.38	2.1/1.8
S-2	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	38.79	8.67	30.12	NA

S-3	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.45	28.88	NA
S-3	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.36	28.97	NA
S-3	01/19/1900	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.41	28.92	NA
S-3	06/29/1993	29,000	NA	1,500	1,800	950	6,200	NA	NA	37.33	NA	NA	NA
S-3	09/21/1993	15,000	NA	900	2,200	2,600	11,000	NA	NA	37.33	10.08	27.25	NA
S-3	12/94/1993	20,000	NA	1,100	2,400	1,800	8,500	NA	NA	37.33	8.80	28.53	NA
S-3	03/17/1994	14,000	NA	580	190	750	1,700	NA	NA	37.33	8.34	28.99	NA
S-3	06/16/1994	20,000	NA	700	690	1,400	4,100	NA	NA	37.33	9.12	28.21	NA
S-3 (D)	06/16/1994	19,000	NA	680	560	1,300	3,700	NA	NA	37.33	NA	NA	NA
S-3	09/22/1994	24,000	NA	630	1,100	1,400	5,700	NA	NA	37.33	10.27	27.06	NA
S-3 (D)	09/22/1994	25,000	NA	720	1,100	1,500	6,100	NA	NA	37.33	NA	NA	NA
S-3	12/15/1994	18,000	NA	520	800	1,100	4,200	NA	NA	37.33	7.81	29.52	NA
S-3 (D)	12/15/1994	23,000	NA	1,000	1,900	2,000	8,600	NA	NA	37.33	NA	NA	NA
S-3 b	03/30/1995	8,800	NA	360	730	700	3,700	NA	NA	37.33	7.06	30.27	NA
S-3 (D)	03/30/1995	7,600	NA	330	570	600	2,600	NA	NA	37.33	NA	NA	NA
S-3	06/20/1995	9,600	NA	510	170	960	1,700	NA	NA	37.33	8.15	29.18	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3 (D)	06/20/1995	9,800	NA	500	170	950	1,700	NA	NA	37.33	NA	NA	NA
S-3	09/20/1995	21,000	NA	400	560	1,300	4,600	NA	NA	37.33	9.32	28.01	NA
S-3	12/06/1995	24,000	NA	630	1,400	1,400	6,000	NA	NA	37.33	10.53	26.80	NA
S-3 (D)	12/06/1995	22,000	NA	630	1,200	1,400	5,500	NA	NA	37.33	NA	NA	NA
S-3	03/21/1996	9,100	NA	290	110	490	1,600	NA	NA	37.33	7.32	30.01	NA
S-3 (D)	03/21/1996	11,000	NA	310	250	540	2,100	NA	NA	37.33	NA	NA	NA
S-3	09/06/1996	15,000	NA	440	300	1,100	3,000	500	NA	37.33	10.10	27.23	NA
S-3 (D)	09/06/1996	11,000	NA	490	170	820	1,500	700	NA	37.33	NA	NA	NA
S-3	12/19/1996	12,000	NA	600	380	850	2,500	380	NA	37.33	8.36	28.97	NA
S-3 (D)	12/19/1996	12,000	NA	590	380	830	2,500	540	NA	37.33	8.36	28.97	NA
S-3	03/17/1997	12,000	NA	520	140	740	1,400	320	NA	37.33	8.57	28.76	NA
S-3 (D)	03/17/1997	9,600	NA	500	100	680	1,100	<250	NA	37.33	8.57	28.76	NA
S-3	06/11/1997	9,600	NA	510	94	740	1,100	410	NA	37.33	9.26	28.07	NA
S-3	09/17/1997	21,000	NA	140	560	1,800	7,200	130	NA	37.33	9.62	27.71	NA
S-3	12/11/1997	24,000	NA	530	970	1,600	6,900	950	NA	37.33	7.34	29.99	NA
S-3 (D)	12/11/1997	29,000	NA	520	1,000	1,600	7,300	970	NA	37.33	7.34	29.99	NA
S-3	03/16/1998	29,000	NA	840	810	1,700	6,000	<250	NA	37.33	5.75	31.58	3.0/3.4
S-3	06/23/1998	3,800	NA	90	220	240	1,400	<50	NA	37.33	5.98	31.35	4.2/2.0
S-3	09/01/1998	9,600	NA	480	120	870	1,800	490	<50	37.33	8.98	28.35	1.9/2.8
S-3 (D)	09/01/1998	9,200	NA	420	110	800	1,700	110	<50	37.33	8.98	28.35	1.9/2.8
S-3	12/30/1998	7,660	NA	240	103	410	834	64.9	NA	37.33	9.11	28.22	1.8/1.6
S-3	03/30/1999	2,070	NA	195	10.0	<5.00	48.6	354	64.6	37.33	6.95	30.38	1.3/1.5
S-3	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	37.33	7.48	29.85	NA

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

WELL CONCENTRATIONS
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

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

MTBE = methyl-tertiary-butyl ether

TOB = Top of Box Elevation

GW = Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

##/## = Pre-purge / Post-purge

Notes:

a = Chromatogram pattern indicates an unidentified hydrocarbon.

b = National Environmental Testing, Inc. (NET), analyzed within hold time but further dilutions were required and analyzed out of hold time.

NET suggests that these should be considered minimum concentrations.



Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

May 12, 1999

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

RE: Shell(1)/L904006

Dear Fran Thie:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 31, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Gregory
Project Manager D.M.





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 4411 Foothill Blvd., Oakland Project Manager: Fran Thie	Sampled: 3/30/99 Received: 3/31/99 Reported: 5/12/99
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ANALYTICAL REPORT FOR L904006

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
S-1	L904006-01	Water	3/30/99
S-2	L904006-02	Water	3/30/99
S-3	L904006-03	Water	3/30/99





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 4411 Foothill Blvd., Oakland Project Manager: Fran Thie	Sampled: 3/30/99 Received: 3/31/99 Reported: 5/12/99
--	---	--

Sample Description: S-1
Laboratory Sample Number: L904006-01

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9040055	4/10/99	4/10/99		5000	14200	ug/l	1
Benzene	"	"	"		50.0	1360	"	
Toluene	"	"	"		50.0	260	"	
Ethylbenzene	"	"	"		50.0	1070	"	
Xylenes (total)	"	"	"		50.0	3580	"	
Methyl tert-butyl ether	"	"	"		500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		95.8	%	

MTBE by EPA Method 8260A

Methyl tert-butyl ether	9040021	4/5/99	4/5/99		25.0	90.0	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	76.0-114		101	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 4411 Foothill Blvd., Oakland Project Manager: Fran Thie	Sampled: 3/30/99 Received: 3/31/99 Reported: 5/12/99
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Sample Description: S-2
Laboratory Sample Number: L904006-02

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9040055	4/10/99	4/10/99		2000	ND	ug/l	
Benzene	"	"	"		20.0	234	"	
Toluene	"	"	"		20.0	ND	"	
Ethylbenzene	"	"	"		20.0	27.4	"	
Xylenes (total)	"	"	"		20.0	36.9	"	
Methyl tert-butyl ether	"	"	"		5000	49200	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		96.5	%	

MTBE by EPA Method 8260A

Methyl tert-butyl ether	9040046	4/9/99	4/9/99		1000	53000	ug/l	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	"	"	"	76.0-114		105	%	





Sequoia Analytical

1551 Industrial Road
 San Carlos, CA 94070-4111
 (650) 232-9600
 FAX (650) 232-9612

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 4411 Foothill Blvd., Oakland Project Manager: Fran Thie	Sampled: 3/30/99 Received: 3/31/99 Reported: 5/12/99
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Sample Description: S-3
Laboratory Sample Number: L904006-03

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9040055	4/10/99	4/10/99		500	2070	ug/l	1
Benzene	"	"	"		5.00	195	"	
Toluene	"	"	"		5.00	10.0	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		5.00	48.6	"	
Methyl tert-butyl ether	"	"	"		50.0	354	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		107	%	

MTBE by EPA Method 8260A

Methyl tert-butyl ether	9040021	4/5/99	4/5/99		20.0	64.6	ug/l	
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i>	"	"	"	76.0-114		101	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 4411 Foothill Blvd., Oakland Project Manager: Fran Thie	Sampled: 3/30/99 Received: 3/31/99 Reported: 5/12/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9040055			Date Prepared: 4/10/99			Extraction Method: EPA 5030B [P/T]				
Blank			9040055-BLK1							
Purgeable Hydrocarbons as Gasoline	4/10/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		8.33	"	70.0-130	83.3			
LCS			9040055-BS1							
Purgeable Hydrocarbons as Gasoline	4/10/99	250		231	ug/l	70.0-130	92.4			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		12.1	"	70.0-130	121			
Matrix Spike			9040055-MS1 L904043-04							
Purgeable Hydrocarbons as Gasoline	4/10/99	250	ND	296	ug/l	60.0-140	118			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		12.5	"	70.0-130	125			
Matrix Spike Dup			9040055-MSD1 L904043-04							
Purgeable Hydrocarbons as Gasoline	4/10/99	250	ND	242	ug/l	60.0-140	96.8	25.0	19.7	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		10.9	"	70.0-130	109			





Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 4411 Foothill Blvd., Oakland Project Manager: Fran Thic	Sampled: 3/30/99 Received: 3/31/99 Reported: 5/12/99
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**MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9040021										
Blank										
Date Prepared: 4/5/99										
Extraction Method: EPA 5030B [P/T]										
9040021-BLK1										
Methyl tert-butyl ether	4/5/99			ND	ug/l	2.00				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		53.0	"	76.0-114	106			
Blank										
9040021-BLK2										
Methyl tert-butyl ether	4/6/99			ND	ug/l	2.00				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		51.3	"	76.0-114	103			
LCS										
9040021-BS1										
Methyl tert-butyl ether	4/5/99	50.0		49.3	ug/l	70.0-130	98.6			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.1	"	76.0-114	104			
LCS										
9040021-BS2										
Methyl tert-butyl ether	4/6/99	50.0		48.4	ug/l	70.0-130	96.8			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.6	"	76.0-114	105			
Matrix Spike										
9040021-MS1 L904038-01										
Methyl tert-butyl ether	4/5/99	50.0	ND	52.5	ug/l	60.0-140	105			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.8	"	76.0-114	106			
Matrix Spike Dup										
9040021-MSD1 L904038-01										
Methyl tert-butyl ether	4/5/99	50.0	ND	50.4	ug/l	60.0-140	101	25.0	3.88	
Surrogate: 1,2-Dichloroethane-d4	"	50.0		53.5	"	76.0-114	107			
Batch: 9040046										
Blank										
Date Prepared: 4/9/99										
Extraction Method: EPA 5030B [P/T]										
9040046-BLK1										
Methyl tert-butyl ether	4/8/99			ND	ug/l	2.00				
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.0	"	76.0-114	104			
LCS										
9040046-BS1										
Methyl tert-butyl ether	4/8/99	50.0		52.2	ug/l	70.0-130	104			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		53.4	"	76.0-114	107			
Matrix Spike										
9040046-MS1 L904085-02										
Methyl tert-butyl ether	4/8/99	50.0	ND	49.4	ug/l	60.0-140	98.8			
Surrogate: 1,2-Dichloroethane-d4	"	50.0		52.7	"	76.0-114	105			
Matrix Spike Dup										
9040046-MSD1 L904085-02										
Methyl tert-butyl ether	4/8/99	50.0	ND	48.3	ug/l	60.0-140	96.6	25.0	2.25	
Surrogate: 1,2-Dichloroethane-d4	"	50.0		51.6	"	76.0-114	103			





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 4411 Foothill Blvd., Oakland Project Manager: Fran Thie	Sampled: 3/30/99 Received: 3/31/99 Reported: 5/12/99
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Notes and Definitions

#	Note
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- 1 Chromatogram Pattern: C6-C12
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference
- NOTE: Diesel/Motor Oil, Ferrous Iron, Nitrate, Sulfate were subcontracted to Sequoia Petaluma. Hard copy attached.





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
 Serial No: 990330 R-2

Date: 3-30-99
 Page (of)

Site Address: 4411 Foothill Blvd., Oakland, CA

Analysis Required

LAB: Sequa

WICN: 204-5508-3400

Shell Engineer: Alex Perez Phone No.: (510) 675-6168
 Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc.
1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie Phone No.: (408) 573-0555
 Fax #: 573-7771

Comments:

Sampled by: J. A. Rosa

Printed Name: J. A. Rosa

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 824D)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE by 8260 8020	MtTate	Mercuric Sulfate	Ortho/Para/Total Ferrous Iron	Proprietary Motor Oil	Composite Y/N
S-1	3/24/99			W		9		X				X	X	X	X	X	X	
S-2	3/24/99			W		6						X	X	X	X			
S-3	3/24/99			W		6						X	X	X				

CHECK ONE (IF BOX ONLY)	CI/DI	TURN AROUND TIME
G.W. Monitoring <input checked="" type="checkbox"/>	4411	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4421	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4443	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. of Sys. O & M <input type="checkbox"/>	4452	
Water Rem. of Sys. O & M <input type="checkbox"/>	4452	
Oil/W <input type="checkbox"/>		

NOTE: Notify lab as soon as possible of 24/48 hr. TAT.

UST AGENCY:

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
Carbon	MTBE
	by 8260"
	Revised COC
	AP 4/6/99

Relinquished By (signature): <u>J. A. Rosa</u>	Printed Name: <u>J. A. Rosa</u>	Date: <u>3/24/99</u>	Time: <u>11:15</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>JOHN ERICKS</u>	Date: <u>3/31/99</u>	Time: <u>11:15</u>
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:
Relinquished By (signature):	Printed Name:	Date:	Time:	Received (signature):	Printed Name:	Date:	Time:

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

(JOB) 06:54
 BLAINE TECH SERVICES, INC
 TEL: 408 573 7771
 P. 002



Sequoia Analytical

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

May 11, 1999

Mike Gregory
Sequoia San Carlos
1551 Industrial Blvd.
San Carlos, CA 94070

RE: Subbed in/P904087

Dear Mike Gregory

Enclosed are the results of analyses for sample(s) received by the laboratory on April 2, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matt Sakai
Project Manager

CA ELAP Certificate Number 2245





Sequoia San Carlos 1551 Industrial Blvd. San Carlos, CA 94070	Project: Subbed in Project Number: L904006 Project Manager: Mike Gregory	Sampled: 3/30/99 Received: 4/2/99 Reported: 5/11/99
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ANALYTICAL REPORT FOR P904087

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
S-1/L904006-01	P904087-01	Water	3/30/99
S-2/L904006-02	P904087-02	Water	3/30/99
S-3/L904006-03	P904087-03	Water	3/30/99





Sequoia San Carlos 1551 Industrial Blvd. San Carlos, CA 94070	Project: Subbed in Project Number: L904006 Project Manager: Mike Gregory	Sampled: 3/30/99 Received: 4/2/99 Reported: 5/11/99
---	--	---

**Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>S-1/L904006-01</u>				<u>P904087-01</u>			<u>Water</u>	
Diesel	9040252	4/12/99	5/3/99		0.0500	1.15	mg/l	1
Motor Oil	"	"	"		0.250	0.279	"	2
Surrogate: <i>o</i> -Terphenyl	"	"	"	50.0-150		83.0	%	





Sequoia San Carlos 1551 Industrial Blvd. San Carlos, CA 94070	Project: Subbed in Project Number: L904006 Project Manager: Mike Gregory	Sampled: 3/30/99 Received: 4/2/99 Reported: 5/11/99
---	--	---

**Conventional Chemistry Parameters by APHA/EPA Methods
 Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>S-1/L904006-01</u>				<u>P904087-01</u>			<u>Water</u>	
Nitrate/Nitrite as N	9040161	4/7/99	4/7/99	EPA 353.2	0.100	0.115	mg/l	
Ferrous Iron	9040126	4/6/99	4/6/99	SM 3500 Fe D#4	0.100	0.880	"	3
<u>S-2/L904006-02</u>				<u>P904087-02</u>			<u>Water</u>	
Nitrate/Nitrite as N	9040161	4/7/99	4/7/99	EPA 353.2	0.100	ND	mg/l	
Ferrous Iron	9040126	4/6/99	4/6/99	SM 3500 Fe D#4	0.100	ND	"	3
<u>S-3/L904006-03</u>				<u>P904087-03</u>			<u>Water</u>	
Nitrate/Nitrite as N	9040161	4/7/99	4/7/99	EPA 353.2	0.100	0.689	mg/l	
Ferrous Iron	9040126	4/6/99	4/6/99	SM 3500 Fe D#4	0.100	ND	"	3





Sequoia San Carlos 1551 Industrial Blvd. San Carlos, CA 94070	Project: Subbed in Project Number: L904006 Project Manager: Mike Gregory	Sampled: 3/30/99 Received: 4/2/99 Reported: 5/11/99
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**Anions by EPA Method 300.0
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>S-1/L904006-01</u> Sulfate as SO4	9040164	4/7/99	4/7/99	<u>P904087-01</u> EPA 300.0	5.00	6.10	<u>Water</u> mg/l	
<u>S-2/L904006-02</u> Sulfate as SO4	9040164	4/7/99	4/7/99	<u>P904087-02</u> EPA 300.0	1.00	8.51	<u>Water</u> mg/l	
<u>S-3/L904006-03</u> Sulfate as SO4	9040164	4/7/99	4/7/99	<u>P904087-03</u> EPA 300.0	5.00	17.5	<u>Water</u> mg/l	





Sequoia San Carlos 1551 Industrial Blvd. San Carlos, CA 94070	Project: Subbed in Project Number: L904006 Project Manager: Mike Gregory	Sampled: 3/30/99 Received: 4/2/99 Reported: 5/11/99
---	--	---

**Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M/Quality Control
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*	
Batch: 9040252		Date Prepared: 4/12/99			Extraction Method: EPA 3520B						
Blank	9040252-BLK1										
Diesel	5/3/99			ND	mg/l	0.0500					
Motor Oil	"			ND	"	0.250					
Surrogate: <i>o</i> -Terphenyl	"	0.100		0.0745	"	50.0-150	74.5				
LCS		9040252-BS1									
Diesel	4/22/99	1.00		0.852	mg/l	50.0-150	85.2				
Surrogate: <i>o</i> -Terphenyl	"	0.100		0.109	"	50.0-150	109				
LCS Dup		9040252-BSD1									
Diesel	4/22/99	1.00		0.722	mg/l	50.0-150	72.2	20.0	16.5		
Surrogate: <i>o</i> -Terphenyl	"	0.100		0.104	"	50.0-150	104				





Sequoia San Carlos 1551 Industrial Blvd. San Carlos, CA 94070	Project: Subbed in Project Number: L904006 Project Manager: Mike Gregory	Sampled: 3/30/99 Received: 4/2/99 Reported: 5/11/99
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**Conventional Chemistry Parameters by APHA/EPA Methods/Quality Control
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9040126			Date Prepared: 4/6/99			Extraction Method: General Preparation				
Blank			9040126-BLK1							
Ferrous Iron	4/6/99			ND	mg/l	0.100				
LCS			9040126-BS1							
Ferrous Iron	4/6/99	0.600		0.640	mg/l	80.0-120	107			
Matrix Spike			9040126-MS1 P904089-07							
Ferrous Iron	4/6/99	0.600	ND	0.679	mg/l	75.0-125	113			
Matrix Spike Dup			9040126-MSD1 P904089-07							
Ferrous Iron	4/6/99	0.600	ND	0.632	mg/l	75.0-125	105	20.0	7.34	
Batch: 9040161			Date Prepared: 4/7/99			Extraction Method: General Preparation				
Blank			9040161-BLK1							
Nitrate/Nitrite as N	4/7/99			ND	mg/l	0.100				
LCS			9040161-BS1							
Nitrate/Nitrite as N	4/7/99	2.00		2.02	mg/l	80.0-120	101			
Matrix Spike			9040161-MS1 P904087-01							
Nitrate/Nitrite as N	4/7/99	2.00	0.115	2.57	mg/l	75.0-125	123			
Matrix Spike Dup			9040161-MSD1 P904087-01							
Nitrate/Nitrite as N	4/7/99	2.00	0.115	2.00	mg/l	75.0-125	94.3	20.0	26.4	





Sequoia San Carlos 1551 Industrial Blvd. San Carlos, CA 94070	Project: Subbed in Project Number: L904006 Project Manager: Mike Gregory	Sampled: 3/30/99 Received: 4/2/99 Reported: 5/11/99
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**Anions by EPA Method 300.0/Quality Control
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9040164	Date Prepared: 4/7/99		Extraction Method: General Preparation							
Blank	9040164-BLK1									
Sulfate as SO4	4/7/99			ND	mg/l	1.00				
LCS	9040164-BS1									
Sulfate as SO4	4/7/99	15.0		14.6	mg/l	80.0-120	97.3			
Matrix Spike	9040164-MS1		P904087-01							
Sulfate as SO4	4/7/99	37.5	6.10	43.2	mg/l	75.0-125	98.9			
Matrix Spike Dup	9040164-MSD1		P904087-01							
Sulfate as SO4	4/7/99	37.5	6.10	43.2	mg/l	75.0-125	98.9	20.0	0	





Sequoia San Carlos 1551 Industrial Blvd. San Carlos, CA 94070	Project: Subbed in Project Number: L904006 Project Manager: Mike Gregory	Sampled: 3/30/99 Received: 4/2/99 Reported: 5/11/99
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Notes and Definitions

#	Note
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- 1 Results in the diesel organics range are primarily due to overlap from a gasoline range product.
- 2 Non- motor oil hydrocarbons.
- 3 This sample was filtered and preserved before receipt.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 4411 Foothill Blvd., Oakland Project Manager: Fran Thie	Sampled: 3/30/99 Received: 3/31/99 Reported: 5/12/99
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Notes and Definitions

#	Note
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1 Chromatogram Pattern: C6-C12

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

Recov. Recovery

RPD Relative Percent Difference

NOTE: Diesel/Motor Oil, Ferrous Iron, Nitrate, Sulfate were subcontracted to Sequoia Petaluma. Hard copy attached.



NO. 8134 P. 2



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
 Serial No: 990330 R-2

Date: 3-26-99
 Page 1 of 1

Site Address: 4411 Foothill Blvd., Oakland, CA

Analysis Required

LAB: Seq 442

WIC#: 204-5508-3400

Shell Engineer: Alex Perez Phone No.: (510) 675-6168
 Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc.
1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thle Phone No.: (408) 573-0555
 Fax #: 573-7721

Comments:

Sampled by: J. A. Rosa
 Printed Name: J. A. Rosa

Sample ID	Date	Surge	Soil	Water	Air	No. of conds.
S-1	3/26/99			U		9
S-2	3/26/99			W		6
S-3	3/26/99			W		6

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/402)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE by 8240 8020	Nitrate	Ammonia Sulfate	Chloride Ferric Iron	Hydrocarbon Asphal Oil	Composite Y/N
					X	X	X	X	X	X	
					X	X	X	X			
					X	X	X	X			

CHECK ONE (SEE CHECKY)	CI/VI	TURN AROUND TIME
<input checked="" type="checkbox"/> 411	411	24 hours <input type="checkbox"/>
<input type="checkbox"/> 442	442	48 hours <input type="checkbox"/>
<input type="checkbox"/> 443	443	15 days <input checked="" type="checkbox"/> (Normal)
<input type="checkbox"/> 444	444	Other <input type="checkbox"/>
<input type="checkbox"/> 445	445	
<input type="checkbox"/> 446	446	

NOTE: Reply time as soon as possible of 24/48 hr. T.A.L.

UST AGENCY:

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
Carbim MTBE	
by 8240	
Revised COC	
AP 4/6/99	

Relinquished by (signature): <u>J. A. Rosa</u>	Printed Name: <u>J. A. Rosa</u>	Date: <u>3/26/99</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>[Name]</u>	Date: <u>3/26/99</u>
Relinquished by (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Date:
Relinquished by (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Date:

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

7. 1999 1:02PM

TEL: 408 573 7721 P. 002

EQUIVA WELL MONITORING DATA SHEET

Project #: 990330 R-2	Job # 204-5508-3400
Sampler: JR	Date: 3-30-99
Well I.D.: S-1	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 24.48	Depth to Water: 6.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump

Sampling Method: Bailer Extraction Port

Other: _____

Other: _____

11.9	x	3	=	35.7	Gals.
Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
16:15	59.6	6.7	550	121	12	odor heavy
16:20	61.4	6.8	550	72	24	/
16:25	61.5	6.8	600	31	36	/

Did well dewater? Yes No Gallons actually evacuated: 36

Sampling Time: 16:35 Sampling Date: 3-30-99

Sample I.D.: S-1 Laboratory: Sequoia BC Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Nitrate, Sulfate, Ferrous Iron ^{motor oil}

D.O. (if req'd):	Pre-purge: 1.2 mg/L	Post-purge: 1.8 mg/L
O.R.P. (if req'd):	Pre-purge: -56 mV	Post-purge: -39 mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 990330 R-2	Job # 204-5508-3400
Sampler: JR	Date: 3-30-99
Well I.D.: S-2	Well Diameter: 2 3 ④ 6 8
Total Well Depth: 22.03	Depth to Water: 8.41
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Sampling Method: Bailer Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

Other: _____

<u>8.8</u>	x	<u>3</u>	=	<u>26.4</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
15:15	62.8	6.6	1100	72	9	mild odor
15:19	63.5	6.7	1200	49	18	/
15:23	63.1	6.6	1200	11	27	/

Did well dewater? Yes No Gallons actually evacuated: 27

Sampling Time: 15:30 Sampling Date: 3-30-99

Sample I.D.: S-2 Laboratory: Sequoia BC Other _____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: Nitrate, Sulfate, Ferrrous Iron

D.O. (if req'd):	Pre-purge: 2.1 mg/L	Post-purge: 1.8 mg/L
O.R.P. (if req'd):	Pre-purge: -10 mV	Post-purge: -08 mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 990330 R-2	Job # 204-5508-3400
Sampler: JR	Date: 3-30-99
Well I.D.: S-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 19.98	Depth to Water: 6.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump Other: _____

Sampling Method: Bailer Extraction Port Other: _____

8.4	x	3	=	25.2	Gals.
I-Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
15:45	60.0	7.0	550	53	8.5	
15:49	59.6	7.0	600	27	17	
15:55	59.8	7.0	600	9	26	

Did well dewater? Yes No Gallons actually evacuated: 26

Sampling Time: 16:00 Sampling Date: 3-30-99

Sample I.D.: S-3 Laboratory: Sequoia BC Other: _____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: Nitrate, Sulfate, Ferrous Iron

D.O. (if req'd):	Pre-purge: 1.3 mg/L	Post-purge: 1.5 mg/L
O.R.P. (if req'd):	Pre-purge: 72 mV	Post-purge: 61 mV

