

C A M B R I A

ENVIRONMENTAL
PROTECTION
MAY 11 1999
99 MAY 11 PM 2:03

Scott Seery
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
1784 150th Avenue
San Leandro, California
Incident# 98996068
Cambria Project# 24-314-498



Dear Mr. Seery:

On behalf of Equiva Services LLC (Equiva), 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 checked for separate-phase hydrocarbons (SPH) and gauged and sampled all the site wells. 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.


Soil Vapor Survey and Soil/Ground Water Investigation: Cambria prepared a *Subsurface Investigation Work Plan* dated September 30, 1998 detailing the scope of work for additional soil and ground water investigation. A *Subsurface Investigation Work Plan Addendum* dated November 5, 1998 was submitted further detailing the soil and ground water investigation. The work plan was subsequently approved in the ACHCSA letter dated November 9, 1998.

Cambria conducted the subject investigation on **November 10 and 11th, 1998**. Soil boring and soil vapor survey (SVS) locations are shown on Figure 2. The analytical report for soil samples are included in Attachment B. The analytical report for grab water samples are included in **Attachment C** and the analytical results for soil vapor samples are included in Attachment D.

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 FUTURE ACTIVITIES

Monitoring Well Installations: Cambria proposed the installation of three additional monitoring wells (MW-5, MW-6 and MW-7) at the locations shown on Figure 2. Based on preliminary review of the grab water sample results from soil borings SVS-14, SVS-15 and SVS-16, it does not appear that installation of proposed monitoring well MW-7 is warranted. Cambria will proceed with the installation of proposed monitoring wells MW-5 and MW-6, but will proceed with installation of MW-7. We anticipate installing MW-5 and MW-6 during the second quarter of 1999 after which a Monitoring Well Installation report will be submitted.

Tier 2 RBCA: Cambria's November 5, 1998 *Subsurface Investigation Work Plan Addendum* proposed conducting an additional Tier 2 RBCA to address the RBCA related topics discussed in Cambria's *Meeting Summary and Work Plan Addendum* dated May 1, 1998. At this time the RBCA evaluation has not been completed. We anticipate submitting the new Tier 2 RBCA during the second quarter of 1999.

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

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



for:

Darryk Ataide, REA I
Project Manager

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



- Figure 1: Ground Water Elevation Contour Map
- Figure 2: Proposed Monitoring Well Location Map
- Attachment: A - Blaine Ground Water Monitoring Report
- B - Analytical Report for Soil Samples
- C - Analytical Report for Grab Water Samples
- D - Analytical Results for Soil Vapor Samples

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

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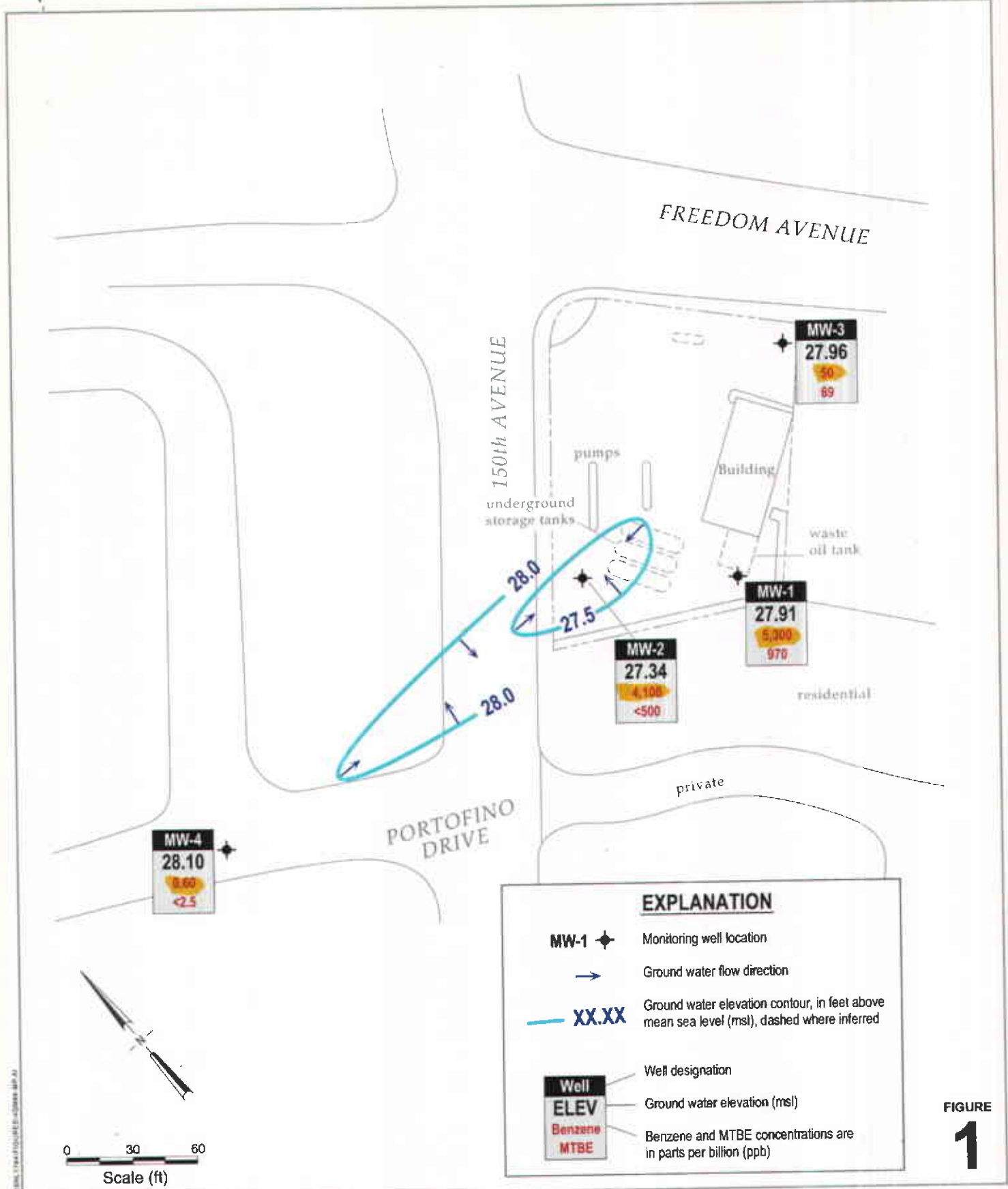


FIGURE 1

Shell-branded Service Station
 1784 150th Avenue
 San Leandro, California
 Incident #98996068



CAMBRIA

Ground Water Elevation Contour Map

December 23, 1998

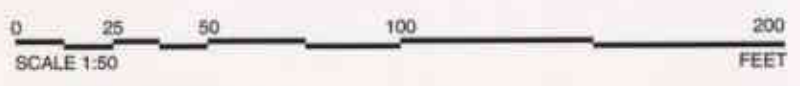
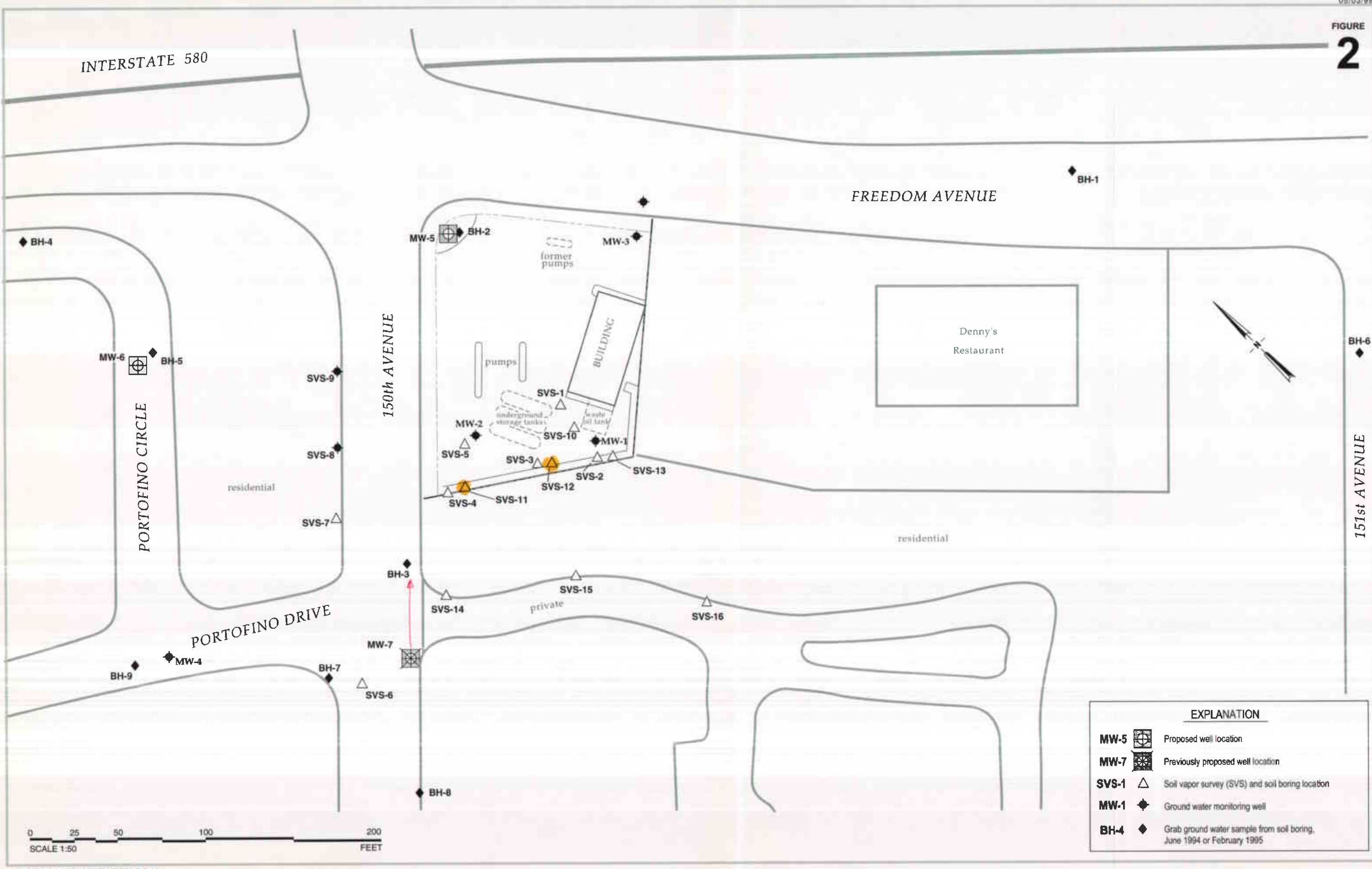
FIGURE 2

Proposed Monitoring Well Locations



Shell-branded Service Station

1784 150th Avenue
San Leandro, California
Incident #98996068



EXPLANATION	
MW-5	Proposed well location
MW-7	Previously proposed well location
SVS-1	Soil vapor survey (SVS) and soil boring location
MW-1	Ground water monitoring well
BH-4	Grab ground water sample from soil boring, June 1994 or February 1995

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

February 16, 1999

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

Fourth Quarter 1998 Groundwater Monitoring at
SHELL -branded Service Station
1784 150th Avenue
San Leandro, CA

Monitoring performed on December 23, 1998

Groundwater Monitoring Report **981223-T-4**

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. Purge water (if applicable) is, likewise, collected and transported to the Shell Martinez Manufacturing Complex.

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 at the end.

Deidre Kerwin
Operations Manager

DK/mt

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA
Wic #204-6852-1404

Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	03/08/1990	510	120	1.5	0.8	<0.5	5.4	NA	NA	49.13	25.29	23.84	NA	NA
MW-1	06/12/1990	390	100	86	1.3	0.7	6.2	NA	NA	49.13	25.85	23.28	NA	NA
MW-1	09/13/1990	100	130	56	0.75	2.4	2.8	NA	NA	49.13	27.49	21.64	NA	NA
MW-1	12/18/1990	480	<50	54	1.7	3.3	3.7	NA	NA	49.13	27.41	21.72	NA	NA
MW-1	03/07/1991	80	<50	266	<0.5	1.2	<1.5	NA	NA	49.13	25.79	23.34	NA	NA
MW-1	06/07/1991	510	<50	130	3.8	6.1	11	NA	NA	49.13	25.64	23.49	NA	NA
MW-1	09/17/1991	330	120a	67	<0.5	3.0	2.2	NA	NA	49.13	27.54	21.59	NA	NA
MW-1	12/09/1991	140a	80	<0.5	<0.5	1.7	4.7	NA	NA	49.13	27.81	21.32	NA	NA
MW-1	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	25.57	23.56	NA	NA
MW-1	02/24/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	22.83	26.30	NA	NA
MW-1	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	23.09	26.04	NA	NA
MW-1	03/01/1992	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	49.13	23.26	25.87	NA	NA
MW-1	06/03/1992	1,500	NA	520	180	72	230	NA	NA	49.13	24.64	24.49	NA	NA
MW-1	09/01/1992	130	NA	16	1.4	1.8	3.4	NA	NA	49.13	26.74	22.39	NA	NA
MW-1	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	27.18	21.95	NA	NA
MW-1	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	49.13	27.99	21.14	NA	NA
MW-1	12/04/1992	150	NA	360	0.7	1.8	2.1	NA	NA	49.13	27.14	21.99	NA	NA
MW-1	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	20.09	29.04	NA	NA
MW-1	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	24.26	24.87	NA	NA
MW-1	03/03/1993	<50	NA	1.5	<0.5	<0.5	<0.5	NA	NA	49.13	20.50	28.63	NA	NA
MW-1	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	49.13	21.70	27.43	NA	NA
MW-1	06/17/1993	1,600	NA	340	120	120	440	NA	NA	49.13	22.42	26.71	NA	NA
MW-1	09/10/1993	2,600	NA	670	340	310	730	NA	NA	49.13	24.11	25.02	NA	NA
MW-1	12/13/1993	11,000	NA	470	320	380	2,300	NA	NA	49.13	23.73	25.40	NA	NA
MW-1	03/03/1994	16,000	NA	700	690	480	3,200	NA	NA	49.13	22.08	27.05	NA	NA
MW-1	06/06/1994	7,500	NA	420	280	200	1,000	NA	NA	49.13	23.10	26.03	NA	NA
MW-1	09/12/1994	1,200	NA	110	21	3.3	420	NA	NA	49.13	25.19	23.94	NA	NA
MW-1	12/19/1994	4,600	NA	470	330	230	1,300	NA	NA	49.13	23.06	26.07	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA
Wic #204-6852-1404

Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-1	02/28/1995	500	NA	59	32	6.8	68	NA	NA	49.13	20.90	28.23	NA	NA
MW-1	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	49.13	18.28	30.85	NA	NA
MW-1	06/26/1995	5,500	NA	740	420	300	1,800	NA	NA	49.13	20.40	28.73	NA	NA
MW-1	09/13/1995	84,000	NA	1,900	2,600	3,000	14,000	NA	NA	49.13	22.62	26.51	NA	NA
MW-1	12/19/1995	80,000	NA	660	350	170	18,000	NA	NA	49.13	22.10	27.03	NA	NA
MW-1	03/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	49.13	18.83	30.34	0.05	NA
MW-1	06/28/1996	270,000	NA	2,800	820	1,000	16,000	<0.5	NA	49.13	21.46	27.67	NA	NA
MW-1 (D)	06/28/1996	790,000	NA	2,200	780	1,000	13,000	15,000	NA	49.13	21.46	27.67	NA	NA
MW-1	09/26/1996	29,000	NA	1,100	260	270	1,900	<1,000	NA	49.13	23.57	25.57	0.01	NA
MW-1	09/26/1996	25,000	NA	1,200	320	240	1,900	<1,000	NA	49.13	NA	NA	NA	NA
MW-1	12/10/1996	13,000	NA	510	240	230	1,200	100	NA	49.13	21.43	27.70	NA	1.0
MW-1 (D)	12/10/1996	8,400	NA	420	130	140	680	81	NA	49.13	21.43	27.70	NA	1.0
MW-1	03/10/1997	4,200	NA	13	8.8	16	74	<12	NA	49.13	20.08	29.05	NA	2.0
MW-1 (D)	03/10/1997	5,100	NA	12	8.9	17	79	<25	NA	49.13	20.08	29.05	NA	2.0
MW-1	06/30/1997	5,700	NA	320	120	140	700	47	NA	49.13	21.68	27.45	NA	1.6
MW-1 (D)	06/30/1997	5,300	NA	300	95	120	580	45	NA	49.13	21.68	27.45	NA	1.6
MW-1	09/12/1997	6,300	NA	120	26	82	260	30	NA	49.13	21.78	27.35	NA	2.1
MW-1 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	49.13	20.78	28.35	NA	1.3
MW-1	02/02/1998	84	NA	5.1	<0.50	<0.50	2.1	2.5	NA	49.13	19.65	29.48	NA	2.0
MW-1	06/24/1998	13,000	NA	3,000	260	410	1,400	<250	NA	49.13	19.65	29.48	NA	2.5
MW-1 (D)	06/24/1998	12,000	NA	3,800	250	47	1,400	710	NA	49.13	19.65	29.48	NA	2.5
MW-1	08/26/1998	3,100	NA	1,200	27	170	50	88	NA	49.13	20.49	28.64	NA	2.1
MW-1	12/23/1998	45,000	NA	5,300	220	1000	3600	970	NA	49.13	21.22	27.91	NA	3.8
MW-2	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.63	22.22	23.61	NA	NA
MW-2	02/24/1992	17,000	2,700a	6,200	1,600	550	1,900	NA	NA	45.63	19.61	26.22	NA	NA
MW-2	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.63	19.92	25.91	NA	NA
MW-2	03/01/1992	86,000	1,000a	30,000	34,000	2,300	16,000	NA	NA	45.63	21.11	24.72	NA	NA

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MW-2	06/03/1992	87,000	NA	28,000	18,000	2,000	10,000	NA	NA	45.63	21.58	24.25	NA	NA
MW-2	09/01/1992	110,000	NA	21,000	13,000	1,900	7,800	NA	NA	45.63	23.46	22.37	NA	NA
MW-2	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.63	23.99	21.84	NA	NA
MW-2	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	45.63	24.25	21.58	NA	NA
MW-2	12/04/1992	42,000	NA	15,000	2,400	960	2,900	NA	NA	45.63	23.89	21.94	NA	NA
MW-2	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.63	17.03	28.80	NA	NA
MW-2	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.63	18.08	27.75	NA	NA
MW-2	03/03/1993	160,000	NA	36,000	3,800	32,000	21,000	NA	NA	45.63	17.28	28.55	NA	NA
MW-2 (D)	03/03/1993	150,000	NA	31,000	3,100	20,000	14,000	NA	NA	45.63	17.28	28.55	NA	NA
MW-2	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	45.63	18.41	27.42	NA	NA
MW-2	06/17/1993	65,000	NA	34,000	15,000	3,200	11,000	NA	NA	45.63	19.06	26.77	NA	NA
MW-2 (D)	06/17/1993	62,000	NA	28,000	14,000	2,700	10,000	NA	NA	45.63	19.06	26.77	NA	NA
MW-2	09/10/1993	72,000	NA	24,000	16,000	2,300	11,000	NA	NA	45.63	20.88	24.95	NA	NA
MW-2 (D)	09/10/93,f	71,000	NA	23,000	15,000	2,300	10,000	NA	NA	45.63	20.88	24.95	NA	NA
MW-2	12/13/1993	19,000	NA	5,400	4,900	680	3,100	NA	NA	45.63	20.42	25.41	NA	NA
MW-2 (D)	12/13/1993	17,000	NA	6,200	5,500	720	3,500	NA	NA	45.63	20.42	25.41	NA	NA
MW-2	03/03/1994	110,000	NA	21,000	24,000	2000	13,000	NA	NA	45.63	18.48	27.35	NA	NA
MW-2 (D)	03/03/1994	93,000	NA	19,000	22,000	1,800	12,000	NA	NA	45.63	18.48	27.35	NA	NA
MW-2	06/06/1994	10,000	NA	1,900	3,300	2,500	13,000	NA	NA	45.63	20.26	25.57	NA	NA
MW-2 (D)	06/06/1994	99,000	NA	9,900	12,000	2,400	12,000	NA	NA	45.63	20.26	25.57	NA	NA
MW-2	09/12/1994	160,000	NA	22,000	33,000	3,400	23,000	NA	NA	45.63	21.80	24.03	NA	NA
MW-2 (D)	09/12/1994	150,000	NA	23,000	34,000	3,500	23,000	NA	NA	45.63	21.80	24.03	NA	NA
MW-2	12/19/1994	80,000	NA	17,000	16,000	2,300	14,000	NA	NA	45.63	19.66	26.17	NA	NA
MW-2 (D)	12/19/1994	100,000	NA	28,000	26,000	3,400	20,000	NA	NA	45.63	19.66	26.17	NA	NA
MW-2	02/28/1995	100,000	NA	24,000	18,000	2,300	17,000	NA	NA	45.63	17.51	28.32	NA	NA
MW-2 (D)	02/28/1995	100,000	NA	31,000	21,000	3,200	18,000	NA	NA	45.63	17.51	28.32	NA	NA
MW-2	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	45.63	14.88	30.95	NA	NA
MW-2	06/26/1995	45,000	NA	14,000	12,000	1,500	7,500	NA	NA	45.63	17.58	28.25	NA	NA

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MW-2 (D)	06/26/1995	68,000	NA	13,000	11,000	1,800	7,700	NA	NA	45.63	17.58	28.25	NA	NA
MW-2	09/13/1995	110,000	NA	19,000	19,000	2,800	15,000	NA	NA	45.63	19.28	26.55	NA	NA
MW-2 (D)	09/13/1995	120,000	NA	20,000	20,000	2,900	15,000	NA	NA	45.63	19.28	26.55	NA	NA
MW-2	12/19/1995	180,000	NA	18,000	29,000	4,100	24,000	NA	NA	45.63	18.61	27.22	NA	NA
MW-2 (D)	12/19/1995	160,000	NA	18,000	28,000	3,800	24,000	NA	NA	45.63	18.61	27.22	NA	NA
MW-2	03/06/1996	120,000	NA	28,000	15,000	3,900	17,000	NA	NA	45.63	15.41	30.42	NA	NA
MW-2	06/28/1996	96,000	NA	20,000	20,000	4,100	22,000	2,400	NA	45.63	17.84	27.99	NA	NA
MW-2	09/26/1996	87,000	NA	7,600	11,000	2,500	15,000	990	840	45.63	19.60	26.23	NA	NA
MW-2	12/10/1996	NA	NA	NA	NA	NA	NA	NA	NA	45.63	18.15	27.48	0.25	NA
MW-2	03/10/1997	NA	NA	NA	NA	NA	NA	NA	NA	45.63	17.02	28.77	0.20	NA
MW-2	06/30/1997	57,000	NA	3,600	4,600	1,300	9,700	2,300	NA	45.63	19.42	26.21	NA	2.4
MW-2	09/12/1997	88,000	NA	7,800	8,800	2,600	16,000	3,200	NA	45.63	19.40	26.23	NA	1.7
MW-2 (D)	09/12/1997	90,000	NA	8,300	9,400	2,700	17,000	3,400	NA	45.63	19.40	26.23	NA	1.7
MW-2 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	45.63	17.56	28.07	NA	1.3
MW-2	02/02/1998	<50	NA	0.6	1.9	0.93	6.0	9.3	NA	45.63	18.14	27.49	NA	2
MW-2 (D)	02/02/1998	56	NA	1.0	2.8	1.4	9.3	13	NA	45.63	18.14	27.49	NA	2
MW-2	06/24/1998	20,000	NA	<200	620	560	4,500	<1,000	NA	45.63	16.08	29.55	NA	2.4
MW-2	08/26/1998	22,000	NA	380	1,100	560	4,400	330	NA	45.63	19.25	26.38	NA	NA
MW-2 (D)	08/26/1998	11,000	NA	180	130	290	500	1,400	NA	45.63	19.25	26.38	NA	NA
MW-2	12/23/1998	100,000	NA	4100	6,500	2400	16,000	<500	NA	45.63	18.29	27.34	NA	3.8
MW-3	02/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	27.97	24.00	NA	NA
MW-3	02/24/1992	4,500	1,300a	97	<5	78	18	NA	NA	51.97	25.60	26.37	NA	NA
MW-3	02/27/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	25.88	26.09	NA	NA
MW-3	03/01/1992	2,200	440	69	<0.5	<0.5	<0.5	NA	NA	51.97	26.00	25.97	NA	NA
MW-3	06/03/1992	4,100	NA	13	72	44	65	NA	NA	51.97	27.70	24.27	NA	NA
MW-3	09/01/1992	1,900	NA	20	6.8	5.5	<5	NA	NA	51.97	29.46	22.51	NA	NA
MW-3 (D)	09/01/1992	1,900	NA	21	6.6	3.4	<5	NA	NA	51.97	29.46	22.51	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA
Wic #204-6852-1404

Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-3	10/06/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	30.01	21.96	NA	NA
MW-3	11/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	51.97	30.26	21.71	NA	NA
MW-3	12/04/1992	2,400	NA	8.2	<5	<5	<5	NA	NA	51.97	29.93	22.04	NA	NA
MW-3 (D)	12/04/1992	2,100	NA	11	<0.5	5.7	<0.5	NA	NA	51.97	29.93	22.04	NA	NA
MW-3	01/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	22.76	29.21	NA	NA
MW-3	02/10/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.40	30.57	NA	NA
MW-3	03/03/1993	5,100	NA	63	61	75	150	NA	NA	51.97	23.08	28.89	NA	NA
MW-3	05/11/1993	NA	NA	NA	NA	NA	NA	NA	NA	51.97	24.51	27.46	NA	NA
MW-3	06/17/1993	4,000	NA	94	140	82	150	NA	NA	51.97	25.21	26.76	NA	NA
MW-3	09/10/1993	3,200	NA	140	12.5	12.5	12.5	NA	NA	51.97	26.95	25.02	NA	NA
MW-3	12/13/1993	6,200	NA	<12.5	<12.5	<12.5	<12.5	NA	NA	51.97	26.52	25.45	NA	NA
MW-3	03/03/1994	4,500	NA	73	<5	<5	<5	NA	NA	51.97	24.50	27.47	NA	NA
MW-3	06/06/1994	3,200	NA	<0.5	<0.5	3.1	<0.5	NA	NA	51.97	26.33	25.64	NA	NA
MW-3	09/12/1994	3,900	NA	<0.5	<0.5	9.6	4.1	NA	NA	51.97	27.98	23.99	NA	NA
MW-3	12/19/1994	2,400	NA	21	22	4.2	2.6	NA	NA	51.97	25.63	26.34	NA	NA
MW-3	02/28/1995	4,000	NA	58	<0.5	7.1	3.5	NA	NA	51.97	23.45	28.52	NA	NA
MW-3	03/24/1995	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.07	30.90	NA	NA
MW-3	06/26/1995	3,900	NA	8.1	<0.5	12	2.4	NA	NA	51.97	23.64	28.33	NA	NA
MW-3	09/13/1995	4,100	NA	58	5.5	5.5	<0.5	NA	NA	51.97	25.40	26.57	NA	NA
MW-3	12/19/1995	3,600	NA	<0.5	4.3	2.1	1.1	NA	NA	51.97	24.53	27.44	NA	NA
MW-3	03/07/1996	NA	NA	NA	NA	NA	NA	NA	NA	51.97	21.59	30.41	0.04	NA
MW-3	06/28/1996	2,400	NA	55	<0.5	<0.5	11	120	NA	51.97	23.95	28.02	NA	NA
MW-3	09/26/1996	2,500	NA	<5.0	<5.0	<5.0	<5.0	160	NA	51.97	25.89	26.08	NA	NA
MW-3	12/10/1996	1,600	NA	28	4.2	<2.0	3.9	110	NA	51.97	24.22	27.75	NA	0.8
MW-3	03/10/1997	130	NA	<0.50	<0.50	<0.50	1.4	4.2	NA	51.97	23.05	28.92	NA	2.8
MW-3	06/30/1997	1,200	NA	21	2.3	<2.0	<2.0	69	NA	51.97	24.34	27.63	NA	2.3
MW-3	09/12/1997	440	NA	8.3	0.82	<0.50	1.9	3.4	NA	51.97	24.47	27.50	NA	1.9
MW-3 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	51.97	23.54	28.43	NA	0.8

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA
Wic #204-6852-1404

Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
MW-3	02/02/1998	400	NA	9.3	0.68	<0.50	<0.50	9	NA	51.97	21.92	30.05	NA	1.5
MW-3	06/24/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	51.97	22.35	29.62	NA	1.9
MW-3	08/26/1998	140	NA	7.4	<0.50	<0.50	2.5	13	NA	51.97	23.45	28.52	NA	1.3
MW-3	12/23/1998	1,200	NA	50	<2.0	<2.0	<2.0	69	NA	51.97	24.01	27.96	NA	4.2
MW-4	03/24/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	9.16	31.35	NA	NA
MW-4	06/26/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	12.06	28.45	NA	NA
MW-4	09/13/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	13.90	26.61	NA	NA
MW-4	12/19/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	12.90	27.61	NA	NA
MW-4	03/06/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	40.51	9.63	30.88	NA	NA
MW-4	06/28/1996	40	NA	<0.5	0.59	0.97	3.8	26	NA	40.51	12.30	28.21	NA	NA
MW-4	09/26/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	40.51	14.12	26.39	NA	NA
MW-4	12/10/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	40.51	12.31	28.20	NA	1.2
MW-4	03/10/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.34	29.17	NA	NA
MW-4	06/30/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	13.80	26.71	NA	1.9
MW-4	09/12/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	13.99	26.52	NA	1.7
MW-4 b	12/18/1997	NA	NA	NA	NA	NA	NA	NA	NA	40.51	12.02	28.49	NA	1.8
MW-4	02/02/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.23	29.28	NA	1
MW-4	06/24/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	10.58	29.93	NA	1.9
MW-4	08/26/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	40.51	11.75	28.76	NA	1.2
MW-4	12/23/1998	<50	NA	0.60	<0.50	<0.50	<0.50	<2.5	NA	40.51	12.41	28.10	NA	4.2

Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
 TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
 BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020

Notes:

a = Chromatogram pattern indicates an unidentified hydrocarbon.
 b = Samples not analyzed due to laboratory oversight.

WELL CONCENTRATIONS
Shell-branded Service Station
1784 150th Avenue
San Leandro, CA
Wic #204-6852-1404

Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
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MTBE = methyl-tertiary-butyl ether
 TOC = Top of Casing Elevation
 SPH = Separate-Phase Hydrocarbons
 GW = Groundwater
 DO = Dissolved Oxygen
 ug/L = parts per billion
 msl = Mean sea level
 ft = Feet
 <n = Below detection limit
 D = Duplicate sample



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

Project: Shell 1784 150th Ave.

Enclosed are the results from samples received at Sequoia Analytical on December 28, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9812G10 -01	LIQUID, MW-1	12/23/98	Halogen. Volatiles, Water
9812G10 -01	LIQUID, MW-1	12/23/98	TPPH/BTEX/MTBE (Concord)
9812G10 -02	LIQUID, MW-2	12/23/98	Halogen. Volatiles, Water
9812G10 -02	LIQUID, MW-2	12/23/98	TPPH/BTEX/MTBE (Concord)
9812G10 -03	LIQUID, MW-3	12/23/98	Halogen. Volatiles, Water
9812G10 -03	LIQUID, MW-3	12/23/98	TPPH/BTEX/MTBE (Concord)
9812G10 -04	LIQUID, MW-4	12/23/98	Halogen. Volatiles, Water
9812G10 -04	LIQUID, MW-4	12/23/98	TPPH/BTEX/MTBE (Concord)

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager





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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 1784 150th Ave.
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9812G10-01

Sampled: 12/23/98
Received: 12/28/98
Analyzed: 01/06/99
Reported: 01/11/99

Attention: Fran Thie

QC Batch Number: GC010699OVOA29A

Instrument ID: GCHP29

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	10	N.D.
Carbon Tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	10	N.D.
Chloroform	5.0	N.D.
Chloromethane	10	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	35
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-3-fluorobenzene	70 130	101

Analyses 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 1784 150th Ave. Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9812G10-01	Sampled: 12/23/98 Received: 12/28/98 Analyzed: 01/06/99 Reported: 01/11/99
Attention: Fran Thie		

QC Batch Number: GC010699BTEX05A
Instrument ID: GCHP5

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	45000
Methyl t-Butyl Ether	250	970
Benzene	50	5300
Toluene	50	220
Ethyl Benzene	50	1000
Xylenes (Total)	50	3600
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	94

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





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Glaine Tech Services
680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 1784 150th Ave.
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9812G10-02

Sampled: 12/23/98
Received: 12/28/98
Analyzed: 01/06/99
Reported: 01/11/99

Batch Number: GC010699OVOA29A
Instrument ID: GCHP29

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.0	N.D.
Carbon Tetrachloride	1.0	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.0	N.D.
Chloroform	1.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	1.0	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	22
1,1-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	2.0	N.D.

Surrogates	Control Limits %	% Recovery
1-Chloro-3-fluorobenzene	70	108

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

SEQUOIA ANALYTICAL - ELAP #1210

Loggy Penner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9812G10-02	Sampled: 12/23/98 Received: 12/28/98 Analyzed: 01/06/99 Reported: 01/11/99
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QC Batch Number: GC010699BTEX05A
Instrument ID: GCHP5

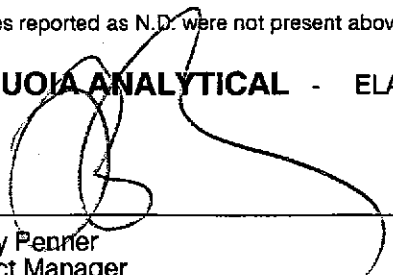
Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	100000
Methyl t-Butyl Ether	500	N.D.
Benzene	100	4100
Toluene	100	6500
Ethyl Benzene	100	2400
Xylenes (Total)	100	16000
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Descript: MW-3 Matrix: LIQUID Analysis Method: EPA 8010 Lab Number: 9812G10-03	Sampled: 12/23/98 Received: 12/28/98 Analyzed: 01/06/99 Reported: 01/11/99
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QC Batch Number: GC010699OVOA29A
Instrument ID: GCHP29

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	2.5	N.D.
Bromoform	2.5	N.D.
Bromomethane	5.0	N.D.
Carbon Tetrachloride	2.5	N.D.
Chlorobenzene	2.5	N.D.
Chloroethane	5.0	N.D.
Chloroform	2.5	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	2.5	N.D.
1,2-Dichlorobenzene	2.5	N.D.
1,3-Dichlorobenzene	2.5	N.D.
1,4-Dichlorobenzene	2.5	N.D.
1,1-Dichloroethane	2.5	N.D.
1,2-Dichloroethane	2.5	82
1,1-Dichloroethene	2.5	N.D.
cis-1,2-Dichloroethene	2.5	N.D.
trans-1,2-Dichloroethene	2.5	N.D.
1,2-Dichloropropane	2.5	N.D.
cis-1,3-Dichloropropene	2.5	N.D.
trans-1,3-Dichloropropene	2.5	N.D.
Methylene chloride	25	N.D.
1,1,2,2-Tetrachloroethane	2.5	N.D.
Tetrachloroethene	2.5	N.D.
1,1,1-Trichloroethane	2.5	N.D.
1,1,2-Trichloroethane	2.5	N.D.
Trichloroethene	2.5	N.D.
Trichlorofluoromethane	2.5	N.D.
Vinyl chloride	5.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-3-fluorobenzene	70 130	108

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell 1784 150th Ave. Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9812G10-03	Sampled: 12/23/98 Received: 12/28/98 Analyzed: 01/06/99 Reported: 01/11/99
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QC Batch Number: GC010699BTEX05A
Instrument ID: GCHP5

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	200	1200
Methyl t-Butyl Ether	10	69
Benzene	2.0	50
Toluene	2.0	N.D.
Ethyl Benzene	2.0	N.D.
Xylenes (Total)	2.0	N.D.
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	97

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





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Petaluma, CA 94954

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(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 1784 150th Ave.
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9812G10-04

Sampled: 12/23/98
Received: 12/28/98
Analyzed: 01/06/99
Reported: 01/11/99

Attention: Fran Thie

C Batch Number: GC010599OVOA29B
Instrument ID: GCHP29

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.
Surrogates	Control Limits %	% Recovery
1-Chloro-3-fluorobenzene	70 130	110

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

EQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Sequoia
Analytical

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

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: Shell 1784 150th Ave.
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9812G10-04

Sampled: 12/23/98
Received: 12/28/98
Analyzed: 01/06/99
Reported: 01/11/99

QC Batch Number: GC010699BTEX05A
Instrument ID: GCHP5

Total Purgeable Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	0.60
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	100

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





**Sequoia
Analytical**

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

Client Project ID: Shell 1784 150th Ave.

QC Sample Group: 9812G10-01-03

Reported: Jan 11, 1999

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8010/601
Analyst: Hankermeyer

ANALYTE 1,1-DCE TCE chlorobenzene

QC Batch #: GC0106990VOA29A

Sample No.: 9812125-01

Date Prepared:	1/4/99	1/4/99	1/4/99
Date Analyzed:	1/5/99	1/5/99	1/5/99
Instrument I.D.#:	GCHP29	GCHP29	GCHP29

Sample Conc., ug/L:	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	25	25	25
Matrix Spike, ug/L:	19	23	23
% Recovery:	76	92	92

Matrix pike Duplicate, ug/L:	20	27	29
% Recovery:	80	108	116

Relative % Difference: 5.1 16 23

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

LCS Batch#: VWLCS010699A

Date Prepared:	1/6/99	1/6/99	1/6/99
Date Analyzed:	1/6/99	1/6/99	1/6/99
Instrument I.D.#:	GCHP29	GCHP29	GCHP29

Conc. Spiked, ug/L:	25	25	25
Recovery, ug/L:	23	27	24
LCS % Recovery:	92	108	96

Percent Recovery Control Limits:

MSMSD	70-140	70-140	70-140
LCS	65-135	70-130	70-130

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

SEQUOIA ANALYTICAL

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.

Peggy Penner
Project Manager





Sequoia
Analytical

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

Client Project ID: Shell 1784 150th Ave.

QC Sample Group: 9812G10-04

Reported: Jan 11, 1999

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8010/601
Analyst: Hankermeyer

ANALYTE 1,1-DCE TCE chlorobenzene

QC Batch #: GC0105990VOA29B

Sample No.: 9812I25-01

Date Prepared: 1/4/99 1/4/99 1/4/99

Date Analyzed: 1/5/99 1/5/99 1/5/99

Instrument I.D.#: GCHP29 GCHP29 GCHP29

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

Conc. Spiked, ug/L: 25 25 25

Matrix Spike, ug/L: 19 23 23

% Recovery: 76 92 92

Matrix

pike Duplicate, ug/L: 20 27 29

% Recovery: 80 108 116

relative % Difference: 5.1 16 23

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

LCS Batch#: VWLCS010599A

Date Prepared: 1/5/99 1/5/99 1/5/99

Date Analyzed: 1/5/99 1/5/99 1/5/99

Instrument I.D.#: GCHP29 GCHP29 GCHP29

Conc. Spiked, ug/L: 25 25 25

Recovery, ug/L: 21 25 24

LCS % Recovery: 84 100.0 96

Percent Recovery Control Limits:

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

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

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager





Sequoia Analytical

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

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

Work Order #: 9812G10 -01-04

Reported: Jan 12, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	BTEX as TPH
QC Batch#:	GC010699802005A	GC010699802005A	GC010699802005A	GC010699802005A	GC010699802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	C. Westwater	C. Westwater	C. Westwater	C. Westwater	C. Westwater
MS/MSD #:	8122250	8122250	8122250	8122250	8122250
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/6/99	1/6/99	1/6/99	1/6/99	1/6/99
Analyzed Date:	1/6/99	1/6/99	1/6/99	1/6/99	1/6/99
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	290 µg/L
Result:	20	20	20	63	290
MS % Recovery:	100	100	100	105	100
Dup. Result:	19	19	19	59	270
MSD % Recov.:	95	95	95	98	93
RPD:	5.1	5.1	5.1	6.6	7.1
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS010699	LCS010699	LCS010699	LCS010699	LCS010699
Prepared Date:	1/6/99	1/6/99	1/6/99	1/6/99	1/6/99
Analyzed Date:	1/6/99	1/6/99	1/6/99	1/6/99	1/6/99
Instrument I.D.#:	HP5	HP5	HP5	HP5	HP5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	290 µg/L
LCS Result:	19	20	20	63	290
LCS % Recov.:	95	100	100	105	100

MS/MSD	60-140	60-140	60-140	60-140	
LCS	70-130	70-130	70-130	70-130	50-150
Control Limits					

SEQUOIA ANALYTICAL
Elap #1271

Peggy Penner
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9812G10.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 1784 150th Ave.
Lab Proj. ID: 9812G10

Received: 12/28/98
Reported: 01/11/99

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 6 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

8010: Sample #1 and 2 have high BTEX and gas.

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager





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

WIC#: 204-6852-1404

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

Consultant Name & Address: Bialine 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: John Raniel

Printed Name: John Raniel 9812610

Analysis Required

LAB: SEQUOTA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	15 days <input type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Helly Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of confs.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/502)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 (MTBE)	Asbestos	Container Size	Preparation Used	Composite Y/N	
MW-1	12/23			X		6						X	X				
MW-2	12/23			X		6						X	X				
MW-3	12/23			X		6						X	X				
MW-4	12/23			X		6						X	X				

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
	61
	02
	03
	09

Relinquished By (signature): John Raniel
Printed Name: John Raniel
Date: 12/23/98
Time: 9:15

Received (signature): [Signature]
Printed Name: _____
Date: 12-28-98
Time: _____

Received (signature): [Signature]
Printed Name: CAROL A. DAVIDSON
Date: 12-28-98
Time: 9:19

Relinquished By (signature): [Signature]
Printed Name: _____
Date: _____
Time: _____

Received (signature): [Signature]
Printed Name: _____
Date: _____
Time: _____

Received (signature): [Signature]
Printed Name: Mei
Date: 12-28-98
Time: 12:46

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

12 46

ATTACHMENT B

Analytical Report for Soil Samples



Sequoia Analytical

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FAX (707) 792-0342

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Davryk Ataide

Project: Shell 1784 150th Ave

Enclosed are the results from samples received at Sequoia Analytical on November 12, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9811837 -01	SOLID, SVS-14-19.5	11/11/98	Fraction Organic Carbon
9811837 -01	SOLID, SVS-14-19.5	11/11/98	Moisture, Percent
9811837 -01	SOLID, SVS-14-19.5	11/11/98	Purgeable TPH/BTEX/MTBE
9811837 -01	SOLID, SVS-14-19.5	11/11/98	Bulk Density
9811837 -01	SOLID, SVS-14-19.5	11/11/98	Porosity
9811837 -02	SOLID, SVS-14-15	11/11/98	Fraction Organic Carbon
9811837 -02	SOLID, SVS-14-15	11/11/98	Moisture, Percent
9811837 -02	SOLID, SVS-14-15	11/11/98	Purgeable TPH/BTEX/MTBE
9811837 -02	SOLID, SVS-14-15	11/11/98	Bulk Density
9811837 -02	SOLID, SVS-14-15	11/11/98	Porosity
9811837 -03	SOLID, SVS-14-10	11/11/98	Fraction Organic Carbon
9811837 -03	SOLID, SVS-14-10	11/11/98	Moisture, Percent
9811837 -03	SOLID, SVS-14-10	11/11/98	Purgeable TPH/BTEX/MTBE
9811837 -03	SOLID, SVS-14-10	11/11/98	Bulk Density
9811837 -03	SOLID, SVS-14-10	11/11/98	Porosity
9811837 -04	SOLID, SVS-15-15.5	11/11/98	Fraction Organic Carbon
9811837 -04	SOLID, SVS-15-15.5	11/11/98	Moisture, Percent
9811837 -04	SOLID, SVS-15-15.5	11/11/98	Purgeable TPH/BTEX/MTBE
9811837 -04	SOLID, SVS-15-15.5	11/11/98	Bulk Density
9811837 -04	SOLID, SVS-15-15.5	11/11/98	Porosity
9811837 -05	SOLID, SVS-15-10	11/11/98	Fraction Organic Carbon

SEQUOIA ANALYTICAL





Sequoia Analytical

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<u>AMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
811837 -05	SOLID, SVS-15-10	11/11/98	Moisture, Percent
811837 -05	SOLID, SVS-15-10	11/11/98	Purgeable TPH/BTEX/MTBE
811837 -05	SOLID, SVS-15-10	11/11/98	Bulk Density
811837 -05	SOLID, SVS-15-10	11/11/98	Porosity
811837 -06	SOLID, SVS-15-10.5	11/11/98	Fraction Organic Carbon
811837 -06	SOLID, SVS-15-10.5	11/11/98	Moisture, Percent
811837 -06	SOLID, SVS-15-10.5	11/11/98	Purgeable TPH/BTEX/MTBE
811837 -06	SOLID, SVS-15-10.5	11/11/98	Bulk Density
811837 -06	SOLID, SVS-15-10.5	11/11/98	Porosity
811837 -07	SOLID, SVS-15-15	11/11/98	Fraction Organic Carbon
811837 -07	SOLID, SVS-15-15	11/11/98	Moisture, Percent
811837 -07	SOLID, SVS-15-15	11/11/98	Purgeable TPH/BTEX/MTBE
811837 -07	SOLID, SVS-15-15	11/11/98	Bulk Density
811837 -07	SOLID, SVS-15-15	11/11/98	Porosity
811837 -08	SOLID, SVS-14-19	11/11/98	Fraction Organic Carbon
811837 -08	SOLID, SVS-14-19	11/11/98	Moisture, Percent
811837 -08	SOLID, SVS-14-19	11/11/98	MTBE by 8260
811837 -08	SOLID, SVS-14-19	11/11/98	Purgeable TPH/BTEX/MTBE
811837 -08	SOLID, SVS-14-19	11/11/98	Bulk Density
811837 -08	SOLID, SVS-14-19	11/11/98	Porosity
811837 -09	SOLID, SVS-14-5.5	11/11/98	Fraction Organic Carbon
811837 -09	SOLID, SVS-14-5.5	11/11/98	Moisture, Percent
811837 -09	SOLID, SVS-14-5.5	11/11/98	Purgeable TPH/BTEX/MTBE
811837 -09	SOLID, SVS-14-5.5	11/11/98	Bulk Density
811837 -09	SOLID, SVS-14-5.5	11/11/98	Porosity





Sequoia Analytical

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<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9811837 -10	SOLID, SVS-16-10.5	11/11/98	Fraction Organic Carbon
9811837 -10	SOLID, SVS-16-10.5	11/11/98	Moisture, Percent
9811837 -10	SOLID, SVS-16-10.5	11/11/98	Purgeable TPH/BTEX/MTBE
9811837 -10	SOLID, SVS-16-10.5	11/11/98	Bulk Density
9811837 -10	SOLID, SVS-16-10.5	11/11/98	Porosity
9811837 -11	SOLID, SVS-16-15	11/11/98	Fraction Organic Carbon
9811837 -11	SOLID, SVS-16-15	11/11/98	Moisture, Percent
9811837 -11	SOLID, SVS-16-15	11/11/98	Purgeable TPH/BTEX/MTBE
9811837 -11	SOLID, SVS-16-15	11/11/98	Bulk Density
9811837 -11	SOLID, SVS-16-15	11/11/98	Porosity
9811837 -12	SOLID, SVS-16-10	11/11/98	Fraction Organic Carbon
9811837 -12	SOLID, SVS-16-10	11/11/98	Moisture, Percent
9811837 -12	SOLID, SVS-16-10	11/11/98	Purgeable TPH/BTEX/MTBE
9811837 -12	SOLID, SVS-16-10	11/11/98	Bulk Density
9811837 -12	SOLID, SVS-16-10	11/11/98	Porosity
9811837 -13	SOLID, SVS-14-10.5	11/11/98	Fraction Organic Carbon
9811837 -13	SOLID, SVS-14-10.5	11/11/98	Moisture, Percent
9811837 -13	SOLID, SVS-14-10.5	11/11/98	Purgeable TPH/BTEX/MTBE
9811837 -13	SOLID, SVS-14-10.5	11/11/98	Bulk Density
9811837 -13	SOLID, SVS-14-10.5	11/11/98	Porosity
9811837 -14	SOLID, SVS-14-15.5	11/11/98	Fraction Organic Carbon
9811837 -14	SOLID, SVS-14-15.5	11/11/98	Moisture, Percent
9811837 -14	SOLID, SVS-14-15.5	11/11/98	Purgeable TPH/BTEX/MTBE
9811837 -14	SOLID, SVS-14-15.5	11/11/98	Bulk Density
9811837 -14	SOLID, SVS-14-15.5	11/11/98	Porosity

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<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
1811837 -15	SOLID, SVS-16-15.5	11/11/98	Fraction Organic Carbon
1811837 -15	SOLID, SVS-16-15.5	11/11/98	Moisture, Percent
1811837 -15	SOLID, SVS-16-15.5	11/11/98	Purgeable TPH/BTEX/MTBE
1811837 -15	SOLID, SVS-16-15.5	11/11/98	Bulk Density
1811837 -15	SOLID, SVS-16-15.5	11/11/98	Porosity
1811837 -16	SOLID, SVS-14-5	11/11/98	Fraction Organic Carbon
1811837 -16	SOLID, SVS-14-5	11/11/98	Moisture, Percent
1811837 -16	SOLID, SVS-14-5	11/11/98	Purgeable TPH/BTEX/MTBE
1811837 -16	SOLID, SVS-14-5	11/11/98	Bulk Density
1811837 -16	SOLID, SVS-14-5	11/11/98	Porosity
1811837 -17	SOLID, SVS-16-5	11/11/98	Fraction Organic Carbon
1811837 -17	SOLID, SVS-16-5	11/11/98	Moisture, Percent
1811837 -17	SOLID, SVS-16-5	11/11/98	Purgeable TPH/BTEX/MTBE
1811837 -17	SOLID, SVS-16-5	11/11/98	Bulk Density
1811837 -17	SOLID, SVS-16-5	11/11/98	Porosity
1811837 -18	SOLID, SVS-15-20	11/11/98	Fraction Organic Carbon
1811837 -18	SOLID, SVS-15-20	11/11/98	Moisture, Percent
1811837 -18	SOLID, SVS-15-20	11/11/98	Purgeable TPH/BTEX/MTBE
1811837 -18	SOLID, SVS-15-20	11/11/98	Bulk Density
1811837 -18	SOLID, SVS-15-20	11/11/98	Porosity
1811837 -19	SOLID, SVS-15-19.5	11/11/98	Fraction Organic Carbon
1811837 -19	SOLID, SVS-15-19.5	11/11/98	Moisture, Percent
1811837 -19	SOLID, SVS-15-19.5	11/11/98	Purgeable TPH/BTEX/MTBE
1811837 -19	SOLID, SVS-15-19.5	11/11/98	Bulk Density
1811837 -19	SOLID, SVS-15-19.5	11/11/98	Porosity





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<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9811837 -20	SOLID, SVS-15-5	11/11/98	Fraction Organic Carbon
9811837 -20	SOLID, SVS-15-5	11/11/98	Moisture, Percent
9811837 -20	SOLID, SVS-15-5	11/11/98	Purgeable TPH/BTEX/MTBE
9811837 -20	SOLID, SVS-15-5	11/11/98	Bulk Density
9811837 -20	SOLID, SVS-15-5	11/11/98	Porosity
9811837 -21	SOLID, SVS-16-5.5	11/11/98	Fraction Organic Carbon
9811837 -21	SOLID, SVS-16-5.5	11/11/98	Moisture, Percent
9811837 -21	SOLID, SVS-16-5.5	11/11/98	Purgeable TPH/BTEX/MTBE
9811837 -21	SOLID, SVS-16-5.5	11/11/98	Bulk Density
9811837 -21	SOLID, SVS-16-5.5	11/11/98	Porosity
9811837 -22	SOLID, SVS-11-6	11/10/98	Fraction Organic Carbon
9811837 -22	SOLID, SVS-11-6	11/10/98	Moisture, Percent
9811837 -22	SOLID, SVS-11-6	11/10/98	Purgeable TPH/BTEX/MTBE
9811837 -22	SOLID, SVS-11-6	11/10/98	Bulk Density
9811837 -22	SOLID, SVS-11-6	11/10/98	Porosity
9811837 -23	SOLID, SVS-11-15.5	11/10/98	Fraction Organic Carbon
9811837 -23	SOLID, SVS-11-15.5	11/10/98	Moisture, Percent
9811837 -23	SOLID, SVS-11-15.5	11/10/98	Purgeable TPH/BTEX/MTBE
9811837 -23	SOLID, SVS-11-15.5	11/10/98	Bulk Density
9811837 -23	SOLID, SVS-11-15.5	11/10/98	Porosity
9811837 -24	SOLID, SVS-11-5.5	11/10/98	Fraction Organic Carbon
9811837 -24	SOLID, SVS-11-5.5	11/10/98	Moisture, Percent
9811837 -24	SOLID, SVS-11-5.5	11/10/98	Purgeable TPH/BTEX/MTBE
9811837 -24	SOLID, SVS-11-5.5	11/10/98	Bulk Density
9811837 -24	SOLID, SVS-11-5.5	11/10/98	Porosity

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<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
811837 -25	SOLID, SVS-11-10	11/10/98	Fraction Organic Carbon
811837 -25	SOLID, SVS-11-10	11/10/98	Moisture, Percent
811837 -25	SOLID, SVS-11-10	11/10/98	Purgeable TPH/BTEX/MTBE
811837 -25	SOLID, SVS-11-10	11/10/98	Bulk Density
811837 -25	SOLID, SVS-11-10	11/10/98	Porosity
811837 -26	SOLID, SVS-11-19	11/10/98	Fraction Organic Carbon
811837 -26	SOLID, SVS-11-19	11/10/98	Moisture, Percent
811837 -26	SOLID, SVS-11-19	11/10/98	Purgeable TPH/BTEX/MTBE
811837 -26	SOLID, SVS-11-19	11/10/98	Bulk Density
811837 -26	SOLID, SVS-11-19	11/10/98	Porosity
811837 -27	SOLID, SVS-11-9.5	11/10/98	Fraction Organic Carbon
811837 -27	SOLID, SVS-11-9.5	11/10/98	Moisture, Percent
811837 -27	SOLID, SVS-11-9.5	11/10/98	Purgeable TPH/BTEX/MTBE
811837 -27	SOLID, SVS-11-9.5	11/10/98	Bulk Density
811837 -27	SOLID, SVS-11-9.5	11/10/98	Porosity
811837 -28	SOLID, SVS-11-15	11/10/98	Fraction Organic Carbon
811837 -28	SOLID, SVS-11-15	11/10/98	Moisture, Percent
811837 -28	SOLID, SVS-11-15	11/10/98	Purgeable TPH/BTEX/MTBE
811837 -28	SOLID, SVS-11-15	11/10/98	Bulk Density
811837 -28	SOLID, SVS-11-15	11/10/98	Porosity

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

eggy Penner
Project Manager





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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Davryk Ataide

Project: Shell 1784 150th Ave

Enclosed are the results from samples received at Sequoia Analytical on November 12, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9811838 -29	SOLID, SVS-11-19.5	11/10/98	Fraction Organic Carbon
9811838 -29	SOLID, SVS-11-19.5	11/10/98	Moisture, Percent
9811838 -29	SOLID, SVS-11-19.5	11/10/98	Purgeable TPH/BTEX/MTBE
9811838 -29	SOLID, SVS-11-19.5	11/10/98	Bulk Density
9811838 -29	SOLID, SVS-11-19.5	11/10/98	Porosity
9811838 -30	SOLID, SVS-15-4.5	11/11/98	Fraction Organic Carbon
9811838 -30	SOLID, SVS-15-4.5	11/11/98	Moisture, Percent
9811838 -30	SOLID, SVS-15-4.5	11/11/98	Purgeable TPH/BTEX/MTBE
9811838 -30	SOLID, SVS-15-4.5	11/11/98	Bulk Density
9811838 -30	SOLID, SVS-15-4.5	11/11/98	Porosity

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





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Lab Proj. ID: 9811837	Sampled: 11/11/98 Received: 11/12/98 Analyzed: see below Reported: 12/06/98
Attention: Davryk Ataide		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9811837-01 Sample Desc: SOLID,SVS-14-19.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/19/98	0.020	0.096
Moisture, Percent	%	11/18/98	1.0	19
Porosity	-			Attached
Lab No: 9811837-02 Sample Desc: SOLID,SVS-14-15				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/19/98	0.020	0.071
Moisture, Percent	%	11/18/98	1.0	16
Porosity	-			Attached
Lab No: 9811837-03 Sample Desc: SOLID,SVS-14-10				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/19/98	0.020	0.14
Moisture, Percent	%	11/18/98	1.0	17
Porosity	-			Attached
Lab No: 9811837-04 Sample Desc: SOLID,SVS-15-15.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/19/98	0.020	0.053
Moisture, Percent	%	11/18/98	1.0	15
Porosity	-			Attached

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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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Lab Proj. ID: 9811837	Sampled: 11/11/98 Received: 11/12/98 Analyzed: see below Reported: 12/06/98
Attention: Davryk Ataide		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9811837-05 Sample Desc: SOLID,SVS-15-10				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/19/98	0.020	0.082
Moisture, Percent	%	11/18/98	1.0	18
Porosity	-			Attached
Lab No: 9811837-06 Sample Desc: SOLID,SVS-15-10.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/19/98	0.020	0.089
Moisture, Percent	%	11/18/98	1.0	15
Porosity	-			Attached
Lab No: 9811837-07 Sample Desc: SOLID,SVS-15-15				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/19/98	0.020	0.23
Moisture, Percent	%	11/18/98	1.0	17
Porosity	-			Attached
Lab No: 9811837-08 Sample Desc: SOLID,SVS-14-19				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/19/98	0.020	0.10
Moisture, Percent	%	11/18/98	1.0	19
Porosity	-			Attached

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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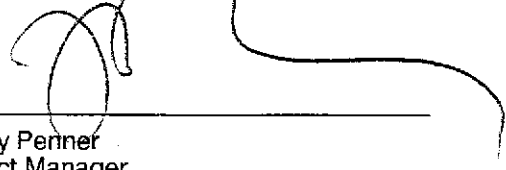
Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Lab Proj. ID: 9811837	Sampled: 11/11/98 Received: 11/12/98 Analyzed: see below Reported: 12/06/98
Attention: Davryk Ataide		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9811837-09 Sample Desc : SOLID,SVS-14-5.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/19/98	0.020	0.21
Moisture, Percent	%	11/18/98	1.0	24
Porosity	-			Attached
Lab No: 9811837-10 Sample Desc : SOLID,SVS-16-10.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/19/98	0.020	0.11
Moisture, Percent	%	11/18/98	1.0	16
Porosity	-			Attached
Lab No: 9811837-11 Sample Desc : SOLID,SVS-16-15				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/20/98	0.020	0.10
Moisture, Percent	%	11/18/98	1.0	16
Porosity	-			Attached
Lab No: 9811837-12 Sample Desc : SOLID,SVS-16-10				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/20/98	0.020	0.11
Moisture, Percent	%	11/18/98	1.0	16
Porosity	-			Attached

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Pernner
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Lab Proj. ID: 9811837	Sampled: 11/11/98 Received: 11/12/98 Analyzed: see below Reported: 12/06/98
Attention: Davryk Ataide		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9811837-13 Sample Desc: SOLID,SVS-14-10.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/20/98	0.020	0.065
Moisture, Percent	%	11/18/98	1.0	13
Porosity	-			Attached
Lab No: 9811837-14 Sample Desc: SOLID,SVS-14-15.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/20/98	0.020	0.078
Moisture, Percent	%	11/18/98	1.0	16
Porosity	-			Attached
Lab No: 9811837-15 Sample Desc: SOLID,SVS-16-15.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/20/98	0.020	0.098
Moisture, Percent	%	11/18/98	1.0	15
Porosity	-			Attached
Lab No: 9811837-16 Sample Desc: SOLID,SVS-14-5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/20/98	0.020	0.93
Moisture, Percent	%	11/18/98	1.0	24
Porosity	-			Attached

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

SEQUOIA-ANALYTICAL - ELAP #1210

Peggy Penner
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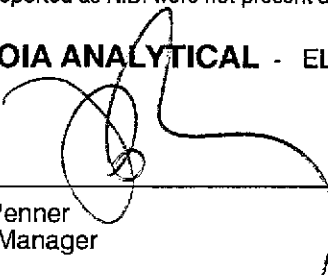
Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Lab Proj. ID: 9811837	Sampled: 11/11/98 Received: 11/12/98 Analyzed: see below Reported: 12/06/98
Attention: Davryk Ataide		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9811837-17 Sample Desc: SOLID,SVS-16-5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/20/98	0.020	0.68
Moisture, Percent	%	11/18/98	1.0	22
Porosity	-			Attached
Lab No: 9811837-18 Sample Desc: SOLID,SVS-15-20				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/20/98	0.020	0.094
Moisture, Percent	%	11/18/98	1.0	19
Porosity	-			Attached
Lab No: 9811837-19 Sample Desc: SOLID,SVS-15-19.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/20/98	0.020	0.082
Moisture, Percent	%	11/18/98	1.0	16
Porosity	-			Attached
Lab No: 9811837-20 Sample Desc: SOLID,SVS-15-5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/20/98	0.020	1.0
Moisture, Percent	%	11/18/98	1.0	25
Porosity	-			Attached

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

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Client Proj. ID: Shell 1784 150th Ave

Lab Proj. ID: 9811837

Sampled: 11/11/98
Received: 11/12/98
Analyzed: see below

Attention: Davryk Ataide

Reported: 12/06/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No:		9811837-21		
Sample Desc :		SOLID,SVS-16-5.5		
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/24/98	0.020	0.69
Moisture, Percent		11/18/98	1.0	22
Porosity	-			Attached

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

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Peggy Penner
Project Manager





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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave	Sampled: 11/10/98 Received: 11/12/98 Analyzed: see below
Attention: Davryk Ataide	Lab Proj. ID: 9811837	Reported: 12/06/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9811837-22 Sample Desc: SOLID,SVS-11-6				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/24/98	0.020	0.92
Moisture, Percent	%	11/16/98	1.0	23
Porosity	-			Attached
Lab No: 9811837-23 Sample Desc: SOLID,SVS-11-15.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/24/98	0.020	0.68
Moisture, Percent	%	11/16/98	1.0	14
Porosity	-			Attached
Lab No: 9811837-24 Sample Desc: SOLID,SVS-11-5.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/24/98	0.020	0.91
Moisture, Percent	%	11/16/98	1.0	23
Porosity	-			Attached
Lab No: 9811837-25 Sample Desc: SOLID,SVS-11-10				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/24/98	0.020	0.45
Moisture, Percent	%	11/16/98	1.0	23
Porosity	-			Attached

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Lab Proj. ID: 9811837	Sampled: 11/10/98 Received: 11/12/98 Analyzed: see below Reported: 12/06/98
Attention: Davryk Ataide		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9811837-26 Sample Desc : SOLID,SVS-11-19				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/24/98	0.020	0.095
Moisture, Percent	%	11/16/98	1.0	18
Porosity	-			Attached
Lab No: 9811837-27 Sample Desc : SOLID,SVS-11-9.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/24/98	0.020	0.98
Moisture, Percent	%	11/16/98	1.0	22
Porosity	-			Attached
Lab No: 9811837-28 Sample Desc : SOLID,SVS-11-15				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/24/98	0.020	0.37
Moisture, Percent	%	11/16/98	1.0	19
Porosity	-			Attached

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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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Davryk Ataide	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-14-19.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-01	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/16/98 Reported: 12/06/98
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GC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Client Proj. ID: Shell 1784 150th Ave
Sample Descript: SVS-14-15
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9811837-02

Sampled: 11/11/98
Received: 11/12/98
Extracted: 11/16/98
Analyzed: 11/16/98
Reported: 12/06/98

QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	72
4-Bromofluorobenzene	60 140	80

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-14-10 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-03	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/17/98 Reported: 12/06/98
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GC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Renner
Project Manager





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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-15-15.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-04	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/16/98 Reported: 12/06/98
Attention: Davryk Ataide		

QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	77
4-Bromofluorobenzene	60 140	85

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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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-15-10 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-05	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/16/98 Reported: 12/06/98
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QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	76
4-Bromofluorobenzene	60 140	82

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

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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Davryk Atalde	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-15-10.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-06	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/16/98 Reported: 12/06/98
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QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	103
4-Bromofluorobenzene	60 140	88

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-15-15 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-07	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/17/98 Reported: 12/06/98
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QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP7

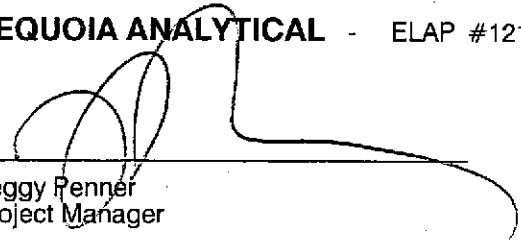
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.013
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92
4-Bromofluorobenzene	60	140	83

Analyses 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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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Davryk Ataide	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-14-19 Matrix: SOLID Analysis Method: EPA 8260 Lab Number: 9811837-08	Sampled: 11/11/98 Received: 11/12/98 Extracted: 12/03/98 Analyzed: 12/03/98 Reported: 12/06/98
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QC Batch Number: MS113098MTBEEEXA
Instrument ID: H6

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Methyl t-Butyl Ether	25	N.D.
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	70 121	86

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

SEQUOIA ANALYTICAL - ELAP #1210


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Cambria
1144 65th St. Suite C
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Client Proj. ID: Shell 1784 150th Ave
Sample Descript: SVS-14-19
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9811837-08

Sampled: 11/11/98
Received: 11/12/98
Extracted: 11/16/98
Analyzed: 11/16/98
Reported: 12/06/98

Attention: Davryk Ataide

QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	0.029
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	100
4-Bromofluorobenzene	60 140	88

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

SEQUOIA ANALYTICAL - ELAP #1210


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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-14-5.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-09	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/17/98 Reported: 12/06/98
Attention: Davryk Ataide		

QC Batch Number: GC111698BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	87
4-Bromofluorobenzene	60 140	81

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-16-10.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-10	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/16/98 Reported: 12/06/98
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QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

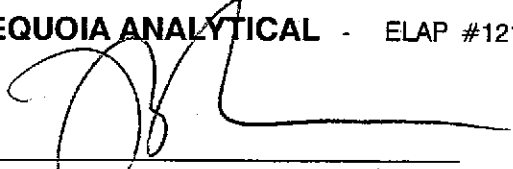
Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	0.026
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.0093

Chromatogram Pattern:

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104
4-Bromofluorobenzene	60	140	81

Analyses 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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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-16-15 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-11	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/16/98 Reported: 12/06/98
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QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102
4-Bromofluorobenzene	60 140	88

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Davryk Ataide	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-16-10 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-12	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/16/98 Reported: 12/06/98
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QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl <i>i</i> -Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-14-10.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-13	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/17/98 Reported: 12/06/98
Attention: Davryk Ataide		

QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	104
4-Bromofluorobenzene	60 140	98

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Davryk Ataide	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-14-15.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-14	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/17/98 Reported: 12/06/98
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QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	0.006
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	99
4-Bromofluorobenzene	60 140	91

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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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-16-15.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-15	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/16/98 Reported: 12/06/98
Attention: Davryk Ataide		

QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	95
4-Bromofluorobenzene	60 140	85

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-14-5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-16	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/17/98 Reported: 12/06/98
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QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	88
4-Bromofluorobenzene	60 140	76

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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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-16-5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-17	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/17/98 Analyzed: 11/24/98 Reported: 12/06/98
Attention: Davryk Ataide		

QC Batch Number: GC111798BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	97
4-Bromofluorobenzene	60 140	63

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Renner
Project Manager





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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-15-20 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-18	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/19/98 Reported: 12/06/98
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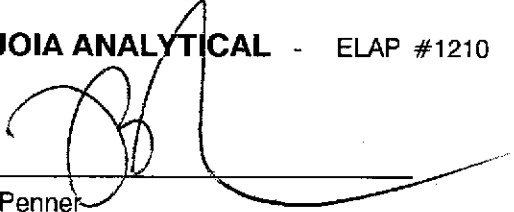
GC Batch Number: GC111798BTEXEXA
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	111
4-Bromofluorobenzene	60 140	88

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-15-19.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-19	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/16/98 Analyzed: 11/19/98 Reported: 12/06/98
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QC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP31

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102
4-Bromofluorobenzene	60 140	96

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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Cambria
1144 65th St. Suite C
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Client Proj. ID: Shell 1784 150th Ave
Sample Descript: SVS-15-5
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9811837-20

Sampled: 11/11/98
Received: 11/12/98
Extracted: 11/16/98
Analyzed: 11/19/98
Reported: 12/06/98

Attention: Davryk Ataide

GC Batch Number: GC111698BTEXEXD
Instrument ID: GCHP31

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	100
4-Bromofluorobenzene	60 140	88

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Cambria
1144 65th St. Suite C
Oakland, CA 94608

Client Proj. ID: Shell 1784 150th Ave
Sample Descript: SVS-16-5.5
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9811837-21

Sampled: 11/11/98
Received: 11/12/98
Extracted: 11/17/98
Analyzed: 11/19/98
Reported: 12/06/98

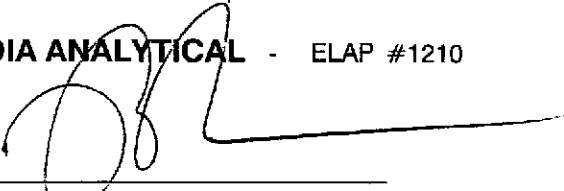
QC Batch Number: GC111798BTEXEXA
Instrument ID: GCHP31

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	99
4-Bromofluorobenzene	60 140	90

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

SEQUOIA ANALYTICAL - ELAP #1210


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Cambria
1144 65th St. Suite C
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Client Proj. ID: Shell 1784 150th Ave
Sample Descript: SVS-11-6
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9811837-22

Sampled: 11/10/98
Received: 11/12/98
Extracted: 11/17/98
Analyzed: 11/19/98
Reported: 12/06/98

Attention: Davryk Ataide

QC Batch Number: GC111798BTEXEXA
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	109
4-Bromofluorobenzene	60 140	87

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Davryk Ataide	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-11-15.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-23	Sampled: 11/10/98 Received: 11/12/98 Extracted: 11/17/98 Analyzed: 11/19/98 Reported: 12/06/98
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QC Batch Number: GC111798BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	75
4-Bromofluorobenzene	60 140	77

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

SEQUOIA ANALYTICAL - ELAP #1210


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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Client Proj. ID: Shell 1784 150th Ave
Sample Descript: SVS-11-5.5
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9811837-24

Sampled: 11/10/98
Received: 11/12/98
Extracted: 11/17/98
Analyzed: 11/19/98
Reported: 12/06/98

Attention: Davryk Ataide

QC Batch Number: GC111798BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	74
4-Bromofluorobenzene	60 140	79

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Davryk Ataide	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-11-10 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-25	Sampled: 11/10/98 Received: 11/12/98 Extracted: 11/17/98 Analyzed: 11/19/98 Reported: 12/06/98
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QC Batch Number: GC111798BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	76
4-Bromofluorobenzene	60 140	75

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-11-19 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811837-26	Sampled: 11/10/98 Received: 11/12/98 Extracted: 11/17/98 Analyzed: 11/19/98 Reported: 12/06/98
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QC Batch Number: GC111798BTEXEXA
Instrument ID: GCHP31

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

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

SEQUOIA ANALYTICAL - ELAP #1210

Reggy Penner
Project Manager





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Cambria
1144 65th St. Suite C
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Client Proj. ID: Shell 1784 150th Ave
Sample Descript: SVS-11-9.5
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9811837-27

Sampled: 11/10/98
Received: 11/12/98
Extracted: 11/17/98
Analyzed: 11/19/98
Reported: 12/06/98

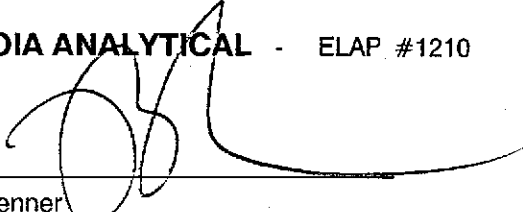
QC Batch Number: GC111798BTEXEXA
Instrument ID: GCHP31

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	101
4-Bromofluorobenzene	60 140	94

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Cambria
1144 65th St. Suite C
Oakland, CA 94608

Client Proj. ID: Shell 1784 150th Ave
Sample Descript: SVS-11-15
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9811837-28

Sampled: 11/10/98
Received: 11/12/98
Extracted: 11/17/98
Analyzed: 11/19/98
Reported: 12/06/98

Attention: Davryk Ataide

GC Batch Number: GC111798BTEXEXA
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	109
4-Bromofluorobenzene	60 140	87

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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Cambria
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Attention: Davryk Ataide

Client Proj. ID: Shell 1784 150th Ave
Lab Proj. ID: 9811837

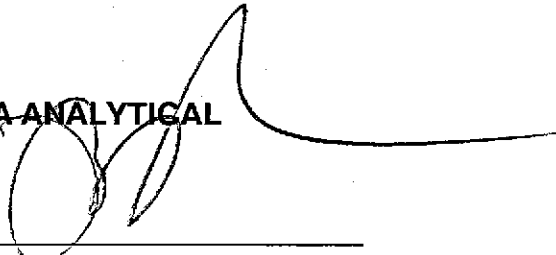
Received: 11/12/98
Reported: 12/06/98

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.).

Please note: The MTBE did not confirm by EPA 8260 therefore all MTBE results at this site should be considered suspect.

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager





Sequoia
Analytical

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Client Proj. ID: Shell 1784 150th Ave

Lab Proj. ID: 9811838

Sampled: 11/10/98

Received: 11/12/98

Analyzed: see below

Attention: Davryk Ataide

Reported: 12/06/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No:	9811838-29			
Sample Desc:	SOLID,SVS-11-19.5			
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/24/98	0.020	0.12
Moisture, Percent	%	11/16/98	1.0	19
Porosity	-			Attached

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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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Lab Proj. ID: 9811838	Sampled: 11/11/98 Received: 11/12/98 Analyzed: see below Reported: 12/06/98
Attention: Davryk Ataide		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9811838-30 Sample Desc: SOLID,SVS-15-4.5				
Bulk Density	-			Attached
Fraction Organic Carbon	%	11/24/98	0.020	0.91
Moisture, Percent		11/18/98	1.0	27
Porosity	-			Attached

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager






Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Davryk Ataide	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-11-19.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811838-29	Sampled: 11/10/98 Received: 11/12/98 Extracted: 11/13/98 Analyzed: 11/16/98 Reported: 12/06/98
GC Batch Number: GC111398BTEXEXA Instrument ID: GCHP7		

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	1.6
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	0.0050
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		C6-C12
Discrete Peaks		C8-C13
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

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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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Ave Sample Descript: SVS-15-4.5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9811838-30	Sampled: 11/11/98 Received: 11/12/98 Extracted: 11/13/98 Analyzed: 11/13/98 Reported: 12/06/98
---	--	--

QC Batch Number: GC111398BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	82
4-Bromofluorobenzene	60 140	75

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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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Davryk Ataide

Client Project ID: Shell 1784 150th Ave
Matrix: Solid

Work Order #: 9811837 -01-20

Reported: Dec 7, 1998

QUALITY CONTROL DATA REPORT

Analyte:	% Moisture
QC Batch:	IN111898160300A
Analy. Method:	EPA 160.3
Prep Method:	N.A.

Analyst: M. Vu

**Duplicate
Sample #:** 981183720

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

**Sample
Concentration:** 25

**Dup. Sample
Concentration:** 26

RPD: 3.9
RPD Limit: 0-20

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

** RPD=Relative % Difference

9811837.CCC <1>





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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Davryk Ataide

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

Work Order #: 9811837-01-10

Reported: Dec 7, 1998

QUALITY CONTROL DATA REPORT

Analyte: Fractional Organic
Carbon

QC Batch: IN111998WALK00A

Analy. Method: WALKLEY-BLACK

Prep Method: N.A.

Analyst: K. Cesar

**Duplicate
Sample #:** 981183701

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

**Sample
Concentration:** 0.096

**Dup. Sample
Concentration:** 0.099

RPD: 3.1
RPD Limit: 0-20

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager

** RPD = Relative % Difference

9811837.CCC <2>





Sequoia
Analytical

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Davryk Ataide

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

Work Order #: 9811837-11-20

Reported: Dec 7, 1998

QUALITY CONTROL DATA REPORT

Analyte: Fractional Organic
Carbon

QC Batch: IN111998WALK00A

Analy. Method: WALKLEY-BLACK

Prep Method: N.A.

Analyst: K. Cesar

**Duplicate
Sample #:** 981183711

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

**Sample
Concentration:** 0.10

**Dup. Sample
Concentration:** 0.10

RPD: 0.0
RPD Limit: 0-20

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager

** RPD = Relative % Difference

9811837.CCC <3>





Sequoia
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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Davryk Ataide

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

Work Order #: 9811837-21-28; 9811838-29, 30

Reported: Dec 7, 1998

QUALITY CONTROL DATA REPORT

Analyte: Fractional Organic
Carbon

QC Batch: IN112498WALK00A

Analy. Method: WALKLEY-BLACK

Prep Method: N.A.

Analyst: K. Cesar

**Duplicate
Sample #:** 981183726

Prepared Date: 11/24/98
Analyzed Date: 11/24/98
Instrument I.D.#: MANUAL

**Sample
Concentration:** 0.048

**Dup. Sample
Concentration:** 0.052

RPD: 8.0
RPD Limit: 0-20

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager

** RPD = Relative % Difference

9811837.CCC <4>





**Sequoia
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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Davryk Ataide

Client Project ID: Shell 1784 150th Ave
Matrix: Solid

Work Order #: 9811837-22-28; 9811838-29

Reported: Dec 7, 1998

QUALITY CONTROL DATA REPORT

Analyte: % Moisture

QC Batch: IN111698160300B

Analy. Method: EPA 160.3

Prep Method: N.A.

Analyst: M. Vu

**Duplicate
Sample #:** 981183829

Prepared Date: 11/16/98
Analyzed Date: 11/17/98
Instrument I.D.#: MANUAL

**Sample
Concentration:** 18

**Dup. Sample
Concentration:** 18

RPD: 0.0
RPD Limit: 0-20

SEQUOIA ANALYTICAL

Reggy Penner
Project Manager

** RPD=Relative % Difference

9811837.CCC <5>





**Sequoia
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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Davryk Ataide

Client Project ID: Shell 1784 150th Ave
Matrix: Solid

Work Order #: 9811837-08

Reported: Dec 7, 1998

QUALITY CONTROL DATA REPORT

Analyte: MTBE

QC Batch#: MS113098MTBEEEXA
Analy. Method: EPA 8260
Prep. Method: N.A.

Analyst: B. Pitamah
MS/MSD #: 9811G6701
Sample Conc.: N.D.
Prepared Date: 11/30/98
Analyzed Date: 11/30/98
Instrument I.D.#: H6
Conc. Spiked: 2500 µg/Kg

Result: 2100
MS % Recovery: 84

Dup. Result: 2200
MSD % Recov.: 88

RPD: 4.7
RPD Limit: 0-25

LCS #: LCS120398

Prepared Date: 12/3/98
Analyzed Date: 12/3/98
Instrument I.D.#: H6
Conc. Spiked: 2500 µg/Kg

LCS Result: 2300
LCS % Recov.: 92

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

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.

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9811837.CCC <6>





Sequoia
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Cambria
1144 65th St. Ste. C
Oakland, CA 94608
Attention: Darryk Ataide

Client Project ID: Shell 1784 150th St.

QC Sample Group: 9811837-01-16, -19-20

Reported: Dec 6, 1998

QUALITY CONTROL DATA REPORT

Matrix: Solid
Method: EPA 8020
Analyst: R.GE CKLER

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
---------	---------	---------	--------------	---------

QC Batch #: GC111698BTEXEXD

Sample No.: 9811837-4

	11/16/98	11/16/98	11/16/98	11/16/98
Date Prepared:	11/16/98	11/16/98	11/16/98	11/16/98
Date Analyzed:	11/16/98	11/16/98	11/16/98	11/16/98
Instrument I.D.#:	GCHP31	GCHP31	GCHP31	GCHP31

Sample Conc., mg/Kg:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, mg/Kg:	0.20	0.20	0.20	0.60
Matrix Spike, mg/Kg:	0.18	0.19	0.20	0.60
% Recovery:	90	95	100.0	100.0

Matrix				
Spiked Duplicate, mg/Kg:	0.18	0.19	0.20	0.60
% Recovery:	90	95	100.0	100.0

Relative % Difference:	0.0	0.0	0.0	0.0
------------------------	-----	-----	-----	-----

RPD Control Limits:	0-25	0-25	0-25	0-25
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LCS Batch#: GC111698BTEXEXD

	11/16/98	11/16/98	11/16/98	11/16/98
Date Prepared:	11/16/98	11/16/98	11/16/98	11/16/98
Date Analyzed:	11/16/98	11/16/98	11/16/98	11/16/98
Instrument I.D.#:	GCHP31	GCHP31	GCHP31	GCHP31

Conc. Spiked, mg/Kg:	0.20	0.20	0.20	0.60
Recovery, mg/Kg:	0.20	0.21	0.21	0.64
LCS % Recovery:	100.0	105	105	107

Percent Recovery Control Limits:

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

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

SEQUOIA ANALYTICAL

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.

Peggy Penner
Project Manager





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Cambria
1144 65th St. Ste. C
Oakland, CA 94608
Attention: Darryk Ataide

Client Project ID: Shell 1784 150th St.

QC Sample Group: 9811837-17-18, 21-228

Reported: Dec 6, 1998

QUALITY CONTROL DATA REPORT

Matrix: Solid
Method: EPA 8015
Analyst: N.H.

ANALYTE Gasoline

QC Batch #: GC111798BTEXEXA

Sample No.: 9811837-26

Date Prepared: 11/17/98

Date Analyzed: 11/17/98

Instrument I.D.#: GCHP07

Sample Conc., mg/Kg: N.D.

Conc. Spiked, mg/Kg: 5.0

Matrix Spike, mg/Kg: 4.9

% Recovery: 98

Matrix

Matrix Duplicate, mg/Kg: 4.4

% Recovery: 88

Relative % Difference: 11

RPD Control Limits: 0-25

LCS Batch#: GC111798BTEXEXA

Date Prepared: 11/17/98

Date Analyzed: 11/17/98

Instrument I.D.#: GCHP07

Conc. Spiked, mg/Kg: 5.0

Recovery, mg/Kg: 5.4

LCS % Recovery: 108

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

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

SEQUOIA ANALYTICAL

Peggy Fenner
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
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Cambria
1144 65th St. Ste. C
Oakland, CA 94608
Attention: Darryk Ataide

Client Project ID: Shell 1784 150th St.

QC Sample Group: 9811838-29-30

Reported: Dec 6, 1998

QUALITY CONTROL DATA REPORT

Matrix: Solid
Method: EPA 8015
Analyst: G.P.

ANALYTE Gasoline

QC Batch #: GC111398BTEXEXA

Sample No.: 9811809-1
Date Prepared: 11/13/98
Date Analyzed: 11/13/98
Instrument I.D.#: GCHP31

Sample Conc., mg/Kg: 3.5 mg/Kg
Conc. Spiked, mg/Kg: 5.0

Matrix Spike, mg/Kg: 7.1
% Recovery: 72

**Matrix
Spike Duplicate, mg/Kg:** 7.6
% Recovery: 82

Relative % Difference: 13

RPD Control Limits: 0-25

LCS Batch#: GC111398BTEXEXA

Date Prepared: 11/13/98
Date Analyzed: 11/13/98
Instrument I.D.#: GCHP31

Conc. Spiked, mg/Kg: 5.0

Recovery, mg/Kg: 4.8
LCS % Recovery: 96

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

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

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager





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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Davryk Ataide

Client Proj. ID: Shell 1784 150th Ave
Lab Proj. ID: 9811838

Received: 11/12/98
Reported: 12/06/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 60 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: _____

Date: 11/12/98

Page 1 of 4

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

WIC#: 204 6852 1404

Shell Engineer:

Karen Petryna

Phone No:

925 669 9935

Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL

1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact:

Darvyk Ahaide

Phone No.: 510

420-0700

Fax #: 420-9170

Comments:

Sampled by: TROY BUGGLE

Printed Name:

Analysis Required

LAB: Redwood City

CHECK ONE (1) BOX ONLY	C1/D1	TURN AROUND TIME
G.W. Monitoring	<input type="checkbox"/> 4461	24 hours <input type="checkbox"/>
Site Investigation	<input checked="" type="checkbox"/> 4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal	<input type="checkbox"/> 4442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal	<input type="checkbox"/> 4443	Other <input type="checkbox"/>
Soil/Air Reim. or Sys. O & M	<input type="checkbox"/> 4452	NOTE: Notify Lab as soon as possible of 24/48 hrs. LAT.
Water Reim. or Sys. O & M	<input type="checkbox"/> 4453	
Other	<input type="checkbox"/>	

UST AGENCY: 9811837/838

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/802)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & STEX 8020 + MTBE	Soil Properties (By Bulk Density, Moisture, Specific Gravity, Freshness, carbon)	MTBE 8260 *	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
SVS-14-19.5	2:15 11-11		X			2						X	X						N	Soil	* Confirm
SVS-14-15	2:30 11-11																				highest mtbe
SVS-14-10	2:10 11-11																				conc. w/
SVS-15-15.5	9:15 11-11-98																				8260
SVS-15-10	8:45 11-11-98																				
SVS-15-10.5	8:45 11-11-98																				
SVS-15-15	9:15 11-11-98																				
SVS-14-19	2:45 11-11-98																				

Relinquished By (signature):

Troy A. Buggle

Printed Name:

TROY BUGGLE

Date: 11/12/98

Time: 12:30

Received (signature):

[Signature]

Printed Name:

LANCE A. DAVIDSON

Date: 11-12-98

Time: 1:50

Relinquished By (signature):

[Signature]

Printed Name:

LANCE A. DAVIDSON

Date:

Time:

Received (signature):

[Signature]

Printed Name:

[Name]

Date: 11-12

Time: 1:16



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 11-12-98

Page 2 of 4

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

WIC#: 204 6852 1404

Shell Engineer: Karen Petryna
Phone No.: 925 669 9935
Fax #: _____

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact: David Ataide
Phone No.: 510 420-0700
Fax #: 420-9170

Comments: _____

Sampled by: TROY BUGGLE

Printed Name: _____

Analysis Required

TPH (EPA 8015 Mod. GCS)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 + MTBE	Soil Properties (Permeability, Reaction, etc.)	MTBE 8260	Asbestos	Container Size	Preparation Used	Composite Y/N
					X	X					X

LAB: Redwood City

CHECK ONE (1) BOX ONLY	C/D/I	TURN AROUND TIME
G.W. Monitoring	<input type="checkbox"/> 4441	24 hours <input type="checkbox"/>
Site Investigation	<input checked="" type="checkbox"/> 4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal	<input type="checkbox"/> 4442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal	<input type="checkbox"/> 4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M	<input type="checkbox"/> 4452	
Water Rem. or Sys. O & M	<input type="checkbox"/> 4453	
Other	<input type="checkbox"/>	

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

UST AGENCY: 9811837/838

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SVS-14-5.5	1:40 11-11-98		X			2	Soil	* confirm highest for MTBE conc. w/ 8260
SVS-16-10.5	10:55 11-11-98							
SVS-16-15	11:15 11-11-98							
SVS-16-10	10:55 11-11-98							
SVS-14-10.5	2:10 11-11-98							
SVS-14-15.5	2:30 11-11-98							
SVS-16-15.5	11:15 11-11-98							
SVS-14-.5	1:40 11-11-98							

Relinquished By (signature): Troy Buggle	Printed Name: TROY BUGGLE	Date: 11-12-98 Time: 12:30	Received (signature): [Signature]	Printed Name: LANCE DAVIDSON	Date: 11-12-98 Time: 1:50
Relinquished By (signature): [Signature]	Printed Name: LANCE A. DAVIDSON	Date: 11-12-98 Time: _____	Received (signature): [Signature]	Printed Name: _____	Date: _____ Time: _____
Relinquished By (signature): [Signature]	Printed Name: _____	Date: _____ Time: _____	Received (signature): [Signature]	Printed Name: _____	Date: 11-12-98 Time: 1:16

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



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 11-12-98

Page 3 of 4

Silo Address: 1784 150th Av., San Leandro, CA

WIC#: 204 6852 1404

Shell Engineer: Karen Petryna
Phone No.: 425-669-9135
Fax #: _____

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide
Phone No.: 510-420-0700
Fax #: 420-9170

Comments: _____

Sampled by: TROY BUGGLE

Printed Name: _____

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTX 8020 + MTBE	Soil Properties (Permeability, Fracture Cracks, Dry Bulk Dens., Moist. Cont., Carbon)	MTBE 8260 *	Asbestos	Container Size	Preparation Used	Composite Y/N
					X	X					N

LAB: Redwood City

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

UST AGENCY: 9811837/838

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTX 8020 + MTBE	Soil Properties (Permeability, Fracture Cracks, Dry Bulk Dens., Moist. Cont., Carbon)	MTBE 8260 *	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
SVS-16-5	11-11-98 10:40		X			2						X	X						N	Soil	* Confirm
SVS-15-20	11-11-98 9:35																				highest MTBE
SVS 15-19.5	9:35 11-11-98																				conc. w/ 8260
SVS-15-5	8:30 11-11-98																				
SVS-16-5.5	10:40 11-11-98																				
SVS-11-6	9:10 11-10-98																				
SVS-11-15.5	11:05 11-10-98																				
SVS-11-5.5	9:10 11-10-98																				

Relinquished By (signature): *Troy Buggle*
Relinquished By (signature): *[Signature]*
Relinquished By (signature): _____

Printed Name: TROY BUGGLE
Printed Name: LANCE S. DAVIDSON
Printed Name: _____

Date: 11-29-98
Time: 12:30
Date: 11-29-98
Time: _____
Date: _____
Time: _____

Received (signature): *[Signature]*
Received (signature): _____
Received (signature): *[Signature]*

Printed Name: LANCE DAVIDSON
Printed Name: _____
Printed Name: _____

Date: 11-12-98
Time: 16:50
Date: _____
Time: _____
Date: 11-12
Time: 1:16

17
18
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24



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Date: 11/02/98

Page 4 of 4

Site Address: 1784 150th Av, San Leandro, CA

WIC#: 204 6852 1404

Shell Engineer: Karen Petryna
Phone No: 925 669 9935
Fax #: [blank]

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide
Phone No: 510 420-0700
Fax #: 420-9170

Comments:

Sampled by: TROY BUGGLE

Printed Name:

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/502)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 + MTBE	Soil Preparation (Dry Bulk Dens, Moisture, Porosity, Fracture, etc. Carbon)	MTBE 8260 *	Asbestos	Container Size	Preparation Used	Composite Y/N
					X	X					N

LAB: Redwood City

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring	<input type="checkbox"/> 4441	24 hours <input type="checkbox"/>
Site Investigation	<input checked="" type="checkbox"/> 4442	48 hours <input type="checkbox"/>
Soil Classify/Disposal	<input type="checkbox"/> 4442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal	<input type="checkbox"/> 4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M	<input type="checkbox"/> 4452	
Water Rem. or Sys. O & M	<input type="checkbox"/> 4453	
Other	<input type="checkbox"/>	

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

UST AGENCY: 9811837/838

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/502)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 + MTBE	Soil Preparation (Dry Bulk Dens, Moisture, Porosity, Fracture, etc. Carbon)	MTBE 8260 *	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
SUS-11-10	9:45 11-10-98		X			2						X	X						N	Soil	* Confirm highest 25
SUS-11-19	11:45 11-10-98																				MTBE Conc. 26
SUS-11-9.5	12:30 11-10-98																				w/ 8260 27
SUS-11-15	11:05 11-10-98																				28
SUS-11-19.5	11:45 11-10-98																				29
SUS-15-4.5	8:30 11-11-98																				30

Relinquished By (signature): Troy Buggle	Printed Name: TROY BUGGLE	Date: 11-12-98 Time: 12:30	Received (signature): LANCE A. DAVIDSON	Printed Name: LANCE A. DAVIDSON	Date: 11-12-98 Time: 1650
Relinquished By (signature): Lance Davidson	Printed Name: LANCE A. DAVIDSON	Date: 11-12-98 Time:	Received (signature): W.D. Jones	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: 11-12 Time: 1816

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



CORE LABORATORIES

Ms P. Penner
Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063

December 3, 1998

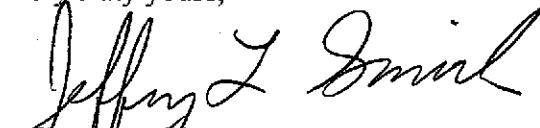
Subject : Transmittal of Geotechnical Analysis Data
SA Work order # 9811837/838
Core Lab File No. 57111-98307

Dear Ms Penner:

Soil samples were submitted to our Bakersfield laboratory for geotechnical analysis. Determinations of bulk density and total porosity were requested. Grain and pore volumes were determined by Boyles Law double-cell methods utilizing an extended range helium porosimeter. The bulk densities and total porosity measurements and calculations were performed as described in API RP-40, API Recommended Practice for Core-Analysis Procedure, 1960. Accompanying this letter please find the results of this study.

We appreciate this opportunity to be of service to you and to Sequoia Analytical. Should you have any questions, or if we may be of further help in the future, please do not hesitate to contact us.

Very truly yours,


Jeffrey L. Smith
Laboratory Supervisor - Rock Properties

JLS:nw

1 original report, 1 cc report: Addressee



Sequoia Analytical
 (Redwood City)
 Cambria
 9811837/838

C.L. File: 57111-98307

Sample Fraction	Sample Desc.	Sample Date	Sample Density			Total Porosity %	Description
			Dry Bulk g/cc	Natural Bulk g/cc	Matrix g/cc		
01	SVS-14-19.5	11-Nov-98	1.75	2.11	2.73	35.9	Gray clayey silt w/ vfgr sand
02	SVS-14-15.0	11-Nov-98	1.76	2.09	2.62	32.7	Gray silty clay w/vfgr sand
03	SVS-14-10.0	11-Nov-98	1.78	2.10	2.61	31.9	Gray silty clay w/vf-cgr sand
04	SVS-15-15.5	11-Nov-98	2.01	2.24	2.73	26.5	Gray v silty v clayey vf-vcgr sand
05	SVS-15-10.0	11-Nov-98	1.77	2.09	2.60	32.0	Gray silty clay w/vfgr sand
06	SVS-15-10.5	11-Nov-98	1.81	2.11	2.60	30.3	Gray silty clay w/vfgr sand
07	SVS-15-15.0	11-Nov-98	1.94	2.21	2.68	27.7	Gray silty clayey vf-vcgr sand w/pbls
08	SVS-14-19.0	11-Nov-98	1.67	2.01	2.56	34.8	Gray v silty clayey vf-fgr sand
09	SVS-14- 5.5	11-Nov-98	1.48	1.84	2.31	36.2	Gray silty clay w/vfgr sand
10	SVS-16-10.5	11-Nov-98	1.88	2.14	2.55	26.1	Gray v clayey vf-vcgr sandy silt
11	SVS-16-15.0	11-Nov-98	1.84	2.13	2.59	29.0	Gray v clayey vf-vcgr sandy silt
12	SVS-16-10.0	11-Nov-98	1.86	2.14	2.57	27.5	Gray v clayey vf-vcgr sandy silt
13	SVS-14-10.5	11-Nov-98	1.95	2.21	2.66	26.8	Gray v clayey vf-vcgr sandy silt
14	SVS-14-15.5	11-Nov-98	1.81	2.10	2.56	29.3	Gray v clayey vf-vcgr sandy silt
15	SVS-16-15.5	11-Nov-98	1.84	2.12	2.54	27.5	Gray v clayey vf-vcgr sandy silt
16	SVS-14- 5.0	11-Nov-98	1.59	1.88	2.22	28.3	Gray silty clay w/vf-cgr sand
17	SVS-16- 5.0	11-Nov-98	1.62	1.92	2.31	29.6	Gray silty clay w/vf-gran sand
18	SVS-15-20.0	11-Nov-98	1.69	2.04	2.60	35.1	Gray v clayey vf-cgr sandy silt
19	SVS-15-19.5	11-Nov-98	1.82	2.11	2.58	29.5	Gray silty clay w/vf-cgr sand
20	SVS-15- 5.0	11-Nov-98	1.52	1.84	2.23	31.9	Gray silty clay w/vfgr sand
21	SVS-16- 5.5	11-Nov-98	1.61	1.91	2.30	29.7	Gray silty clay w/vfgr sand
22	SVS-11- 5.0	10-Nov-98	1.60	1.88	2.23	28.4	Gray silty clay w/vfgr sand
23	SVS-11-15.5	10-Nov-98	1.84	2.10	2.50	26.6	Gray silty clay w/vfgr sand
24	SVS-11- 5.5	10-Nov-98	1.83	2.10	2.50	27.1	Gray silty clay w/vf-cgr sand
25	SVS-11-10.0	10-Nov-98	1.52	1.85	2.27	33.2	Gray silty clay w/vfgr sand
26	SVS-11-19.0	10-Nov-98	1.79	2.08	2.53	29.4	Gray silty clay w/vf-fgr sand
27	SVS-11- 9.5	10-Nov-98	1.56	1.88	2.30	31.9	Gray silty clay w/vf-cgr sand
28	SVS-11-15.0	10-Nov-98	1.60	1.91	2.32	31.0	Gray silty clay w/vf-cgr sand
29	SVS-11-19.5	10-Nov-98	1.78	2.09	2.57	30.7	Gray silty clay w/vf-fgr sand
30	SVS-15- 4.5	11-Nov-98	1.45	1.81	2.25	35.7	Gray silty clay w/vfgr sand

All measurements and calculations performed as per API RP-40

ATTACHMENT C

Analytical Report for Grab Water Samples



Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: D. Ataide

Project: Shell 1784 150th

Enclosed are the results from samples received at Sequoia Analytical on November 12, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9811820 -01	LIQUID, SVS-11-W1	11/10/98	Purgeable TPH/BTEX/MTBE
9811820 -02	LIQUID, SVS-12-W1	11/11/98	Purgeable TPH/BTEX/MTBE
9811820 -03	LIQUID, SVS-14-W1	11/11/98	Purgeable TPH/BTEX/MTBE
9811820 -04	LIQUID, SVS-15-W1	11/11/98	Purgeable TPH/BTEX/MTBE
9811820 -05	LIQUID, SVS-16-W1	11/11/98	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





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 1784 150th Sample Descript: SVS-11-W1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811820-01	Sampled: 11/10/98 Received: 11/12/98 Analyzed: 11/18/98 Reported: 11/21/98
---	--	---

Purgeable Total Petroleum Hydrocarbons as Gasoline/BTEX/MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	130000
Methyl t-Butyl Ether	250	1500
Benzene	50	18000
Toluene	50	1800
Ethyl Benzene	50	5700
Xylenes (Total)	50	31000
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





Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd, North, Ste. D

Redwood City, CA 94063
Walnut Creek, CA 94598
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Petaluma, CA 94954

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(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: D. Ataide	Client Proj. ID: Shell 1784 150th Sample Descript: SVS-12-W1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811820-02	Sampled: 11/11/98 Received: 11/12/98 Analyzed: 11/18/98 Reported: 11/21/98
---	--	---

Purgeable Total Petroleum Hydrocarbons as Gasoline/BTEX/MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	64000
Methyl t-Butyl Ether	250	N.D.
Benzene	50	1800
Toluene	50	770
Ethyl Benzene	50	2700
Xylenes (Total)	50	17000
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
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(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: D. Ataide	Client Proj. ID: Shell 1784 150th Sample Descript: SVS-14-W1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811820-03	Sampled: 11/11/98 Received: 11/12/98 Analyzed: 11/18/98 Reported: 11/21/98
---	---	---

Purgeable Total Petroleum Hydrocarbons as Gasoline/BTEX/MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	108

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

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Fenner
Project Manager





Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

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(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Cambria
1144 65th St. Suite C
Oakland, CA 94608

Attention: D. Ataide

Client Proj. ID: Shell 1784 150th
Sample Descript: ~~SVS-15-W1~~
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9811820-04

Sampled: 11/11/98
Received: 11/12/98

Analyzed: 11/18/98
Reported: 11/21/98

Purgeable Total Petroleum Hydrocarbons as Gasoline/BTEX/MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	0.80
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite B
1455 McDowell Blvd. North, Ste. D

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(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

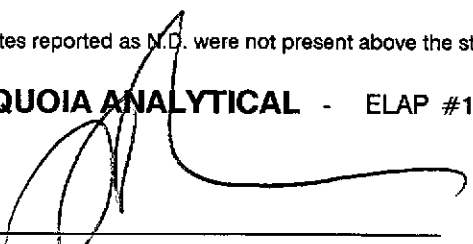
Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: D. Ataide	Client Proj. ID: Shell 1784 150th Sample Descript: SVS-16-W1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9811820-05	Sampled: 11/11/98 Received: 11/12/98 Analyzed: 11/18/98 Reported: 11/21/98
---	---	---

Purgeable Total Petroleum Hydrocarbons as Gasoline/BTEX/MTBE

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

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Sequoia
Analytical

680 Chesapeake Drive
404 N. Wlget Lane
819 Striker Avenue, Suite 8
1455 McDowell Blvd. North, Ste. D

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Walnut Creek, CA 94598
Sacramento, CA 95834
Petaluma, CA 94954

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(707) 792-1865

FAX (650) 364-9233
FAX (925) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: D. Ataide

Client Project ID: Shell 1784 150th
Matrix: Liquid

Work Order #: 9811820 -01-05

Reported: Dec 1, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	8110310	8110310	8110310	8110310
Analy. Method:	EPA 8015M/8020M	EPA 8015M/8020M	EPA 8015M/8020M	EPA 8015M/8020M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	-	-	-	-
MS/MSD #:	P811193-10	P811193-10	P811193-10	P811193-10
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	11/18/98	11/18/98	11/18/98	11/18/98
Analyzed Date:	11/18/98	11/18/98	11/18/98	11/18/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	100 µg/L	100 µg/L	100 µg/L	300 µg/L
Result:	118	108	105	320
MS % Recovery:	113	107	105	106
Dup. Result:	105	96.5	94.2	283
MSD % Recov.:	99.8	95.8	94.2	94
RPD:	11.7	11.2	10.8	12.3
RPD Limit:	0-5	0-6	0-4	0-5

LCS #:	LCS111898	LCS111898	LCS111898	LCS111898
Prepared Date:	11/18/98	11/18/98	11/18/98	11/18/98
Analyzed Date:	11/18/98	11/18/98	11/18/98	11/18/98
Instrument I.D.#:	-	-	-	-
Conc. Spiked:	100 µg/L	100 µg/L	100 µg/L	300 µg/L
LCS Result:	110	103	101	310
LCS % Recov.:	110	103	101	103

MS/MSD	82-119	80-117	66-125	73-119
LCS	84-116	81-117	79-115	80-114
Control Limits				

SEQUOIA ANALYTICAL
Eiap #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

9811820.CCC <1>





Sequoia
Analytical

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(707) 792-1865

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

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: D. Ataide

Client Proj. ID: Shell 1784 150th

Received: 11/12/98

Lab Proj. ID: 9811820

Reported: 11/21/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 8 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Eggy Penner
Project Manager





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 11/10/98

Page 1 of 1

Silo Address: 1784 150th, San Leandro

WIC#: 204 - 6852 - 1404

Shell Engineer: Karen Petryna
~~TIM HARGRAVES~~

Phone No.: 925
335-5031
Fax #: 335-5016

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1111 65th St. Suite C, Oakland, CA 94608

Consultant Contact:
D. Andrade

Phone No.: 510
420-0700
Fax #: 420-9170

Comments: 9811820

Sampled by: *[Signature]*

Printed Name: MIKE PAVES / TROY BUGGLE

Analyses Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8060/602)	Vehicle Organics (EPA 8210)	Test for Disposal	Combination TPH 8015 & STEX 8060 & MTBE	Asbestos	Container Size	Preparation Used	Composite Y/N

LAB: GEQUOIA

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

UST AGENCY: ~~ALAMEDA~~ ALAMEDA COUNTY

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8060/602)	Vehicle Organics (EPA 8210)	Test for Disposal	Combination TPH 8015 & STEX 8060 & MTBE	Asbestos	Container Size	Preparation Used	Composite Y/N
SVS-11-W1	11/10/98			X		4						X		40ml	ALL	N
SVS-12-W1	11/11/98			X		1						X				N
SVS-14-W1	11/11/98			X		1						X				N
SVS-15-W1	11/11/98			X		1						X				N
SVS-16-W1	11/11/98			X		1						X				N

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
01	
02	
03	
04	
05	

Relinquished by (signature): *[Signature]*
Date: 11/11/98

Printed Name: LANCE A. DAVISON

Date: 11-12-98
Time: 16:50

Received (signature): *[Signature]*
Date: 11-12-98
Time: _____

Printed Name: LANCE A. DAVISON
Date: 11/12/98
Time: 18:16

Date: 11-12-98
Time: 16:50

ATTACHMENT D

Analytical Report for Soil Vapor Samples

@AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 9811249A

Work Order Summary

CLIENT: Mr. Darryk Ataide
Cambria Environmental Technology
1144 65th Street, Suite B
Oakland, CA 94608

BILL TO: Same

PHONE: 510-420-0700
FAX: 510-420-9170
DATE RECEIVED: 11/13/98
DATE COMPLETED: 12/9/98

P.O. # 240-0612-004
PROJECT # 240-0612 1784 150th Av. SNL

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	SVS-13-15	Mod. CARB 410A	4.0 "Hg
02A	SVS-13-20	Mod. CARB 410A	3.0 "Hg
03A	SVS-14-5	Mod. CARB 410A	4.5 "Hg
04A	SVS-14-10	Mod. CARB 410A	4.0 "Hg
05A	SVS-14-15	Mod. CARB 410A	4.0 "Hg
05AA	SVS-14-15 Duplicate	Mod. CARB 410A	4.0 "Hg
06A	SVS-15-5	Mod. CARB 410A	4.0 "Hg
07A	SVS-15-10	Mod. CARB 410A	3.0 "Hg
08A	SVS-15-15	Mod. CARB 410A	5.5 "Hg
09A	SVS-15-20	Mod. CARB 410A	4.0 "Hg
10A	SVS-16-5	Mod. CARB 410A	3.0 "Hg
11A	Method Spike	Mod. CARB 410A	NA
12A	Lab Blank	Mod. CARB 410A	NA
12B	Lab Blank	Mod. CARB 410A	NA

LAB NARRATIVE:

Compounds detected between the detection limit and the low point on the curve are "J" flagged.

CERTIFIED BY:


Laboratory Director

DATE:

12/10/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

AIR TOXICS LTD.

SAMPLE NAME : SVS-13-15

ID#: 9811249A-01A

Modified CARB 410A GC/PID/FID

File Name:	6112424	Date of Collection:	11/10/98
Dil. Factor:	3.38	Date of Analysis:	11/24/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0034	0.011	0.0036 J	0.012 J
Toluene	0.0034	0.013	0.011 J	0.042 J
Ethyl Benzene	0.0034	0.015	Not Detected	Not Detected
Total Xylenes	0.0034	0.015	0.0042 J	0.019 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.034	0.14	1.4	5.9
C2-C4 Hydrocarbons ref. to Gasoline	0.034	0.062	0.090 J	0.16 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	98	50-150
Fluorobenzene (FID)	107	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-13-20

ID#: 9811249A-02A

Modified CARB 410A GC/PID/FID

File Name:	6112425	Date of Collection:	11/10/98
Dil. Factor:	3.25	Date of Analysis:	11/25/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0033	0.011	Not Detected	Not Detected
Toluene	0.0033	0.012	Not Detected	Not Detected
Ethyl Benzene	0.0033	0.014	Not Detected	Not Detected
Total Xylenes	0.0033	0.014	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.033	0.14	1.6	6.7
C2-C4 Hydrocarbons ref. to Gasoline	0.033	0.059	0.033 J	0.060 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	99	50-150
Fluorobenzene (FID)	106	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-14-5

ID#: 9811249A-03A

Modified CARB 410A GC/PID/FID

File Name:	6112426	Date of Collection:	11/11/98
Dil. Factor:	3.48	Date of Analysis:	11/25/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0035	0.011	Not Detected	Not Detected
Toluene	0.0035	0.013	0.0081 J	0.031 J
Ethyl Benzene	0.0035	0.015	0.0036 J	0.016 J
Total Xylenes	0.0035	0.015	0.0064 J	0.028 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.035	0.14	1.9	7.8
C2-C4 Hydrocarbons ref. to Gasoline	0.035	0.064	0.043 J	0.079 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	98	50-150
Fluorobenzene (FID)	108	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-14-10

ID#: 9811249A-04A

Modified CARB 410A GC/PID/FID

File Name:	6112427	Date of Collection:	11/11/98
Dil. Factor:	5.22	Date of Analysis:	11/25/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0052	0.017	0.0077 J	0.025 J
Toluene	0.0052	0.020	0.035	0.13
Ethyl Benzene	0.0052	0.023	0.0084 J	0.037 J
Total Xylenes	0.0052	0.023	0.037 J	0.16 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.052	0.22	2.7	11
C2-C4 Hydrocarbons ref. to Gasoline	0.052	0.095	0.056 J	0.10 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	98	50-150
Fluorobenzene (FID)	109	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-14-15

ID#: 9811249A-05A

Modified CARB 410A GC/PID/FID

File Name:	6112311b	Date of Collection:	11/11/98
Dil. Factor:	2.33	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0023	0.0076	Not Detected	Not Detected
Toluene	0.0023	0.0089	0.0086 J	0.033 J
Ethyl Benzene	0.0023	0.010	Not Detected	Not Detected
Total Xylenes	0.0023	0.010	0.0024 J	0.010 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.023	0.097	2.1 B	8.7 B
C2-C4 Hydrocarbons ref. to Gasoline	0.023	0.043	0.070 J	0.13 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	61	50-150
Fluorobenzene (FID)	105	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-14-15 Duplicate

ID#: 9811249A-05AA

Modified CARB 410A GC/PID/FID

File Name:	6112433	Date of Collection:	11/11/98
Dil. Factor:	2.33	Date of Analysis:	11/25/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0023	0.0076	Not Detected	Not Detected
Toluene	0.0023	0.0089	0.0069 J	0.026 J
Ethyl Benzene	0.0023	0.010	Not Detected	Not Detected
Total Xylenes	0.0023	0.010	0.0018 J	0.0081 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.023	0.097	1.9	8.0
C2-C4 Hydrocarbons ref. to Gasoline	0.023	0.043	0.061 J	0.11 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	68	50-150
Fluorobenzene (FID)	108	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-15-5

ID#: 9811249A-06A

Modified CARB 410A GC/PID/FID

File Name:	6112428	Date of Collection:	11/11/98
Dil. Factor:	3.38	Date of Analysis:	11/25/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0034	0.011	Not Detected	Not Detected
Toluene	0.0034	0.013	0.0069 J	0.026 J
Ethyl Benzene	0.0034	0.015	Not Detected	Not Detected
Total Xylenes	0.0034	0.015	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.034	0.14	0.70	2.9
C2-C4 Hydrocarbons ref. to Gasoline	0.034	0.062	0.034 J	0.062 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	98	50-150
Fluorobenzene (FID)	106	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-15-10

ID#: 9811249A-07A

Modified CARB 410A GC/PID/FID

File Name:	6112429	Date of Collection:	11/11/98
Dil. Factor:	4.52	Date of Analysis:	11/25/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0045	0.015	0.0056 J	0.018 J
Toluene	0.0045	0.017	0.016 J	0.061 J
Ethyl Benzene	0.0045	0.020	Not Detected	Not Detected
Total Xylenes	0.0045	0.020	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.045	0.19	1.2	4.8
C2-C4 Hydrocarbons ref. to Gasoline	0.045	0.083	0.17 J	0.31 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	99	50-150
Fluorobenzene (FID)	108	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-15-15

ID#: 9811249A-08A

Modified CARB 410A GC/PID/FID

File Name:	6112430	Date of Collection:	11/11/98
Dil. Factor:	4.50	Date of Analysis:	11/25/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0045	0.015	Not Detected	Not Detected
Toluene	0.0045	0.017	0.010 J	0.038 J
Ethyl Benzene	0.0045	0.020	Not Detected	Not Detected
Total Xylenes	0.0045	0.020	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.045	0.19	1.1	4.5
C2-C4 Hydrocarbons ref. to Gasoline	0.045	0.082	Not Detected	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	100	50-150
Fluorobenzene (FID)	109	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-15-20

ID#: 9811249A-09A

Modified CARB 410A GC/PID/FID

File Name:	6112431	Date of Collection:	11/11/98
Dil. Factor:	3.48	Date of Analysis:	11/25/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0035	0.011	Not Detected	Not Detected
Toluene	0.0035	0.013	0.018	0.071
Ethyl Benzene	0.0035	0.015	Not Detected	Not Detected
Total Xylenes	0.0035	0.015	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.035	0.14	1.4	5.6
C2-C4 Hydrocarbons ref. to Gasoline	0.035	0.064	0.038 J	0.070 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	100	50-150
Fluorobenzene (FID)	108	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-16-5

ID#: 9811249A-10A

Modified CARB 410A GC/PID/FID

File Name:	6112432	Date of Collection:	11/11/98
Dil. Factor:	3.34	Date of Analysis:	11/25/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0033	0.011	0.0099 J	0.032 J
Toluene	0.0033	0.013	0.039	0.15
Ethyl Benzene	0.0033	0.015	Not Detected	Not Detected
Total Xylenes	0.0033	0.015	0.0041 J	0.018 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.033	0.14	1.3	5.4
C2-C4 Hydrocarbons ref. to Gasoline	0.033	0.061	0.075 J	0.14 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	100	50-150
Fluorobenzene (FID)	109	50-150

AIR TOXICS LTD.

SAMPLE NAME : Method Spike

ID#: 9811249A-11A

Modified CARB 410A GC/PID/FID

File Name:	6112401	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/24/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	% Recovery
Benzene	0.0010	0.0032	96
Toluene	0.0010	0.0038	98
Ethyl Benzene	0.0010	0.0044	95
Total Xylenes	0.0010	0.0044	94
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.010	0.042	95
C2-C4 Hydrocarbons ref. to Gasoline	0.010	0.018	95

Container Type: NA

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	94	50-150
Fluorobenzene (FID)	120	50-150

AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811249A-12A

Modified CARB 410A GC/PID/FID

File Name:	6112310	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	Not Detected	Not Detected
Ethyl Benzene	0.0010	0.0044	Not Detected	Not Detected
Total Xylenes	0.0010	0.0044	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.010	0.042	0.017 J	0.071 J
C2-C4 Hydrocarbons ref. to Gasoline	0.010	0.018	Not Detected	Not Detected

J = Estimated value.

Container Type: NA

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	96	50-150
Fluorobenzene (FID)	106	50-150

AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811249A-12B

Modified CARB 410A GC/PID/FID

File Name:	6112423	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/24/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	Not Detected	Not Detected
Ethyl Benzene	0.0010	0.0044	Not Detected	Not Detected
Total Xylenes	0.0010	0.0044	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.010	0.042	Not Detected	Not Detected
C2-C4 Hydrocarbons ref. to Gasoline	0.010	0.018	Not Detected	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	101	50-150
Fluorobenzene (FID)	108	50-150



AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

CHAIN-OF-CUSTODY RECORD

No 017707

Page 1 of 3

Contact Person <u>Darryk Almeida</u> Company <u>Cambria Env. Tech, Inc.</u> Address <u>1144 65th St, Suite B</u> City <u>Oakland</u> State <u>CA</u> Zip <u>94608</u> Phone <u>510 420 0700</u> FAX <u>510 420 9170</u> Collected By: Signature <u>[Signature]</u>	Project info: P.O. # _____ Project # <u>240-0612</u> Project Name <u>1784 150th Ave</u> <u>SNC</u>	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush _____ Specify _____
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Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum		
				Initial $\frac{1}{2}$	Final $\frac{1}{2}$	Receipt
✓ 01A	SVS-13-15	11-10-98 3:20	Method TO3 (TPHG, BTEX)	28.5"	5"	4.0" H ₂
✓ 022	SVS-13-20	11-10-98 3:35	↓	28"	3.5"	3.0" H ₂
✓ 031	SVS-14-5	11-11-98 1:35		28"	4.5"	4.5" H ₂
✓ 042	SVS-14-10	11-11-98 1:45		28"	4.5"	4.0" H ₂
✓ 052	SVS-14-15	11-11-98 2:15		28"	5"	4.0" H ₂
✓ 062	SVS-15-5	11-11-98 8:25a		28"	4.5"	4.0" H ₂
✓ 072	SVS-15-10	11-11-98 8:40a		28"	4"	3.0" H ₂
✓ 082	SVS-15-15	11-11-98 9:10a		28"	4.5"	5.5" H ₂
✓ 092	SVS-15-20	11-11-98 9:30a		28"	4.5"	4.0" H ₂
✓ 102	SVS-16-5	11-11-98 10:35		28"	4"	3.0" H ₂

Relinquished By: (Signature) <u>[Signature]</u> Date/Time <u>11/2/98</u>	Print Name <u>TROY A. BUEGEL</u>
Relinquished By: (Signature) _____ Date/Time _____	Received By: (Signature) <u>[Signature]</u> Date/Time <u>11/3/98</u>
Relinquished By: (Signature) _____ Date/Time _____	Received By: (Signature) <u>[Signature]</u> Date/Time <u>9/10/01</u>

Notes: Σ
11/16/98

Lab Use Only	Shipper Name <u>Fed Ex</u>	Air Bill # <u>807 453304173</u>	Opened By: <u>[Signature]</u>	Date/Time <u>11/3/98</u> <u>9:15</u>	Temp. (°C) <u>-</u>	Condition <u>Good</u>	Custody Seals Intact? Yes No <u>None</u> N/A	Work Order # <u>9811249</u>
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@AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 9811249B

Work Order Summary

CLIENT: Mr. Darryk Ataide
Cambria Environmental Technology
1144 65th Street, Suite B
Oakland, CA 94608

BILL TO: Same

PHONE: 510-420-0700
FAX: 510-420-9170
DATE RECEIVED: 11/13/98
DATE COMPLETED: 12/11/98


P.O. # 240-0612-004
PROJECT # 240-0612 1784 150th Av. SNL

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>
11A	SVS-11-5	Mod. CARB 410A	3.5 "Hg
12A	SVS-11-10	Mod. CARB 410A	4.0 "Hg
13A	SVS-11-15	Mod. CARB 410A	4.0 "Hg
14A	SVS-12-5	Mod. CARB 410A	4.0 "Hg
15A	SVS-12-10	Mod. CARB 410A	5.0 "Hg
16A	SVS-12-15	Mod. CARB 410A	5.5 "Hg
17A	SVS-12-20	Mod. CARB 410A	5.5 "Hg
18A	SVS-13-5	Mod. CARB 410A	5.0 "Hg
19A	SVS-13-10	Mod. CARB 410A	4.0 "Hg
20A	SVS-16-10	Mod. CARB 410A	4.0 "Hg
20AA	SVS-16-10 Duplicate	Mod. CARB 410A	4.0 "Hg
21A	SVS-16-15	Mod. CARB 410A	3.5 "Hg
22A	Lab Blank	Mod. CARB 410A	NA
22B	Lab Blank	Mod. CARB 410A	NA
23A	Method Spike	Mod. CARB 410A	NA

LAB NARRATIVE:

Compounds detected between the detection limit and the low point on the curve are "J" flagged.

CERTIFIED BY:


Laboratory Director

DATE:

12/11/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

AIR TOXICS LTD.

SAMPLE NAME : SVS-11-5

ID#: 9811249B-11A

Modified CARB 410A GC/PID/FID

File Name:	6111928	Date of Collection:	11/10/98
Dil. Factor:	2.86	Date of Analysis:	11/19/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0029	0.0093	Not Detected	Not Detected
Toluene	0.0029	0.011	0.029	0.11
Ethyl Benzene	0.0029	0.013	Not Detected	Not Detected
Total Xylenes	0.0029	0.013	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.029	0.12	1.0 B	4.2 B
C2-C4 Hydrocarbons ref. to Gasoline	0.029	0.052	0.10 J	0.18 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	95	50-150
Fluorobenzene (FID)	96	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-11-10

ID#: 9811249B-12A

Modified CARB 410A GC/PID/FID

File Name:	6111932	Date of Collection:	11/10/98
Dil. Factor:	2.33	Date of Analysis:	11/19/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0023	0.0076	0.0025 J	0.0080 J
Toluene	0.0023	0.0089	0.065	0.25
Ethyl Benzene	0.0023	0.010	Not Detected	Not Detected
Total Xylenes	0.0023	0.010	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.023	0.097	0.67 B	2.8 B
C2-C4 Hydrocarbons ref. to Gasoline	0.023	0.043	0.029 J	0.053 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	91	50-150
Fluorobenzene (FID)	89	50-150

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SAMPLE NAME : SVS-11-15

ID#: 9811249B-13A

Modified CARB 410A GC/PID/FID

File Name:	6112312	Date of Collection:	11/10/98
Dil. Factor:	2.33	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0023	0.0076	0.0060 J	0.019 J
Toluene	0.0023	0.0089	0.012	0.045
Ethyl Benzene	0.0023	0.010	Not Detected	Not Detected
Total Xylenes	0.0023	0.010	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.023	0.097	1.4 B	5.8 B
C2-C4 Hydrocarbons ref. to Gasoline	0.023	0.043	0.063 J	0.12 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	89	50-150
Fluorobenzene (FID)	100	50-150

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SAMPLE NAME : SVS-12-5

ID#: 9811249B-14A

Modified CARB 410A GC/PID/FID

File Name:	8112313	Date of Collection:	11/10/98
Dil. Factor:	2.33	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0023	0.0076	0.0070 J	0.023 J
Toluene	0.0023	0.0089	0.014	0.052
Ethyl Benzene	0.0023	0.010	0.0032 J	0.014 J
Total Xylenes	0.0023	0.010	0.017 J	0.077 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.023	0.097	1.2 B	5.2 B
C2-C4 Hydrocarbons ref. to Gasoline	0.023	0.043	0.035 J	0.064 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	88	50-150
Fluorobenzene (FID)	100	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-12-10

ID#: 9811249B-15A

Modified CARB 410A GC/PID/FID

File Name:	6112314	Date of Collection:	11/10/98
Dil. Factor:	2.42	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0024	0.0079	0.0038 J	0.012 J
Toluene	0.0024	0.0093	0.024	0.094
Ethyl Benzene	0.0024	0.011	0.0034 J	0.015 J
Total Xylenes	0.0024	0.011	0.015 J	0.066 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.024	0.10	1.3 B	5.4 B
C2-C4 Hydrocarbons ref. to Gasoline	0.024	0.044	0.056 J	0.10 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	112	50-150
Fluorobenzene (FID)	129	50-150

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SAMPLE NAME : SVS-12-15

ID#: 9811249B-16A

Modified CARB 410A GC/PID/FID

File Name:	6112316	Date of Collection:	11/10/98
Dil. Factor:	2.47	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0025	0.0080	0.0053 J	0.017 J
Toluene	0.0025	0.0095	0.010 J	0.039 J
Ethyl Benzene	0.0025	0.011	Not Detected	Not Detected
Total Xylenes	0.0025	0.011	0.0038 J	0.017 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	1.4 B	5.6 B
C2-C4 Hydrocarbons ref. to Gasoline	0.025	0.045	0.072 J	0.13 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	88	50-150
Fluorobenzene (FID)	99	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-12-20

ID#: 9811249B-17A

Modified CARB 410A GC/PID/FID

File Name:	6112317	Date of Collection:	11/10/98
Dil. Factor:	2.47	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0025	0.0080	0.0045 J	0.015 J
Toluene	0.0025	0.0095	0.017	0.065
Ethyl Benzene	0.0025	0.011	0.0034 J	0.015 J
Total Xylenes	0.0025	0.011	0.011 J	0.048 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.025	0.10	1.5 B	6.4 B
C2-C4 Hydrocarbons ref. to Gasoline	0.025	0.045	0.053 J	0.097 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	98	50-150
Fluorobenzene (FID)	108	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-13-5

ID#: 9811249B-18A

Modified CARB 410A GC/PID/FID

File Name:	6112318	Date of Collection:	11/10/98
Dil. Factor:	2.42	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0024	0.0079	Not Detected	Not Detected
Toluene	0.0024	0.0093	0.011	0.041
Ethyl Benzene	0.0024	0.011	0.0031 J	0.014 J
Total Xylenes	0.0024	0.011	0.012 J	0.054 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.024	0.10	1.6 B	6.7 B
C2-C4 Hydrocarbons ref. to Gasoline	0.024	0.044	0.033 J	0.060 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	94	50-150
Fluorobenzene (FID)	107	50-150

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SAMPLE NAME : SVS-13-10

ID#: 9811249B-19A

Modified CARB 410A GC/PID/FID

File Name:	6112319	Date of Collection:	11/10/98
Dil. Factor:	2.33	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0023	0.0076	0.0043 J	0.014 J
Toluene	0.0023	0.0089	0.0099 J	0.038 J
Ethyl Benzene	0.0023	0.010	Not Detected	Not Detected
Total Xylenes	0.0023	0.010	0.0031 J	0.014 J
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.023	0.097	1.4 B	5.7 B
C2-C4 Hydrocarbons ref. to Gasoline	0.023	0.043	0.060 J	0.11 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	96	50-150
Fluorobenzene (FID)	109	50-150

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SAMPLE NAME : SVS-16-10

ID#: 9811249B-20A

Modified CARB 410A GC/PID/FID

File Name:	6112320	Date of Collection:	11/11/98
Dil. Factor:	2.33	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0023	0.0076	0.0074 J	0.024 J
Toluene	0.0023	0.0089	0.020	0.076
Ethyl Benzene	0.0023	0.010	Not Detected	Not Detected
Total Xylenes	0.0023	0.010	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.023	0.097	1.9 B	8.0 B
C2-C4 Hydrocarbons ref. to Gasoline	0.023	0.043	0.12 J	0.22 J

B = Compound present in laboratory blank, background subtraction not performed:

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	96	50-150
Fluorobenzene (FID)	108	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-16-10 Duplicate

ID#: 9811249B-20AA

Modified CARB 410A GC/PID/FID

File Name:	6112321	Date of Collection:	11/11/98
Dil. Factor:	2.33	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0023	0.0076	0.0072 J	0.023 J
Toluene	0.0023	0.0089	0.018	0.070
Ethyl Benzene	0.0023	0.010	Not Detected	Not Detected
Total Xylenes	0.0023	0.010	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.023	0.097	2.0 B	8.1 B
C2-C4 Hydrocarbons ref. to Gasoline	0.023	0.043	0.11 J	0.20 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	97	50-150
Fluorobenzene (FID)	110	50-150

AIR TOXICS LTD.

SAMPLE NAME : SVS-16-15

ID#: 9811249B-21A

Modified CARB 410A GC/PID/FID

File Name:	6112322	Date of Collection:	11/11/98
Dil. Factor:	2.29	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0023	0.0074	0.0023 J	0.0076 J
Toluene	0.0023	0.0088	0.0073 J	0.028 J
Ethyl Benzene	0.0023	0.010	Not Detected	Not Detected
Total Xylenes	0.0023	0.010	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.023	0.095	2.0 B	8.5 B
C2-C4 Hydrocarbons ref. to Gasoline	0.023	0.042	0.038 J	0.070 J

B = Compound present in laboratory blank, background subtraction not performed.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	95	50-150
Fluorobenzene (FID)	110	50-150

AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811249B-22A

Modified CARB 410A GC/PID/FID

File Name:	6111919	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/19/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	Not Detected	Not Detected
Ethyl Benzene	0.0010	0.0044	Not Detected	Not Detected
Total Xylenes	0.0010	0.0044	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.010	0.042	0.010 J	0.042 J
C2-C4 Hydrocarbons ref. to Gasoline	0.010	0.018	Not Detected	Not Detected

J = Estimated value.

Container Type: NA

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	100	50-150
Fluorobenzene (FID)	100	50-150

AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811249B-22B

Modified CARB 410A GC/PID/FID

File Name:	6112310	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/23/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	Not Detected	Not Detected
Ethyl Benzene	0.0010	0.0044	Not Detected	Not Detected
Total Xylenes	0.0010	0.0044	Not Detected	Not Detected
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.010	0.042	0.017 J	0.071 J
C2-C4 Hydrocarbons ref. to Gasoline	0.010	0.018	Not Detected	Not Detected

J = Estimated value.

Container Type: NA

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	96	50-150
Fluorobenzene (FID)	106	50-150

AIR TOXICS LTD.

SAMPLE NAME : Method Spike

ID#: 9811249B-23A

Modified CARB 410A GC/PID/FID

File Name:	6111901	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/19/98

Compound	Det. Limit (ppmv)	Det. Limit (uG/L)	% Recovery
Benzene	0.0010	0.0032	100
Toluene	0.0010	0.0038	96
Ethyl Benzene	0.0010	0.0044	95
Total Xylenes	0.0010	0.0044	92
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.010	0.042	80
C2-C4 Hydrocarbons ref. to Gasoline	0.010	0.018	80

Container Type: NA

Surrogates	% Recovery	Method Limits
Fluorobenzene (PID)	99	50-150
Fluorobenzene (FID)	116	50-150