CAMBRIA

May 8, 2001

Mr. Don Hwang
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **First Quarter 2001 Monitoring Report**
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
Incident #97093397
Cambria Project #243-0781-002

Dear Mr. Hwang:

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

FIRST QUARTER 2001 ACTIVITIES

Subsurface Investigation: In response to Alameda County Health Care Services Agency correspondence dated September 23, 1999 and subsequent correspondence, Cambria prepared a *Subsurface Investigation Report* summarizing investigation activities performed in November 2000 as well as additional well and utility conduit surveys performed in 2001. This report will be finalized under separate cover during May 2001.

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells, calculated groundwater elevations and compiled the analytical data. Cambria prepared a groundwater elevation contour map (Figure 1). Due to an oversight, newly installed wells MW-3, MW-4, and MW-5 were not sampled during the first quarter 2001 quarterly monitoring activities. These wells are currently scheduled to be sampled quarterly beginning the second quarter 2001. Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Oakland, CA
San Ramon, CA
Sonoma, CA

Cambria Environmental Technology, Inc.

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

ANTICIPATED SECOND QUARTER 2001 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report including development and sampling data for new wells MW-3, MW-4 and MW-5.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Jacquelyn Jones
Project Geologist

Diane Lundquist, P.E.
Principal Engineer

Figure: 1 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
Matthew Dudley, Burnham and Brown, 1901 Harrison Street, Oakland, California 94612
Rodney & Janet Kwan, 1834 Alameda Ave., Alameda, CA 94501

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05/07/01

residential

service bays

office

wooden car port

MW-1
15.20
<0.500
<2.50

MW-5 B-13

B-5 B-17

TP4-E

V-1
14.85
1.77
6.40

TP1-N

B-9 B-6

B-19

B-8

15.00

15.00

former dispenser areas

B-7

TP2-S

former USTs

TP3-W

B-3

B-1

B-4

B-18

14.50

14.50

MW-4

V-2
14.77
4,510
375

MW-2
14.14
<0.500
<2.50

B-10

MW-3

7' Depth

MARTIN LUTHER KING JR WAY

3.5' Depth

9' Depth

27th STREET

5' Depth

5.5' Depth

9' Depth

EXPLANATION

- MW-1 — Monitoring well location
- V-1 — Soil vapor well location
- B-10 — Soil boring location
- TP1-N — UST excavation samples
- → Groundwater flow direction
- xx.xx — Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred
- Well designation
- ELEV — Groundwater elevation, in feet above msl
- Benzene / MTBE — Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8020; MTBE results in parentheses are analyzed by EPA Method 8260
- Storm drain
- Sanitary sewer line
- Flow direction indicator

0 10 20 40

Scale (ft)

Groundwater Elevation Contour Map

January 4, 2001

CAMBRIA

FIGURE

1

Former Shell Service Station

2703 Martin Luther King Jr. Way

Oakland, California

Incident #97093397

G:\OAKLAND 2703 MLK\FIGURES\1QM01-MP3.DWG

ATTACHMENT A

Blaine Groundwater Monitoring Report and Field Notes

2/26

BLAINE
TECH SERVICES INC

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

February 20, 2001

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91510-7869

First Quarter 2001 Groundwater Monitoring at
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, CA

Monitoring performed on January 4, 2001

Groundwater Monitoring Report **010104-Z-3**

This report covers the routine monitoring of groundwater wells at this Former Shell 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, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

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

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

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

Please call if you have any questions.

Yours truly,

Deidre Kerwin
Operations Manager

DK/jt

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

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

WELL CONCENTRATIONS
Former Shell Service Station
2703 Martin Luther King Way
Oakland, CA
Wic #204-5508-1701

Well ID	Date	TPPH (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.)
MW-1 (B-11)	08/02/1996	NA	NA	NA	NA	NA	NA	NA	23.53	NA	NA	NA
MW-1 (B-11)	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	8.76	14.77	NA
MW-1 (B-11) (D)	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	NA	NA	NA
MW-1 (B-11)	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	9.88	13.65	NA
MW-1 (B-11)	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	6.82	16.71	NA
MW-1 (B-11)	04/07/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	7.89	15.64	NA
MW-1 (B-11)	07/02/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	8.71	14.82	NA
MW-1 (B-11)	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	9.26	14.27	NA
MW-1 (B-11)	01/09/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	7.94	15.59	NA
MW-1 (B-11)	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	7.21	16.32	NA
MW-1 (B-11)	07/14/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	7.78	15.75	NA
MW-1 (B-11)	10/01/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	8.39	15.14	NA
MW-1 (B-11)	01/18/1999	<50.0	<0.500	0.785	<0.500	<0.500	2.36	NA	23.53	8.28	15.25	NA
MW-1 (B-11)	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.53	8.41	15.12	NA
MW-1 (B-11)	08/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.53	8.17	15.36	NA
MW-1 (B-11)	10/06/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	23.53	9.37	14.16	NA
MW-1 (B-11)	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.53	7.52	16.01	NA
MW-1 (B-11)	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.53	7.66	15.87	NA
MW-1 (B-11)	07/19/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.53	7.81	15.72	NA
MW-1 (B-11)	10/24/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.53	8.33	15.20	NA
MW-1 (B-11)	**01/04/2001**	**<50.0**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<2.50**	**NA**	**23.53**	**8.33**	**15.20**	**NA**
MW-2 (B-12)*	07/17/1996	<50	<0.50	0.69	<0.50	<0.50	<2.5	NA	22.47	NA	NA	NA
MW-2 (B-12)*	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	8.35	14.12	NA
MW-2 (B-12)*	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	9.32	13.15	NA
MW-2 (B-12) (D)*	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	NA	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
2703 Martin Luther King Way
Oakland, CA
Wic #204-5508-1701

Well ID	Date	TPPH (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.)
MW-2 (B-12)*	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	6.80	15.67	NA
MW-2 (B-12) (D)*	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	NA	NA	NA
MW-2 (B-12)*	04/07/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	7.81	14.66	NA
MW-2 (B-12)*	07/02/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	8.27	14.20	NA
MW-2 (B-12)*	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	9.12	13.35	NA
MW-2 (B-12)*	01/09/1998	<50	<0.50	<0.50	<0.50	<0.50	6.3	NA	22.47	7.41	15.06	NA
MW-2 (B-12)*	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	6.59	15.88	NA
MW-2 (B-12)*	07/14/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	7.49	14.98	NA
MW-2 (B-12)*	10/01/1998	<50	<0.50	<0.50	<0.50	0.59	<2.5	NA	22.47	8.58	13.89	NA
MW-2 (B-12)*	01/18/1999	<50.0	<0.500	0.971	<0.500	<0.500	2.47	NA	22.47	8.68	13.79	NA
MW-2 (B-12)*	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	22.47	8.62	13.85	NA
MW-2 (B-12)*	08/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.47	7.43	15.04	NA
MW-2 (B-12)*	10/06/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	22.47	9.00	13.47	NA
MW-2 (B-12)*	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.47	8.15	14.32	NA
MW-2 (B-12)*	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.47	7.04	15.43	NA
MW-2 (B-12)*	07/19/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.47	7.13	15.34	NA
MW-2 (B-12)*	10/24/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	22.47	8.78	13.69	NA
MW-2 (B-12)*	**01/04/2001**	**<50.0**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**<2.50**	**NA**	**22.47**	**8.33**	**14.14**	**NA**
B-10 *	07/17/1996	20000	400	<100	<100	870	<500	NA	NA	NA	NA	NA
B-13*	07/17/1996	290000	34000	21000	9900	47000	<2500	NA	NA	NA	NA	NA
V-1	08/02/1996	NA	NA	NA	NA	NA	NA	NA	23.26	NA	NA	NA
V-1	08/05/1996	NA	NA	NA	NA	NA	NA	NA	23.26	8.58	14.68	NA
V-1	10/17/1996	NA	NA	NA	NA	NA	NA	NA	23.26	10.02	13.24	NA

WELL CONCENTRATIONS
Former Shell Service Station
2703 Martin Luther King Way
Oakland, CA
Wic #204-5508-1701

Well ID	Date	TPPH (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.)
V-1	01/16/1997	9500	1200	250	280	880	<50	NA	23.26	5.55	17.71	NA
V-1	04/07/1997	2200	42	<5.0	130	15	<25	NA	23.26	7.40	15.86	NA
V-1	07/02/1997	2600	340	5.8	49	12	74	<4.0	23.26	8.94	14.32	NA
V-1	10/24/1997	57000	5200	2300	3600	16000	1900	<200	23.26	9.43	13.83	NA
V-1	01/09/1998	23000	2400	1700	1300	2300	310	NA	23.26	6.81	16.45	NA
V-1 (D)	01/09/1998	24000	2500	1800	1400	2400	450	NA	23.26	NA	NA	NA
V-1	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.26	4.58	18.68	NA
V-1 (D)	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.26	NA	NA	NA
V-1	07/14/1998	160	1.9	<0.50	4.2	<0.50	6.1	NA	23.26	7.51	15.75	NA
V-1	10/01/1998	440	18	<0.50	11	0.80	7.9	NA	23.26	8.49	14.77	NA
V-1	01/18/1999	697	55.7	0.839	28.2	<0.500	9.35	NA	23.26	8.59	14.67	NA
V-1	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	23.26	8.69	14.57	NA
V-1	08/23/1999	457	33.4	3.59	16.3	<0.500	13.9	NA	23.26	8.99	14.27	NA
V-1	10/06/1999	714	53.7	0.740	8.69	<0.500	9.83	NA	23.26	9.55	13.71	NA
V-1	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.26	7.19	16.07	NA
V-1	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	23.26	7.67	15.59	NA
V-1	07/19/2000	255	21.7	<0.500	10.2	<0.500	7.33	<1.00a	23.26	7.53	15.73	NA
V-1	10/24/2000	200	4.05	0.566	<0.500	<0.500	7.82	NA	23.26	7.38	15.88	NA
V-1	**01/04/2001**	**128**	**1.77**	**<0.500**	**<0.500**	**<0.500**	**6.40**	**<10.0b**	**23.26**	**8.41**	**14.85**	**NA**
V-2	08/02/1996	NA	NA	NA	NA	NA	NA	NA	22.80	NA	NA	NA
V-2	08/05/1996	NA	NA	NA	NA	NA	NA	NA	22.80	7.94	14.86	NA
V-2	10/17/1996	NA	NA	NA	NA	NA	NA	NA	22.80	9.30	13.50	NA
V-2	01/08/1997	69000	4800	2800	2700	13000	750	NA	22.80	5.82	16.98	NA
V-2	04/07/1997	90000	4400	1900	3300	14000	<500	NA	22.80	7.10	15.70	NA
V-2 (D)	04/07/1997	77000	4400	2000	3200	14000	<250	NA	22.80	NA	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
2703 Martin Luther King Way
Oakland, CA
Wic #204-5508-1701

Well ID	Date	TPPH (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.)
V-2	07/02/1997	82000	5500	2700	3500	16000	530	<100	22.80	8.35	14.45	NA
V-2 (D)	07/02/1997	85000	5600	2800	3600	17000	520	<100	22.80	NA	NA	NA
V-2	10/24/1997	7300	1100	97	230	180	91	<12	22.80	10.03	12.77	NA
V-2 (D)	10/24/1997	12000	1700	340	650	630	120	<20	22.80	NA	NA	NA
V-2	01/09/1998	40000	4100	1500	2500	9000	280	NA	22.80	6.94	15.86	NA
V-2	04/02/1998	62000	6800	2400	3400	14000	<250	NA	22.80	5.35	17.45	NA
V-2	07/14/1998	43000	4700	1100	2500	6600	<250	NA	22.80	6.48	16.32	NA
V-2 (D)	07/14/1998	48000	5100	1300	2600	8100	<250	NA	22.80	NA	NA	NA
V-2	10/01/1998	53000	5200	1800	3200	10000	83	NA	22.80	8.41	14.39	NA
V-2 (D)	10/01/1998	55000	5300	1900	3300	11000	65	NA	22.80	NA	NA	NA
V-2	01/18/1999	47100	5800	1960	3450	10200	<100	NA	22.80	8.29	14.51	NA
V-2	04/29/1999	65000	6100	2800	3200	12000	540	NA	22.80	8.19	14.61	NA
V-2	08/23/1999	59600	6240	2190	3900	14700	390	NA	22.80	8.44	14.36	NA
V-2	10/06/1999	63800	4820	1860	2840	11100	<1000	NA	22.80	8.96	13.84	NA
V-2	01/27/2000	59600	10200	2840	3450	12100	<500	NA	22.80	7.57	15.23	NA
V-2	04/18/2000	45000	6050	2700	3340	12200	<250	NA	22.80	8.14	14.66	NA
V-2	07/19/2000	31800	4440	1270	2390	6820	<500	NA	22.80	8.21	14.59	NA
V-2	10/24/2000	40100	4810	1730	2960	8650	734	<10.0	22.80	8.53	14.27	NA
V-2	**01/04/2001**	**37500**	**4510**	**1390**	**2710**	**6880**	**375**	**NA**	**22.80**	**8.03**	**14.77**	**NA**

WELL CONCENTRATIONS
Former Shell Service Station
2703 Martin Luther King Way
Oakland, CA
Wic #204-5508-1701

Well ID	Date	TPPH (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.)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020
MTBE = methyl-tertiary-butyl ether
TOC = Top of Casing Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
ug/L = parts per billion
msl = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample
NA = Not applicable

Notes:
* = Water sample from Boring
a = This sample analyzed outside of EPA recommended holding time.
b = Due to error of Sequoia Analytical laboratories, well V-1 confirmed for MTBE by EPA Method 8260 instead of V-2.

Sequoia
Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

15 February, 2001

Nick Sudano
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: 2703 Martin Luther King, Jr. Way
Sequoia Report: MKA0097

Enclosed are the results of analyses for samples received by the laboratory on 01/05/01 10:37. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson
Client Services Manager

CA ELAP Certificate #1210

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project: 2703 Martin Luther King, Jr. Way	
1680 Rogers Avenue	Project Number: 2703 Martin Luther King, Jr. Way/ Oaklan	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	02/15/01 15:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MKA0097-01	Water	01/04/01 14:40	01/05/01 10:37
MW-2	MKA0097-02	Water	01/04/01 15:00	01/05/01 10:37
V-1	MKA0097-03	Water	01/04/01 15:20	01/05/01 10:37
V-2	MKA0097-04	Water	01/04/01 15:40	01/05/01 10:37

Wayne Stevenson, Client Services Manager

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project: 2703 Martin Luther King, Jr. Way	
1680 Rogers Avenue	Project Number: 2703 Martin Luther King, Jr. Way/ Oaklan	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	02/15/01 15:44

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MKA0097-01) Water Sampled: 01/04/01 14:40 Received: 01/05/01 10:37									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A12005	01/12/01	01/12/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.3 %*		*70-130*	"	"	"	"	
MW-2 (MKA0097-02) Water Sampled: 01/04/01 15:00 Received: 01/05/01 10:37									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A12005	01/12/01	01/12/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*92.1 %*		*70-130*	"	"	"	"	
V-1 (MKA0097-03) Water Sampled: 01/04/01 15:20 Received: 01/05/01 10:37									
Purgeable Hydrocarbons	**128**	50.0	ug/l	1	1A15004	01/15/01	01/15/01	DHS LUFT	P-03
Benzene	**1.77**	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**6.40**	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.8 %*		*70-130*	"	"	"	"	

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Blaine Tech Services (Shell)	Project: 2703 Martin Luther King, Jr. Way	
1680 Rogers Avenue	Project Number: 2703 Martin Luther King, Jr. Way/ Oaklan	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	02/15/01 15:44

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
V-2 (MKA0097-04) Water Sampled: 01/04/01 15:40 Received: 01/05/01 10:37									
Purgeable Hydrocarbons	**37500**	5000	ug/l	100	1A15004	01/15/01	01/15/01	DHS LUFT	P-01
Benzene	**4510**	50.0	"	"	"	"	"	"	
Toluene	**1390**	50.0	"	"	"	"	"	"	
Ethylbenzene	**2710**	50.0	"	"	"	"	"	"	
Xylenes (total)	**6880**	50.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**375**	250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.5 %*	*70-130*		"	"	"	"	

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Blaine Tech Services (Shell)	Project: 2703 Martin Luther King, Jr. Way	
1680 Rogers Avenue	Project Number: 2703 Martin Luther King, Jr. Way/ Oaklan	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	02/15/01 15:44

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
V-1 (MKA0097-03) Water Sampled: 01/04/01 15:20 Received: 01/05/01 10:37									
Methyl tert-butyl ether	ND	10.0	ug/l	10	1A17009	01/16/01	01/16/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		*113 %*		*70-130*		"	"	"	"

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Blaine Tech Services (Shell)	Project: 2703 Martin Luther King, Jr. Way	
1680 Rogers Avenue	Project Number: 2703 Martin Luther King, Jr. Way/ Oaklan	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	02/15/01 15:44

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1A12005 - EPA 5030B [P/T]										
Blank (1A12005-BLK1)				Prepared & Analyzed: 01/12/01						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*9.15*		"	*10.0*		*91.5*	*70-130*			
LCS (1A12005-BS1)				Prepared & Analyzed: 01/12/01						
Purgeable Hydrocarbons	245	50.0	ug/l	250		98.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.16*		"	*10.0*		*91.6*	*70-130*			
Matrix Spike (1A12005-MS1)		**Source: MKA0097-02**		Prepared & Analyzed: 01/12/01						
Purgeable Hydrocarbons	236	50.0	ug/l	250	ND	94.4	60-140			
Surrogate: a,a,a-Trifluorotoluene	*9.10*		"	*10.0*		*91.0*	*70-130*			
Matrix Spike Dup (1A12005-MSD1)		**Source: MKA0097-02**		Prepared & Analyzed: 01/12/01						
Purgeable Hydrocarbons	237	50.0	ug/l	250	ND	94.8	60-140	0.423	25	
Surrogate: a,a,a-Trifluorotoluene	*8.91*		"	*10.0*		*89.1*	*70-130*			
Batch 1A15004 - EPA 5030B [P/T]										
Blank (1A15004-BLK1)				Prepared & Analyzed: 01/15/01						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*9.26*		"	*10.0*		*92.6*	*70-130*			

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1680 Rogers Avenue	Project Number: 2703 Martin Luther King, Jr. Way/ Oaklan	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	02/15/01 15:44

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1A15004 - EPA 5030B [P/T]										
LCS (1A15004-BS1)				Prepared & Analyzed: 01/15/01						
Purgeable Hydrocarbons	239	50.0	ug/l	250		95.6	70-130			
Surrogate: a,a,a-Trifluorotoluene	*8.99*		"	*10.0*		*89.9*	*70-130*			
Matrix Spike (1A15004-MS1)		**Source: MKA0170-16**		Prepared & Analyzed: 01/15/01						
Purgeable Hydrocarbons	226	50.0	ug/l	250	ND	90.4	60-140			
Surrogate: a,a,a-Trifluorotoluene	*9.01*		"	*10.0*		*90.1*	*70-130*			
Matrix Spike Dup (1A15004-MSD1)		**Source: MKA0170-16**		Prepared & Analyzed: 01/15/01						
Purgeable Hydrocarbons	228	50.0	ug/l	250	ND	91.2	60-140	0.881	25	
Surrogate: a,a,a-Trifluorotoluene	*8.91*		"	*10.0*		*89.1*	*70-130*			

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1680 Rogers Avenue	Project Number: 2703 Martin Luther King, Jr. Way/ Oaklan	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	02/15/01 15:44

MTBE Confirmation by EPA Method 8260A - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1A17009 - EPA 5030B P/T										
Blank (1A17009-BLK1)				Prepared & Analyzed: 01/16/01						
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*10.5*		"	*10.0*		*105*	*70-130*			
LCS (1A17009-BS1)				Prepared & Analyzed: 01/16/01						
Methyl tert-butyl ether	9.01	1.00	ug/l	10.0		90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.64*		"	*10.0*		*96.4*	*70-130*			
Matrix Spike (1A17009-MS1)		**Source: MKA0099-02**		Prepared & Analyzed: 01/16/01						
Methyl tert-butyl ether	81.9	10.0	ug/l	100	ND	81.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*15.3*		"	*10.0*		*153*	*70-130*			*S-04*
Matrix Spike Dup (1A17009-MSD1)		**Source: MKA0099-02**		Prepared & Analyzed: 01/16/01						
Methyl tert-butyl ether	86.6	10.0	ug/l	100	ND	86.6	70-130	5.58	25	
Surrogate: 1,2-Dichloroethane-d4	*20.4*		"	*10.0*		*204*	*70-130*			*S-04*
Batch 1A25005 - EPA 5030B P/T										
Blank (1A25005-BLK1)				Prepared & Analyzed: 01/24/01						
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*7.75*		"	*10.0*		*77.5*	*70-130*			
LCS (1A25005-BS1)				Prepared & Analyzed: 01/24/01						
Methyl tert-butyl ether	10.2	1.00	ug/l	10.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*8.78*		"	*10.0*		*87.8*	*70-130*			
Matrix Spike (1A25005-MS1)		**Source: MKA0337-02**		Prepared & Analyzed: 01/24/01						
Methyl tert-butyl ether	731	20.0	ug/l	200	709	11.0	70-130			Q-02
Surrogate: 1,2-Dichloroethane-d4	*8.07*		"	*10.0*		*80.7*	*70-130*			

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1680 Rogers Avenue	Project Number: 2703 Martin Luther King, Jr. Way/ Oaklan	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	02/15/01 15:44

MTBE Confirmation by EPA Method 8260A - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1A25005 - EPA 5030B P/T										
Matrix Spike Dup (1A25005-MSD1)	**Source: MKA0337-02**			Prepared & Analyzed: 01/24/01						
Methyl tert-butyl ether	740	20.0	ug/l	200	709	15.5	70-130	1.22	25	Q-02
Surrogate: 1,2-Dichloroethane-d4	*7.34*		"	*10.0*		*73.4*	*70-130*			

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1680 Rogers Avenue	Project Number: 2703 Martin Luther King, Jr. Way/ Oaklan	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	02/15/01 15:44

Notes and Definitions

P-01	Chromatogram Pattern: Gasoline C6-C12
P-03	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
Q-02	The spike recovery for this quality control sample is outside of the established control limits due to interference from the sample matrix. However, the accuracy of the data was validated by a laboratory control sample which was within acceptance limits.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

LAB: sequoia

EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be Invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Karen Petryna

INCIDENT NUMBER (SEE ONLY): 9 7 0 9 3 3 9 7

SAP or CRMT NUMBER (TS/CRMT):

PAGE: 1 of 1

CONSULTANT COMPANY: Blaine Tech Services

ADDRESS: 580 Rogers Avenue

CITY: San Jose, CA 95112

TELEPHONE: 408-573-0555 FAX: 408-573-7771 E-MAIL: nsudano@blainetech.com

SITE ADDRESS (Street and City): 2703 Martin Luther King Jr. Way, Oakland

PROJECT CONTACT (Report to): Nick Sudano

CONSULTANT PROJECT NO. BTS # 010104-Z3

SAMPLER NAME(S) (Print): Aidan Metzger

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☑ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GO/MS MTBE CONFIRMATION: HIGHEST ✓ HIGHEST per BORING ____ ALL ____

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable (8015m)	BTEX (8021B)	MTBE (8021B)	MTBE (8260B)	TPH - Diesel, Extractable (8015m)	Oxygenates (5) by 8260	Ethanol, Methanol (8015B)	MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-1	1-4-01	1440	W	3	X	X	X					X	MKA 0097 01
	MW-2		1500			X	X	X					X	02
	V-1		1520			X	X	X					X	03
	V-2		1540			X	X	X					X	04

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Aidan Metzger		1-5-00	800
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	EOP	1/5	1037
Relinquished by: (Signature)	Received by (Signature)	Date:	Time:

10/16/00 Revision

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

C&G Graphic (714) 898-9702

WELL GAUGING DATA

Project # 010104-Z3 Date 1-4-01 Client Equiva

Site 2703 M.L.K. Jr Way, Oakland

	Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
1	MW-1	2					8.33	19.72	TOC	
2	MW-2	2					8.33	19.05		
3	V-1	2					8.41	12.15		
4	V-2	2					8.03	12.67		

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010104-Z3	Site: 204-5508-1701
Sampler: Aidan M.	Date: 1-4-01
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.72	Depth to Water: 8.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: No Purge

Bailer
Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other ____

Sampling Method: Bailer
[X] Disposable Bailer
Extraction Port
Dedicated Tubing
Other: ____

____ (Gals.) X ____ = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1439	69.0	7.4	1444	22	—	

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Time: 14:40 Sampling Date: 1-4-01

Sample I.D.: MW-1 Laboratory: (Sequoia) Columbia Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010104-Z3	Site: 204-5508-1701
Sampler: Aidan M.	Date: 1-4-01
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.05	Depth to Water: 8.33
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: No Purge

Bailer
Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: Bailer

☒ Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1458	68.3	7.2	1115	19	—	

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Time: 1500 Sampling Date: 1-4-01

Sample I.D.: MW-2 Laboratory: (Sequoia) Columbia Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010104-Z3	Site: 204-5508-1701
Sampler: Aidan M.	Date: 1-4-01
Well I.D.: V-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 12.15	Depth to Water: 8.41
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: No Purge

Bailer
Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: Bailer
☒Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1519	67.5	6.9	1677	2.8	—	

Did well dewater? Yes (No) Gallons actually evacuated: —

Sampling Time: 1520 Sampling Date: 1-4-01

Sample I.D.: ~~#2~~ V-1 Laboratory: (Sequoia) Columbia Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

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

MAY 17 2001

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010104-Z3	Site: 204-5508-1701
Sampler: Aidan M.	Date: 1-4-01
Well I.D.: V-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 12.67	Depth to Water: 8.03
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: No Purge

Bailer
Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: Bailer
☒ Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1538	67.7	6.9	1441	11	—	

Did well dewater? Yes (No)		Gallons actually evacuated: —	
Sampling Time: 1540		Sampling Date: 1-4-01	
Sample I.D.: V-2		Laboratory: (Sequoia) Columbia Other_____	
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D		Other:	
EB I.D. (if applicable):	@ Time	Duplicate I.D. (if applicable):	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV