CAMBRIA

December 29, 2000

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

Re: **Third Quarter 2000 Monitoring Report**
Former Shell Service Station
2101 Park Boulevard
Oakland, California
Incident #97088251
Cambria Project #242-0865-002

229

waiting for SSE report & Submit for Closure.

Dear Mr. Chan:

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.

THIRD QUARTER 2000 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged the site wells, sampled well S-3, calculated groundwater elevations, and compiled the hydrocarbon analytical data. Cambria compiled the bioattenuation and other constituents data (Table 1) and prepared a groundwater elevation contour map (Figure 1). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

ANTICIPATED FOURTH QUARTER 2000 ACTIVITIES

Groundwater Monitoring: Blaine will gauge all wells, sample well S-3, and tabulate the data. Cambria will prepare a monitoring report

Subsurface Investigation: Cambria performed additional subsurface investigation on October 29, 2000. The results, to be issued in a forthcoming report and in conjunction with the previously prepared RBCA analysis, will help determine the status of potential case closure for this site

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

CAMBRIA

Barney Chan
December 29, 2000

CLOSING

We appreciate the opportunity to work with you on this project. Please call Troy Buggle at (510) 420-3333 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

for: Troy A. Buggle
Senior Staff Scientist

Stephan A. Bork, C.E.G., C.HG.
Associate Hydrogeologist

REGISTERED GEOLOGIST
STEPHAN A. BORK
No. EG 2058
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Figure: 1 - Groundwater Elevation Contour Map

Table: 1 - Groundwater Analytical Data - Other Constituents

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
Frank J. Schlessinger, Schlessinger & Associates, 333 Kearney Street, San Francisco, CA 94108
Alice S Heilman, Schlessinger & Associates, 333 Kearney Street, San Francisco, CA 94108
Steve Makara, Goodyear Tire and Rubber Company, 1144 East Market Street, Akron, Ohio 44316-0001

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Table 1. **Groundwater Analytical Data - Other Constituents** - Former Shell Service Station, Incident #97088251, 2101 Park Boulevard, Oakland, California

Sample ID	Date Sampled	1,2-DCA	EDB	MTBE by 8260	Nitrate	Sulfate	Total Dissolved Solids	Ferrous Iron	Alkalinity	DO (ppm)	ORP (mV)
		← (Concentrations in ppb) →									
S-3	09/30/99	<0.500	<0.500	<50.0	1,280	5,600	1,120,000	1,900	1,134,000	1.6	95
	12/29/99	---	---	<62.5	<1,000	5940	1,050,000	11,550	1,400	2.1	-159
	03/07/00	---	---	---	<1,000	7,640	940,000	1,900	204,000	0.88	-92
	06/01/00	---	---	---	<226	7,510	998,000	1,900	1,530,000	1.8	-135
	09/28/00	**---**	**---**	**2.53**	**<1,000**	**2,030**	**972,000**	**2,000**	**1,155,000**	**1.4**	**-95**

Abbreviations:

1,2-DCA = 1,2 dichloroethane by EPA Method 8010
EDB = Ethylene dibromide (1,2-dibromoethane) by EPA Method 8010
MTBE = Methyl tert-butyl ether by EPA Method 8020
DO = Dissolved oxygen, measured pre-purge
ORP = Oxidation reduction potential
ppb = Parts per billion
ppm = Parts per million
mV = Millivolts

Notes:

Nitrate as nitrate and sulfate as sulfate by EPA Method 300.0
Total dissolved solids by EPA Method 160.1
--- = Not analyzed / not available
DO, ORP, ferrous iron, and alkalinity measured in the field
<n = Below detection limits of n units

ATTACHMENT A

Blaine Groundwater Monitoring Report and Field Notes

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

October 31, 2000

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

Third Quarter 2000 Groundwater Monitoring at
Shell-branded Service Station
2101 Park Boulevard
Oakland, CA

Monitoring performed on September 28, 2000

Groundwater Monitoring Report **000928-Z-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, 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 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,

Deidre Kerwin
Operations Manager

DK/jt

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

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

WELL CONCENTRATIONS
Former Shell Service Station
2101 Park Boulevard
Oakland, CA
Wic #204-5508-1206

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-1	06/20/1995	160	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	11.93	4.67	7.26	NA	NA
S-1	09/12/1995	<50	250	3.0	<0.5	<0.5	<0.5	NA	NA	11.93	4.19	7.74	NA	NA
S-1	12/28/1995	70	160	1.1	<0.5	<0.5	1.3	NA	NA	11.93	5.30	6.63	NA	NA
S-1	03/25/1996	70	220	<0.5	<0.5	<0.5	<0.5	<2.0	NA	11.93	3.44	8.49	NA	NA
S-1	06/27/1996	<50	140	0.59	<0.50	<0.50	<0.50	<2.5	NA	11.93	3.15	8.78	NA	NA
S-1	09/26/1996	<50	190	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	3.90	8.03	NA	NA
S-1	12/10/1996	<50	84	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	2.46	9.47	NA	NA
S-1	03/10/1997	<50	200	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	2.93	9.00	NA	NA
S-1	06/26/1997	<50	99	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	3.91	8.02	NA	NA
S-1	09/30/1997	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	4.00	7.93	NA	NA
S-1	12/15/1997	<50	99	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	2.83	9.10	NA	NA
S-1	03/12/1998	<50	100	<0.50	<0.50	<0.50	<0.50	<2.5	NA	11.93	1.73	10.20	NA	2.7
S-1	06/08/1998	NA	NA	NA	NA	NA	NA	NA	NA	11.93	6.05	5.88	NA	0.8
S-1	08/26/1998	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.61	8.32	NA	1.0
S-1	12/24/1998	NA	NA	NA	NA	NA	NA	NA	NA	11.93	4.45	7.48	NA	1.0
S-1	03/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.93	4.17	7.76	NA	1.2
S-1	06/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.53	8.40	NA	2.1
S-1	09/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.70	8.23	NA	2.3
S-1	12/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.92	8.01	NA	2.1
S-1	03/07/2000	NA	NA	NA	NA	NA	NA	NA	NA	11.93	2.16	9.77	NA	0.47
S-1	06/01/2000	NA	NA	NA	NA	NA	NA	NA	NA	11.93	3.38	8.55	NA	1.1
S-1	**09/28/2000**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**11.93**	**3.82**	**8.11**	**NA**	**1.7**
S-2	06/20/1995	180	NA	1.1	<0.5	<0.5	0.6	NA	NA	12.06	5.80	6.26	NA	NA
S-2	09/12/1995	190	NA	18	<0.5	1.2	0.6	NA	NA	12.06	5.78	6.28	NA	NA
S-2	12/28/1995	200	NA	11	1.0	1.0	4.0	NA	NA	12.06	4.02	8.04	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
2101 Park Boulevard
Oakland, CA
Wic #204-5508-1206

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-2	03/25/1996	180	NA	12	0.8	1.4	1.0	<2.0	NA	12.06	5.56	6.50	NA	NA
S-2	06/27/1996	150	NA	7.7	0.79	0.93	0.5	<2.5	NA	12.06	6.00	6.06	NA	NA
S-2	09/26/1996	83	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.73	6.33	NA	NA
S-2	12/10/1996	78	NA	1.4	<0.50	0.57	<0.50	<2.5	NA	12.06	4.57	7.49	NA	NA
S-2	03/10/1997	61	NA	1.6	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.38	6.68	NA	NA
S-2 (D)	03/10/1997	77	NA	2.0	<0.50	0.69	<0.50	<2.5	NA	12.06	NA	NA	NA	NA
S-2	06/26/1997	90	NA	1.5	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.68	6.38	NA	NA
S-2 (D)	06/26/1997	<50	99	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	3.91	8.02	NA	NA
S-2	09/30/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.75	6.31	NA	NA
S-2 (D)	09/30/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.75	6.31	NA	NA
S-2	12/15/1997	<50	NA	4.1	<0.50	<0.50	<0.50	<2.5	NA	12.06	5.35	6.71	NA	NA
S-2	03/12/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	12.06	4.71	7.35	NA	4.3
S-2	06/08/1998	NA	NA	NA	NA	NA	NA	NA	NA	12.06	8.41	3.65	NA	2.2
S-2	08/26/1998	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.23	6.83	NA	1.8
S-2	12/24/1998	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.94	6.12	NA	1.4
S-2	03/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.75	6.31	NA	1.8
S-2	06/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.85	6.21	NA	9.7
S-2	09/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	6.42	5.64	NA	4.9
S-2	12/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.74	6.32	NA	2.5
S-2	03/07/2000	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.42	6.64	NA	6.4
S-2	06/01/2000	NA	NA	NA	NA	NA	NA	NA	NA	12.06	5.91	6.15	NA	2.1
S-2	**09/28/2000**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**12.06**	**6.11**	**5.95**	**NA**	**5.3**
S-3	06/20/1995	5500	NA	240	34	120	840	NA	NA	13.54	4.90	8.64	NA	NA
S-3 (D)	06/20/1995	6300	NA	270	37	120	1100	NA	NA	13.54	NA	NA	NA	NA
S-3	09/12/1995	5200	NA	690	14	290	280	NA	NA	13.54	5.37	8.17	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
2101 Park Boulevard
Oakland, CA
Wic #204-5508-1206

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-3 (D)	09/12/1995	4700	NA	620	13	260	240	NA	NA	13.54	NA	NA	NA	NA
S-3	12/28/1995	13000	NA	670	34	960	1400	NA	NA	13.54	3.90	9.64	NA	NA
S-3 (D)	12/28/1995	13000	NA	800	34	1000	1600	NA	NA	13.54	NA	NA	NA	NA
S-3	03/25/1996	7300	NA	560	65	540	820	<200	NA	13.54	4.30	9.24	NA	NA
S-3 (D)	03/25/1996	7400	NA	580	19	620	670	<20	NA	13.54	NA	NA	NA	NA
S-3	06/27/1996	17000	NA	1100	83	1200	2700	<250	NA	13.54	5.00	8.54	NA	NA
S-3 (D)	06/27/1996	1903	NA	13	1.0	14	34	7.2	NA	13.54	NA	NA	NA	NA
S-3	09/26/1996	8900	NA	920	43	400	1100	<125	NA	13.54	5.23	8.31	NA	NA
S-3 (D)	09/26/1996	9800	NA	960	41	450	1300	120	<16 a	13.54	NA	NA	NA	NA
S-3	12/10/1996	6100	NA	470	25	290	640	<100	NA	13.54	3.88	9.66	NA	NA
S-3 (D)	12/10/1996	7700	NA	550	33	380	880	120	NA	13.54	NA	NA	NA	NA
S-3	03/10/1997	7000	NA	720	29	340	620	110	NA	13.54	4.10	9.44	NA	NA
S-3	06/26/1997	11000	NA	1100	63	470	1300	150	NA	13.54	5.23	8.31	NA	NA
S-3 (D)	06/26/1997	12000	NA	1100	62	480	1400	<100	NA	13.54	NA	NA	NA	NA
S-3	09/30/1997	25000	NA	970	170	1200	4600	<50	NA	13.54	5.36	8.18	NA	NA
S-3	09/30/1997	25000	NA	970	170	1200	4600	<50	NA	13.54	5.36	8.18	NA	NA
S-3	12/15/1997	9800	NA	840	55	420	1100	350	NA	13.54	3.81	9.73	NA	NA
S-3 (D)	12/15/1997	9800	NA	850	56	420	1100	360	<20	13.54	NA	NA	NA	NA
S-3	03/12/1998	2800	NA	260	21	140	600	<12	NA	13.54	4.79	8.75	NA	4.8
S-3 (D)	03/12/1998	2100	NA	200	15	110	450	<12	NA	13.54	NA	NA	NA	NA
S-3	06/08/1998	2500	420	220	23	170	600	<20	NA	13.54	5.60	7.94	NA	NA
S-3 (D)	06/08/1998	3200	NA	270	30	220	740	76	NA	13.54	NA	NA	NA	NA
S-3	06/17/1998	NA	NA	NA	NA	NA	NA	NA	NA	13.54	3.49	10.05	NA	NA
S-3	08/26/1998	4000	600	520	56	270	910	<50	NA	13.54	4.89	8.65	NA	1.9
S-3 (D)	08/26/1998	4100	500	550	65	320	1100	<2.5	NA	13.54	NA	NA	NA	NA
S-3	12/24/1998	3700	590	320	32	210	650	55	NA	13.54	4.93	8.61	NA	1.2

WELL CONCENTRATIONS
Former Shell Service Station
2101 Park Boulevard
Oakland, CA
Wic #204-5508-1206

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)
S-3	03/29/1999	5400	NA	530	62	400	1100	45	NA	13.54	4.61	8.93	NA	1.5
S-3	06/30/1999	5890	NA	589	83.4	406	1710	<50.0	NA	13.54	3.58	9.96	NA	1.5
S-3	09/30/1999	1930	NA	514	13.2	185	319	<50.0	NA	13.54	5.02	8.52	NA	1.6
S-3	12/29/1999	4500	NA	483	23.9	324	572	<62.5	NA	13.54	5.32	8.22	NA	2.1
S-3	03/07/2000	1940	NA	346	10.5	65.1	74.8	<50.0	NA	13.54	6.72	6.82	NA	0.88
S-3	06/01/2000	5200	NA	714	33.6	325	551	<50.0	NA	13.54	5.40	8.14	NA	1.8
S-3	**09/28/2000**	**2690**	**NA**	**527**	**20.6**	**153**	**141**	**165**	**2.53**	**13.54**	**5.55**	**7.99**	**NA**	**1.4**

Abbreviations

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

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

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

MTBE = methyl-tertiary-butyl ether

TOC - Top of Casing Elevation

SPH – Separate-Phase Hydrocarbons

GW – Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

ppm = parts per million

msl = Mean sea level

ft = Feet

< n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

WELL CONCENTRATIONS
Former Shell Service Station
2101 Park Boulevard
Oakland, CA
Wic #204-5508-1206

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)

Note

(a) = The MTBE was analyzed by EPA method 8260 one day past hold time. The MTBE value did not confirm therefore, all MTBE results at this site should be considered estimated.

Sequoia
Analytical

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

23 October, 2000

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

RE: 2101 Park Blvd.
Sequoia Report: MJI0696

Enclosed are the results of analyses for samples received by the laboratory on 09/29/00 10:59. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for 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: 2101 Park Blvd.	
1680 Rogers Avenue	Project Number: 2101 Park Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/23/00 14:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-3	MJI0696-01	Water	09/28/00 12:45	09/29/00 10:59

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: 2101 Park Blvd.	
1680 Rogers Avenue	Project Number: 2101 Park Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/23/00 14:03

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
S-3 (MJI0696-01) Water Sampled: 09/28/00 12:45 Received: 09/29/00 10:59									
Purgeable Hydrocarbons	**2690**	500	ug/l	10	0J04001	10/04/00	10/04/00	DHS LUFT	P-01
Benzene	**527**	5.00	"	"	"	"	"	"	
Toluene	**20.6**	5.00	"	"	"	"	"	"	
Ethylbenzene	**153**	5.00	"	"	"	"	"	"	
Xylenes (total)	**141**	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	**165**	25.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*116 %*		*70-130*		"	"	"	

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 2101 Park Blvd.	
1680 Rogers Avenue	Project Number: 2101 Park Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/23/00 14:03

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (MJI0696-01) Water Sampled: 09/28/00 12:45 Received: 09/29/00 10:59									
Total Dissolved Solids	**972**	10.0	mg/l	1	0J05021	10/04/00	10/06/00	EPA 160.1	

Sequoia Analytical

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

Blaine Tech Services (Shell)	Project: 2101 Park Blvd.	
1680 Rogers Avenue	Project Number: 2101 Park Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/23/00 14:03

MTBE Confirmation by EPA Method 8260B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (MJI0696-01) Water Sampled: 09/28/00 12:45 Received: 09/29/00 10:59									
Methyl tert-butyl ether	**2.53**	2.00	ug/l	1	0100047	10/12/00	10/12/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*76.0-114*		"	"	"	"	

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San Jose CA, 95112	Project Manager: Nick Sudano	10/23/00 14:03

Anions by EPA Method 300.0

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (MJ10696-01) Water Sampled: 09/28/00 12:45 Received: 09/29/00 10:59									
Nitrate as N	ND	1.00	mg/l	5	0100449	10/18/00	10/18/00	EPA 300.0	HT-01
Sulfate as SO4	**2.03**	1.00	"	1	"	"	10/18/00	"	

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San Jose CA, 95112	Project Manager: Nick Sudano	10/23/00 14:03

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 0J04001 - EPA 5030B [P/T]										
Blank (0J04001-BLK1)				Prepared & Analyzed: 10/04/00						
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	*9.74*		"	*10.0*		*97.4*	*70-130*			
LCS (0J04001-BS1)				Prepared & Analyzed: 10/04/00						
Purgeable Hydrocarbons	237	50.0	ug/l	250		94.8	70-130			
Surrogate: a,a,a-Trifluorotoluene	*14.6*		"	*10.0*		*146*	*70-130*			*S-02*
Matrix Spike (0J04001-MS1)	**Source: MJI0676-10**			Prepared & Analyzed: 10/04/00						
Purgeable Hydrocarbons	249	50.0	ug/l	250	ND	99.6	60-140			
Surrogate: a,a,a-Trifluorotoluene	*11.6*		"	*10.0*		*116*	*70-130*			
Matrix Spike Dup (0J04001-MSD1)	**Source: MJI0676-10**			Prepared & Analyzed: 10/04/00						
Purgeable Hydrocarbons	246	50.0	ug/l	250	ND	98.4	60-140	1.21	25	
Surrogate: a,a,a-Trifluorotoluene	*15.3*		"	*10.0*		*153*	*70-130*			*S-02*

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San Jose CA, 95112	Project Manager: Nick Sudano	10/23/00 14:03

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0J05021 - General Preparation										
Blank (0J05021-BLK1)				Prepared: 10/04/00 Analyzed: 10/06/00						
Total Dissolved Solids	ND	10.0	mg/l							
LCS (0J05021-BS1)				Prepared: 10/04/00 Analyzed: 10/06/00						
Total Dissolved Solids	500	10.0	mg/l	500		100	80-120			
Matrix Spike (0J05021-MS1)		Source: MJI0637-13		Prepared: 10/04/00 Analyzed: 10/06/00						
Total Dissolved Solids	844	20.0	mg/l	500	434	82.0	80-120			
Matrix Spike Dup (0J05021-MSD1)		Source: MJI0637-13		Prepared: 10/04/00 Analyzed: 10/06/00						
Total Dissolved Solids	880	20.0	mg/l	500	434	89.2	80-120	4.18	20	

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San Jose CA, 95112	Project Manager: Nick Sudano	10/23/00 14:03

MTBE Confirmation by EPA Method 8260B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0100047 - EPA 5030B [P/T]										
Blank (0100047-BLK1)				Prepared & Analyzed: 10/10/00						
Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*48.7*		"	*50.0*		*97.4*	*76.0-114*			
Blank (0100047-BLK2)				Prepared & Analyzed: 10/12/00						
Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*43.4*		"	*50.0*		*86.8*	*76.0-114*			
LCS (0100047-BS1)				Prepared & Analyzed: 10/10/00						
Methyl tert-butyl ether	52.8	2.00	ug/l	50.0		106	70.0-130			
Surrogate: 1,2-Dichloroethane-d4	*52.3*		"	*50.0*		*105*	*76.0-114*			
LCS (0100047-BS2)				Prepared & Analyzed: 10/12/00						
Methyl tert-butyl ether	43.1	2.00	ug/l	50.0		86.2	70.0-130			
Surrogate: 1,2-Dichloroethane-d4	*43.7*		"	*50.0*		*87.4*	*76.0-114*			
Matrix Spike (0100047-MS1)		**Source: L010072-10**		Prepared & Analyzed: 10/10/00						
Methyl tert-butyl ether	50.5	2.00	ug/l	50.0	ND	101	60.0-140			
Surrogate: 1,2-Dichloroethane-d4	*50.8*		"	*50.0*		*102*	*76.0-114*			
Matrix Spike Dup (0100047-MSD1)		**Source: L010072-10**		Prepared & Analyzed: 10/10/00						
Methyl tert-butyl ether	51.1	2.00	ug/l	50.0	ND	102	60.0-140	0.985	25.0	
Surrogate: 1,2-Dichloroethane-d4	*52.1*		"	*50.0*		*104*	*76.0-114*			

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1680 Rogers Avenue	Project Number: 2101 Park Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/23/00 14:03

Anions by EPA Method 300.0 - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0100449 - General Preparation										
Blank (0100449-BLK1)				Prepared & Analyzed: 10/18/00						
Nitrate as N	ND	0.200	mg/l							
Sulfate as SO4	ND	1.00	"							
LCS (0100449-BS1)				Prepared & Analyzed: 10/18/00						
Nitrate as N	10.7	0.200	mg/l	10.0		107	80-120			
Sulfate as SO4	10.1	1.00	"	10.0		101	80-120			
Matrix Spike (0100449-MS1)		**Source: P010450-02**		Prepared & Analyzed: 10/18/00						
Nitrate as N	25.8	1.00	mg/l	25.0	ND	100	75-125			
Sulfate as SO4	54.5	5.00	"	25.0	29.1	102	75-125			
Matrix Spike Dup (0100449-MSD1)		**Source: P010450-02**		Prepared & Analyzed: 10/18/00						
Nitrate as N	26.0	1.00	mg/l	25.0	ND	101	75-125	0.772	20	
Sulfate as SO4	54.2	5.00	"	25.0	29.1	100	75-125	0.552	20	

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1680 Rogers Avenue	Project Number: 2101 Park Blvd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/23/00 14:03

Notes and Definitions

HT-01	This sample was received beyond the EPA recommended holding time.
P-01	Chromatogram Pattern: Gasoline C6-C12
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
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

BLAINE TECH SERVICES INC

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0556

CHAIN OF CUSTODY 000928-Z2

CLIENT Equiva Karen Petryna

SITE 2101 Park Blvd.
Oakland, CA

SAMPLE ID		MATRIX (S = SOIL, W = H2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH-diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	Nitrate	Sulfate and TDS	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
S-3	12:45 9-28	W	5	mixed		X	X					X	X	Confirm MTBE by 8260 at S-3			010 59

LAB SEQUOIA DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION
☐ LIA
☐ OTHER MJI0696

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 97088251

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLING COMPLETED	DATE	TIME
	9-28-00	1300

SAMPLING PERFORMED BY Aidan Metzger

RESULTS NEEDED NO LATER THAN As contracted

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Aidan Metzger	9/29/00	9:15		9/29/00	9:15
	9/29/00			9/29/00	10 59

SHIPPED VIA

DATE SENT	TIME SENT	COOLER #

WELL GAUGING DATA

Project # 000928-Z2 Date 9-28-00 Client EQUIVA

Site #204-5508-1206 / 2101 Park Blvd, Oakland, CA

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	D.O.	
S-1	2					3.82	15.90		1.7	1
S-2	2	Removed O.R.C.'s to guage				6.11	17.20		5.3	2
* S-3	2	Removed O.R.C.'s to sample				5.55	15.19		1.4	3

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000928-Z2	Site: #204-5508-1206
Sampler: Aidan M.	Date: 9-28-00
Well I.D.: ~~MW~~ S-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 15.19	Depth to Water: 5.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method:
- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other ____

Sampling Method:
- Bailer
- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: ____

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

No (Gals.) X Purge = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1240	72.9	7.4	1722	>200	~	
			Total Alkalinity = 3 drops		68 grains/gal 1155 mg/L	
			Ferrous Iron =		2.0	

Did well dewater? Yes (No)	Gallons actually evacuated: Ø
Sampling Time: 1245	Sampling Date: 9-28-00
Sample I.D.: S-3	Laboratory: (Sequoia) Columbia Other ____
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D	Other: Nitrate, Sulfate, T.D.S.
EB I.D. (if applicable):	Duplicate I.D. (if applicable):
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
* D.O. (if req'd): (Pre-purge) 1.4 mg/L	Post-purge: mg/L
* O.R.P. (if req'd): (Pre-purge) -95 mV	Post-purge: mV

11/06/00

EXPLANATION

- S-1 — Monitoring well location (Enviros - 06/15/95)
- S-B — Soil boring location (Enviros - 05/16/95)
- EB-1 — Proposed soil boring location
- Groundwater flow direction
- 8.00 — Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred

Well
ELEV
Benzene
MTBE

- Well designation
- Groundwater elevation, in feet above msl
- 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

NEWTON AVENUE

PARK BOULEVARD

second generation waste oil tank

first generation waste oil tank

S-L

planter

existing Goodyear building location

second generation dispenser islands

S-1
8.11
<0.50 - 3/12/98
<2.5 - 3/12/98

S-3
7.99
527
(2.53)

2690 gl

S-D

S-G

third generation USTs

7.50

7.50

S-H

first generation dispenser island

second generation USTs

6.50

6.50

S-J

S-I

S-C

S-B

planter

EB-1

S-F

S-2
5.95
<0.50 - 3/12/98
<2.5 - 3/12/98

10/29/00 advanced

first generation USTs

10/29/00 advanced

EB-2

0 15 30 60

Scale (ft)

FIGURE

1

Groundwater Elevation Contour Map

September 28, 2000

Former Shell Service Station

2101 Park Boulevard

Oakland, California

Incident #97088251

CAMBRIA

G:\OAKLAND\2101PARK\FIGURES\GWCONTMT.DWG