#13 (415)

CAMBRIA

August 8, 2001

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

0.3hr

AUG 13 2001

Re: **Second Quarter 2001 Monitoring Report**
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995746
Cambria Project #243-0897-002

• Should also be aware of TPHg concentrations — conc. elevated sitewide

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.

SECOND QUARTER 2001 ACTIVITIES

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

Joint sampling and gauging of the Shell-branded site, and the adjacent Chevron site were coordinated with Gettler Ryan Inc. in the second quarter 2001. The adjacent BP Oil Company site is gauged and sampled annually only in the first quarter.

Dual-Phase Vacuum Extraction (DVE): On May 23, and June 18, 2001 Advanced Cleanup Technologies Inc. of Benicia, California conducted eight-hour mobile DVE events at the site using a vacuum truck. DVE is the process of applying high vacuum through an airtight well seal to simultaneously extract soil vapors from the vadose zone and enhance groundwater extraction from the saturated zone. Mobile DVE uses a vacuum truck to create the vacuum and contain extracted fluids.

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

DVE was performed on well S-2 and tank backfill BW-A (Figure 1). After extracting groundwater and vapors from S-2 for the majority of the eight-hour event, the remaining capacity of the truck was filled with groundwater from well BW-A. Since April 2001, DVE has extracted approximately 7,188 gallons of groundwater from wells S-2 and BW-A, and removed an estimated 1.74 pounds of total petroleum hydrocarbons as gasoline, and 0.79 pounds of methyl tertiary-butyl ether (Tables 2 and 3).

Vacuum influence from extraction well S-2 has not been observed in tank-backfill well BW-A. It may be that vacuum from S-2 is transmitted throughout the porous, pea-gravel, tank back-fill material within the tank-pit area before it can reach BW-A. All other site wells are located at least three times as far away as BW-A, and observable vacuum influence from S-2 to these wells is unlikely. The DVE effectiveness will be evaluated after subsequent monitoring events establish a trend in MTBE concentrations in S-2. Mass removal data from the DVE events are presented in Tables 2 and 3.

ANTICIPATED THIRD QUARTER 2001 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report. Cambria will continue to coordinate jointly with adjacent sites.

DVE: Cambria will coordinate monthly mobile DVE from wells S-2 and BW-A throughout the third quarter.

CLOSING

We appreciate the opportunity to work with you on this project. Please call James Loetterle at (510) 420-3336 if you have any questions or comments. (Lu Herly)

Sincerely,
Cambria Environmental Technology, Inc

James Loetterle
Staff Geologist

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

Tables: 1 - Groundwater Analytical Data – Bioattenuation Parameters
2 - Groundwater Extraction – Mass Removal Data
3 - Vapor Extraction – Mass Removal Data

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
Walter G. & Jeanette P Watters, 101 Jasmine Creek Dr., Corona Del Mar, CA 92665
J.T. & Elizabeth G. Watters, 600 Caldwell Road, Oakland, CA 94611

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07/25/01

Groundwater Elevation Contour Map

June 7, 2001

CAMBRIA

EAST 17TH STREET

BOND STREET

FOOTHILL BOULEVARD

HIGH STREET

10.00

15.00

20.00

25.00

C-1	25.45 220 2,500
C-2	18.13 3,400 1,000
C-3	19.47 16 30
C-4	16.89 75 340
C-5	19.00 <0.500 - 3/8/01 5.15 - 3/8/01
C-6	9.67 21 100
C-7	9.80 440 56
C-8	8.89 <0.500 - 3/8/01 <2.50 - 3/8/01
C-9	5.18 <0.500 - 3/8/01 <2.50 - 3/8/01
S-1	29.50 120 150
S-2	29.39 450 (19,000)
S-3	28.52 230 120
S-4	28.49 2,500 2,000
BW-A	NS <10 7,200
MW-2	NA <0.5 - 12/19/96 <10 - 12/19/96
MW-3	NA <0.5 7.7
MW-4	NA <0.5 - 12/19/96 <10 - 12/19/96
MW-5	NA 12,000 - 3/8/00 <5.0 - 3/8/00
MW-6	NA <0.5 - 12/19/96 <10 - 12/19/96
MW-7	NA 1.2 - 12/19/96 <10 - 12/19/96
MW-8	NA <0.5 - 12/19/96 <10 - 12/19/96
MW-9	NA <0.5 - 12/19/96 <10 - 12/19/96

0 25 50 100 200

SCALE 1:50 FEET

Groundwater Gradient Direction
(12/30/98 to 06/07/01)

EXPLANATION

- S-1 — Monitoring well location
- BW-A — Tank backfill well location
- MW-3 — Recovery well
- NA — Not available
- NS — Not surveyed
- → — Groundwater flow direction
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
- Well — 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

Basement presence based on field observations

FIGURE

1

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

G:\OAKLAND4411FOOTHILL\FIGURES\2QM01-MP.AI

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

Well ID	Date	Depth to Water (feet)	TPHg (ppb)	Motor Oil	Ferrous Iron	Nitrate as Nitroge	Sulfate	DO	ORP (millivolts)	Notes
				← (Concentrations in ppm) →						
S-1	03/16/98	6.00	26,000	---	1.9	<1.0	<1.0	5.3/3.7	158/155	
	06/23/98	6.31	<1,000	---	2.0	<1.0	5.9	3.8/2.4	117/94	
	09/01/98	9.17	26,000	---	4.5	<1.0	12	1.4/2.6	-85/-51	
	12/30/98	8.99	29,900	0.334	4.1	<1.0	6.2	1.6/2.0	-25/-62	
	03/30/99	6.10	14,200	0.279	0.880	0.115	6.10	1.2/1.8	-56/-39	
	06/14/99	7.94	20,200	---	1.30	<1.00	5.70	1.4/2.1	-72/-24	
	09/30/99	10.04	18,300	<0.500	1.20	5.41	<5.00	4.3/2.0	-350/-70	
	12/22/99	9.42	2,450	<0.500	0.0670	<1.00	12.1	1.80/2.30	-49/-142	
	03/09/00	6.21	1,230	---	0.12	<0.10	5.3	2.0/2.9	-81/-190	a
	06/20/00	9.18	755	<0.500	0.451	<1.00	14.8	2.0/2.4	-37/12	
	09/05/00	10.14	2,980	0.546	0.0291	<1.00	9.72	0.6/0.3	35/-70	
	12/04/00	10.10	399	---	0.0257	<1.00	10.2	8.6/9.8	-149/-204	
	03/08/01	5.84	2,940	---	0.559	0.52	7.91	NA/2.7	NA/-8	
	06/07/01	**8.80**	**10,000**	**---**	**0.15**	**<0.05**	**7.7**	**6.2/2.2**	**167/150**	
S-2	03/16/98	7.97	1,100	---	1.7	<1.0	17	7.0/4.3	147/149	
	06/23/98	8.20	720	---	4.3	<1.0	5.7	4.2/3.8	128/134	
	06/23/98	8.20	810	---	3.7	<1.0	5.4	4.2/3.8	128/134	duplicate
	09/01/98	9.85	<2,000	---	4.1	<1.0	7.8	1.9/1.6	-26/-11	
	12/30/98	9.84	<5,000	---	1.9	<1.0	10	2.0/1.8	-54/-36	
	03/30/99	8.41	<2,000	---	<0.100	<0.100	8.51	2.1/1.8	-10/-08	
	06/14/99	9.80	<1,000	---	1.40	<1.00	5.20	2.4/2.1	-121/-113	
	09/30/99	10.58	678	<0.500	0.260	5.36	14.0	5.1/4.8	-172/-42	
	12/22/99	10.13	316	<0.500	0.0540	<1.00	24.3	9.60/5.20	-90/-46	
	03/09/00	7.88	2,670	---	0.019	<0.10	6.3	7.6/5.0	58/504	
	06/20/00	10.27	<5,000	<0.500	0.499	<1.00	11.6	1.9/2.2	7/21	
	09/05/00	10.19	<5,000	<0.500	0.885	<1.00	9.36	0.5/1.6	-30/-50	
	12/04/00	10.30	<250	---	0.116	<1.00	15.9	10.6/9.4	68/505	
	03/08/01	8.57	<2,500	---	0.267	<0.5	11.2	NA/2.7	NA/112	
	06/07/01	**9.39**	**18,000**	**---**	**0.6**	**<0.05**	**11**	**1.1/2.0**	**110/97**	
S-3	03/16/98	5.75	29,000	---	3.8	<1.0	12	3.0/3.4	153/142	
	06/23/98	5.98	3,800	---	2.0	<1.0	8.9	4.2/2.0	119/121	

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

Well ID	Date	Depth to Water (feet)	TPHg (ppb)	Motor Oil	Ferrous Iron	Nitrate as Nitrogen	Sulfate	DO	ORP (millivolts)	Notes
				←		(Concentrations in ppm)	→			
	09/01/98	8.98	9,600	---	2.7	<1.0	7.3	1.9/2.8	57/35	
	09/01/98	8.98	9,200	---	2.2	<1.0	7.2	1.9/2.8	57/35	duplicate
	12/30/98	9.11	7,660	---	5.2	<1.0	5.9	1.8/1.6	75/54	
	03/30/99	6.95	2,070	---	<0.100	0.689	17.5	1.3/1.5	72/61	
	06/14/99	8.85	1,250	---	4.10	<1.00	15.0	1.6/1.2	-118/-108	
	09/30/99	9.66	8,270	<0.500	0.440	5.89	7.69	3.5/2.8	-140/-70	
	12/22/99	9.50	9,530	<0.500	1.30	<1.00	5.65	0.98/0.80	16/-57	
	03/09/00	6.25	2,290	---	0.046	4.9	16	1.0/1.4	-163/-110	a
	06/20/00	9.67	5,570	<0.500	0.639	6.92	19.8	1.8/2.0	-102/-92	
	09/05/00	9.49	6,930	<0.500	2.53	<1.00	5.36	1.1/1.9	-24/-47	
	12/04/00	9.23	8,390	---	2.77	<1.00	<5.00	1.1/15	-175/-159	
	03/08/01	8.17	19,400	---	1.92	<0.5	5.01	1.1/NA	-22/-48	
	06/07/01	**8.78**	**12,000**	**---**	**1.4**	**<0.05**	**<2.0**	**0.8/0.9**	**162/104**	
S-4	03/31/00	8.92	20,900	---	3.23	<1.00	<5.00	1.8/1.2	-25/-37	
	06/20/00	8.77	19,500	<0.500	0.814	<1.00	11.2	2.7/2.9	3/-78	
	09/05/00	10.57	5,760	<0.500	5.62	<1.00	15.9	1.3/0.3	-90/-74	
	12/04/00	10.67	3,990	---	6.47	<1.00	14.1	1.1/1.0	-224/-202	
	03/08/01	8.44	20,100	---	6.58	<0.5	<5	1.0/0.9	-103/-99	
	06/07/01	**10.57**	**11,000**	**---**	**8.8**	**<0.05**	**3.5**	**0.7/0.6**	**77/25**	
Ideal Aerobic Degradation Relationship:					Direct	Inverse	Inverse	Inverse	Direct	
Observed Relationship:					Inconclusive	Inverse	Moderately inverse	Moderately inverse	Inconclusive	

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

Well ID	Date	Depth to Water (feet)	TPHg (ppb)	Motor Oil ←	Ferrous Iron	Nitrate as Nitrogen (Concentrations in ppm)	Sulfate	DO →	ORP (millivolts)	Notes

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
Motor Oil = Extractable hydrocarbons as motor oil by modified EPA Method 8015
DO = Dissolved oxygen (pre-purge / post-purge)
ORP = Oxidation reduction potential (pre-purge / post-purge)
ppb = Parts per billion
ppm = Parts per million
<n = Below detection limit of n units
Ferrous iron by modified EPA Method 200.7
Nitrate as nitrate and sulfate by EPA Method 300.0
NA = Not available

a = TPHg result was generated out of hold time

Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995746, 4411 Foothill Boulevard, Oakland, California

					TPPH			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
04/30/01	S-2	300	300	03/08/01	<2,500	0.00313	0.00313	318	0.00080	0.00080	**17,500**	0.04381	0.04381
05/23/01	S-2	400	700	03/08/01	<2,500	0.00417	0.00730	318	0.00106	0.00186	**17,500**	0.05841	0.10222
06/18/01	S-2	475	1,175	03/08/01	<2,500	0.00495	0.01226	318	0.00126	0.00312	**17,500**	0.06936	0.17158
07/23/01	S-2	500	1,675	03/08/01	<2,500	0.00522	0.01747	318	0.00133	0.00444	**17,500**	0.07301	0.24459
04/21/00	BW-A	2,013	2,013	03/08/01	<2,500	0.02100	0.02100	46.6	0.00078	0.00078	**11,700**	0.19653	0.19653
04/28/00	BW-A	2,000	4,013	03/08/01	<2,500	0.02086	0.04186	46.6	0.00078	0.00156	**11,700**	0.19526	0.39179
06/18/01	BW-A	2,000	6,013	03/08/01	<2,500	0.02086	0.06272	46.6	0.00078	0.00234	**11,700**	0.19526	0.58704
07/23/01	BW-A	10	6,023	03/08/01	<2,500	0.00010	0.06282	46.6	0.00000	0.00234	**11,700**	0.00098	0.58802
Total Gallons Extracted:			**7,698**		**Total Pounds Removed:**		**0.08029**			**0.00679**			**0.83261**
					Total Gallons Removed:		**0.01316**			**0.00093**			**0.13429**

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
µg/L = Micrograms per liter
ppb = Parts per billion, equivalent to µg/L
L = Liter
gal = Gallon
g = Gram
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10^6µg) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
TPPH, benzene analyzed by EPA Method 8015/8020
MTBE analyzed by EPA Method 8260 in bold font, all other MTBE analyzed by EPA Method 8020
Concentrations based on most recent groundwater monitoring results
If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.
Groundwater extracted by vacuum trucks provided by ACTI. Water disposed of at a Martinez Refinery.

Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995746, 4411 Foothill Boulevard, Oakland, California

					TPPH			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)

Table 3: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995746, 4411 Foothill Boulevard, Oakland, Californ

							TPPH		Benzene		MTBE	
		Interval Hours of	System Flow	Hydrocarbon Concentrations			TPHg Removal	Cumulative TPHg	Benzene Removal	Cumulative Benzene	MTBE Removal	Cumulative MTBE
Date	Well ID	Operation (hours)	Rate (CFM)	TPHg	Benzene	MTBE	Rate (#/hour)	Removed (#)	Rate (#/hour)	Removed (#)	Rate (#/hour)	Removed (#)
				(Concentrations in ppmv)								
04/30/01	S-2	6.50	1.2	2,500	20	120	0.040	0.261	0.000	0.002	0.002	0.013
05/23/01	S-2	7.00	5.0	3,000	60	38	0.201	1.664	0.004	0.027	0.003	0.031
06/18/01	S-2	6.50	2.8				0.000	1.664	0.000	0.027	0.000	0.031
Total Pounds Removed:							**TPHg =**	**1.664**	**Benzene =**	**0.027**	**MTBE =**	**0.031**

Abbreviations and Notes:

CFM = Cubic feet per minute

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12) by modified EPA Method 8015 in 1 liter tedlar bag samples

ppmv = Parts per million by volume

= Pounds

NA = Not available

TPHG, Benzene, and MTBE analyzed by EPA Method8260 in 1 liter tedlar bag samples

TPHg / Benzene / MTBE removal rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.

(Rate = Concentration (ppmv) x system flow rate (cfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE) x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.

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

July 10, 2001

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

Second Quarter 2001 Groundwater Monitoring at
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, CA

Monitoring performed on June 7, 2001

Groundwater Monitoring Report **010607-M-1**

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 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,

Nick Sudano
Project Coordinator

NS/mb

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

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

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

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	12/18/1992	41,000	NA	3,100	1,100	1,200	8,700	NA	NA	38.31	9.06	NA	NA
S-1	05/26/1993	39,000	6,000	1,300	4,700	1,500	7,800	NA	NA	38.31	NA	NA	NA
S-1	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	12.13	26.18	NA
S-1	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	8.89	29.42	NA
S-1	06/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	8.80	29.51	NA
S-1	09/21/1993	34,000	5,900	480	5,000	3,800	18,000	NA	NA	38.31	10.40	27.91	NA
S-1	12/14/1993	25,000	13,000	1,100	5,000	2,200	11,000	NA	NA	38.31	9.66	28.65	NA
S-1	03/17/1994	57,000	1,600	1,300	5,400	2,100	11,000	NA	NA	38.31	8.20	30.11	NA
S-1	06/16/1994	57,000	3,000	1,600	6,000	2,000	13,000	NA	NA	38.31	9.41	28.90	NA
S-1	09/22/1994	39,000	ND	1,300	2,100	1,500	7,100	NA	NA	38.31	11.13	27.18	NA
S-1 a	12/15/1994	30,000	3,100	1,100	4,700	1,600	10,000	NA	NA	38.31	7.15	31.16	NA
S-1 a, b	03/30/1995	30,000	3,100	1,400	4,000	1,500	11,000	NA	NA	38.31	6.09	32.22	NA
S-1	06/2019/95	28,000	2,100	1,100	2,300	1,100	8,300	NA	NA	38.31	7.30	31.01	NA
S-1	09/20/1995	40,000	2,600	840	3,600	1,300	8,600	NA	NA	38.31	10.02	28.29	NA
S-1 a	12/06/1995	38,000	6,400	920	3,200	1,500	9,400	NA	NA	38.31	11.64	26.67	NA
S-1	03/21/1996	48,000	NA	700	4,200	1,100	8,600	NA	NA	38.31	6.87	31.44	NA
S-1	09/06/1996	41,000	4,100	830	2,600	2,100	12,000	<250	NA	38.31	10.50	27.81	NA
S-1	12/19/1996	40,000	2,500	540	3,100	1,900	9,800	920	NA	38.31	8.24	30.07	NA
S-1	03/17/1997	42,000	4,700	610	2,700	1,700	11,000	3,500	NA	38.31	7.26	31.05	NA
S-1	06/11/1997	28,000	4,000	540	960	1,300	5,300	220	NA	38.31	10.69	27.62	NA
S-1 (D)	06/11/1997	30,000	3,900	580	1,000	1,400	5,400	<125	NA	38.31	10.69	27.62	NA
S-1	09/17/1997	27,000	4,400	310	1,200	1,900	9,000	170	NA	38.31	10.26	28.05	NA
S-1 (D)	09/17/1997	27,000	4,400	270	1,200	1,900	9,000	170	NA	38.31	10.26	28.05	NA
S-1	12/11/1997	21,000	3,400	350	820	1,500	6,500	<125	NA	38.31	6.96	31.35	NA
S-1	03/16/1998	25,000	2,500	250	820	670	5,000	<125	NA	38.31	6.00	32.31	NA

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

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1 (D)	03/16/1998	26,000	NA	250	840	720	5,100	<125	NA	38.31	6.00	32.31	5.3/3.7
S-1	06/23/1998	<1,000	230	280	14	23	15	6,100	7,800	38.31	6.31	32.00	3.8/2.4
S-1	09/01/1998	26,000	2,300	370	620	1,300	33	1,400	120	38.31	9.17	29.14	1.4/2.6
S-1	12/30/1998	29,900	1,970	174	732	1,680	5,740	182	NA	38.31	8.99	29.32	1.6/2.0
S-1	03/30/1999	14,200	1,150	1,360	260	1,070	3,580	<500	90.0	38.31	6.10	32.21	1.2/1.8
S-1	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	38.31	7.84	30.47	NA
S-1	06/14/1999	20,200	4,280	135	407	825	5,000	705	NA	38.31	7.94	30.37	1.4/2.1
S-1	09/30/1999	18,300	3,120	189	531	1,250	4,740	322	NA	38.31	10.04	28.27	4.3/2.0
S-1	12/22/1999	2,450	444a	50.2	97.5	139	458	133	NA	38.31	9.42	28.89	1.8/2.3
S-1	03/09/2000	1,230d	1,200a	21.2d	115d	116d	411d	45.1d	NA	38.30	6.21	32.09	2.0/2.9
S-1	06/20/2000	755	352a	26.0	48.4	43.1	230	71.5	NA	38.30	9.18	29.12	2.0/2.4
S-1	09/05/2000	2,980	783a	43.5	117	168	871	192	NA	38.30	10.14	28.16	0.6/0.3
S-1	12/04/2000	399	238a	5.34	14.6	36.2	106	24.9	NA	38.30	10.10	28.20	8.6/9.8
S-1	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	38.30	9.22	29.08	NA
S-1	03/08/2001	2,940	1,390a	49.6	52.9	21.8	749	87.6	NA	38.30	5.84	32.46	2.7e
S-1	**06/07/2001**	**10,000**	**1,400**	**120**	**370**	**680**	**2,400**	**150**	**NA**	**38.30**	**8.80**	**29.50**	**6.2/2.2**
S-2	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.51	29.28	NA
S-2	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.51	29.28	NA
S-2	06/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.57	29.22	NA
S-2	06/29/1993	1,300	NA	290	35	38	130	NA	NA	38.79	NA	NA	NA
S-2	09/21/1993	3,300	NA	870	24	190	120	NA	NA	38.79	10.54	28.25	NA
S-2	12/14/1993	1,300	NA	400	16	36	27	NA	NA	38.79	9.76	29.03	NA
S-2	03/17/1994	4,500	NA	610	27	92	110	NA	NA	38.79	9.92	28.87	NA
S-2 (D)	03/17/1994	4,000	NA	610	26	93	120	NA	NA	38.79	9.92	28.87	NA

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

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	06/16/1994	2,800	NA	690	45	97	140	NA	NA	38.79	10.11	28.68	NA
S-2	09/22/1994	4,000	NA	630	94	64	230	NA	NA	38.79	10.51	28.28	NA
S-2	12/15/1994	1,600	NA	450	300	67	130	NA	NA	38.79	9.12	29.67	NA
S-2 b	03/30/1995	8,200	NA	2,800	190	240	700	NA	NA	38.79	7.86	30.93	NA
S-2	06/20/1995	9,600	NA	2,600	160	170	500	NA	NA	38.79	9.51	29.28	NA
S-2	09/20/1995	4,200	NA	920	45	98	140	NA	NA	38.79	10.06	28.73	NA
S-2	12/06/1995	<5,000	NA	790	67	64	130	NA	NA	38.79	10.52	28.27	NA
S-2	03/21/1996	3,700	NA	850	45	96	170	NA	NA	38.79	8.60	30.19	NA
S-2	09/06/1996	2,400	NA	500	33	39	84	490	NA	38.79	10.50	28.29	NA
S-2	12/19/1996	1,200	NA	330	15	24	31	430	NA	38.79	9.40	29.39	NA
S-2	03/17/1997	4,100	NA	780	42	110	120	2,200	NA	38.79	9.82	28.97	NA
S-2	06/11/1997	760	NA	120	<5.0	7.0	7.6	900	NA	38.79	10.18	28.61	NA
S-2	09/17/1997	1,500	NA	230	8.6	40	27	480	NA	38.79	9.90	28.89	NA
S-2	12/11/1997	1,300	NA	240	15	33	57	280	NA	38.79	8.27	30.52	NA
S-2	03/16/1998	1,100	NA	830	48	<10	<10	4,700	4,800	38.79	7.97	30.82	7.0/4.3
S-2	06/23/1998	720	NA	46	6.8	50	68	50	8.8	38.79	8.20	30.59	4.2/3.8
S-2 (D)	06/23/1998	810	NA	49	7.1	50	70	49	8.8	38.79	8.20	30.59	4.2/3.8
S-2	09/01/1998	<2,000	NA	170	<20	<20	<20	9,300	12,000	38.79	9.85	28.94	1.9/1.6
S-2	12/30/1998	<5,000	NA	369	<50	<50	<50	14,300	NA	38.79	9.84	28.95	2.0/1.8
S-2	03/30/1999	<2,000	NA	234	<20.0	27.4	36.9	49,200	53,000	38.79	8.41	30.38	2.1/1.8
S-2	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	38.79	8.67	30.12	NA
S-2	06/14/1999	<1,000	NA	175	<10.0	<10.0	11.1	67,500	NA	38.79	9.80	28.99	NA
S-2	09/30/1999	678	177a	135	8.22	14.9	25.8	17,100	17,000c	38.79	10.58	28.21	5.1/4.8
S-2	12/22/1999	316	142a	55.8	10.1	5.26	10.4	9,410	8,810	38.79	10.13	28.66	9.6/5.2
S-2	03/09/2000	2,670	630a	1,190d	62.7	84.1	125	29,200d	31,400c	38.78	7.88	30.90	7.6/5.0

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

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	06/20/2000	<5,000	401a	348	<50.0	50.4	127	35,800	33,900c	38.78	10.27	28.51	1.9/2.2
S-2	09/05/2000	<5,000	373a	106	<50.0	<50.0	<50.0	25,800	37,100c	38.78	10.19	28.59	0.5/1.6
S-2	12/04/2000	<250	1,730a	4.37	<2.50	<2.50	<2.50	4,500	5,130c	38.78	10.30	28.48	10.6/9.4
S-2	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	38.78	9.66	29.12	NA
S-2	03/08/2001	<2,500	<51.3	318	45.7	53.5	88.5	15,500	17,500	38.78	8.57	30.21	2.7e
S-2	**06/07/2001**	**18,000**	**11,000**	**450**	**170**	**390**	**2,200**	**13,000**	**18,000**	**38.78**	**9.39**	**29.39**	**1.1/2.0**
S-3	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.45	28.88	NA
S-3	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.36	28.97	NA
S-3	01/19/1900	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.41	28.92	NA
S-3	06/29/1993	29,000	NA	1,500	1,800	950	6,200	NA	NA	37.33	NA	NA	NA
S-3	09/21/1993	15,000	NA	900	2,200	2,600	11,000	NA	NA	37.33	10.08	27.25	NA
S-3	12/94/1993	20,000	NA	1,100	2,400	1,800	8,500	NA	NA	37.33	8.80	28.53	NA
S-3	03/17/1994	14,000	NA	580	190	750	1,700	NA	NA	37.33	8.34	28.99	NA
S-3	06/16/1994	20,000	NA	700	690	1,400	4,100	NA	NA	37.33	9.12	28.21	NA
S-3 (D)	06/16/1994	19,000	NA	680	560	1,300	3,700	NA	NA	37.33	NA	NA	NA
S-3	09/22/1994	24,000	NA	630	1,100	1,400	5,700	NA	NA	37.33	10.27	27.06	NA
S-3 (D)	09/22/1994	25,000	NA	720	1,100	1,500	6,100	NA	NA	37.33	NA	NA	NA
S-3	12/15/1994	18,000	NA	520	800	1,100	4,200	NA	NA	37.33	7.81	29.52	NA
S-3 (D)	12/15/1994	23,000	NA	1,000	1,900	2,000	8,600	NA	NA	37.33	NA	NA	NA
S-3 b	03/30/1995	8,800	NA	360	730	700	3,700	NA	NA	37.33	7.06	30.27	NA
S-3 (D)	03/30/1995	7,600	NA	330	570	600	2,600	NA	NA	37.33	NA	NA	NA
S-3	06/20/1995	9,600	NA	510	170	960	1,700	NA	NA	37.33	8.15	29.18	NA
S-3 (D)	06/20/1995	9,800	NA	500	170	950	1,700	NA	NA	37.33	NA	NA	NA
S-3	09/20/1995	21,000	NA	400	560	1,300	4,600	NA	NA	37.33	9.32	28.01	NA

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

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	12/06/1995	24,000	NA	630	1,400	1,400	6,000	NA	NA	37.33	10.53	26.80	NA
S-3 (D)	12/06/1995	22,000	NA	630	1,200	1,400	5,500	NA	NA	37.33	NA	NA	NA
S-3	03/21/1996	9,100	NA	290	110	490	1,600	NA	NA	37.33	7.32	30.01	NA
S-3 (D)	03/21/1996	11,000	NA	310	250	540	2,100	NA	NA	37.33	NA	NA	NA
S-3	09/06/1996	15,000	NA	440	300	1,100	3,000	500	NA	37.33	10.10	27.23	NA
S-3 (D)	09/06/1996	11,000	NA	490	170	820	1,500	700	NA	37.33	NA	NA	NA
S-3	12/19/1996	12,000	NA	600	380	850	2,500	380	NA	37.33	8.36	28.97	NA
S-3 (D)	12/19/1996	12,000	NA	590	380	830	2,500	540	NA	37.33	8.36	28.97	NA
S-3	03/17/1997	12,000	NA	520	140	740	1,400	320	NA	37.33	8.57	28.76	NA
S-3 (D)	03/17/1997	9,600	NA	500	100	680	1,100	<250	NA	37.33	8.57	28.76	NA
S-3	06/11/1997	9,600	NA	510	94	740	1,100	410	NA	37.33	9.26	28.07	NA
S-3	09/17/1997	21,000	NA	140	560	1,800	7,200	130	NA	37.33	9.62	27.71	NA
S-3	12/11/1997	24,000	NA	530	970	1,600	6,900	950	NA	37.33	7.34	29.99	NA
S-3 (D)	12/11/1997	29,000	NA	520	1,000	1,600	7,300	970	NA	37.33	7.34	29.99	NA
S-3	03/16/1998	29,000	NA	840	810	1,700	6,000	<250	NA	37.33	5.75	31.58	3.0/3.4
S-3	06/23/1998	3,800	NA	90	220	240	1,400	<50	NA	37.33	5.98	31.35	4.2/2.0
S-3	09/01/1998	9,600	NA	480	120	870	1,800	490	<50	37.33	8.98	28.35	1.9/2.8
S-3 (D)	09/01/1998	9,200	NA	420	110	800	1,700	110	<50	37.33	8.98	28.35	1.9/2.8
S-3	12/30/1998	7,660	NA	240	103	410	834	64.9	NA	37.33	9.11	28.22	1.8/1.6
S-3	03/30/1999	2,070	NA	195	10.0	<5.00	48.6	354	64.6	37.33	6.95	30.38	1.3/1.5
S-3	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	37.33	7.48	29.85	NA
S-3	06/14/1999	1,250	NA	37.4	17.4	110	109	118	NA	37.33	8.85	28.48	NA
S-3	09/30/1999	8,270	2,020a	226	113	686	1,440	184	NA	37.33	9.66	27.67	3.5/2.8
S-3	12/22/1999	9,530	2,270a	207	132	603	1,450	616	NA	37.33	9.50	27.83	0.98/0.8
S-3	03/09/2000	2,290d	1,600a	84.5d	17.0d	104d	105d	29.3d	NA	37.30	6.25	31.05	1.0/1.4

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

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3	06/20/2000	5,570	2,900a	117	41.6	395	393	354	NA	37.30	9.67	27.63	1.8/2.0
S-3	09/05/2000	6,930	1,600a	127	85.5	354	535	509	NA	37.30	9.49	27.81	1.1/1.9
S-3	12/04/2000	8,390	1,460a	217	82.4	471	952	436	NA	37.30	9.23	28.07	1.1/1.5
S-3	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	37.30	9.23	28.07	NA
S-3	03/08/2001	19,400	1,720a	465	772	1,230	3,830	160	NA	37.30	8.17	29.13	1.1f
S-3	**06/07/2001**	**12,000**	**1,400**	**230**	**110**	**900**	**1,100**	**120**	**NA**	**37.30**	**8.78**	**28.52**	**0.8/0.9**
S-4	03/29/2000	NA	NA	NA	NA	NA	NA	NA	NA	39.06	8.37	30.69	NA
S-4	03/31/2000	20,900	5,780a	4,570	272	595	997	4,490	4,450c	39.06	8.92	30.14	1.8/1.2
S-4	06/20/2000	19,500	244a	4,590	309	723	1,290	3,740	NA	39.06	8.77	30.29	2.7/2.9
S-4	09/05/2000	5,760	1,670a	841	54.2	162	115	1,040	NA	39.06	10.57	28.49	1.3/0.3
S-4	12/04/2000	3,990	1,050a	949	<10.0	118	48.3	1,120	NA	39.06	10.67	28.39	1.1/1.0
S-4	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	39.06	10.64	28.42	NA
S-4	03/08/2001	20,100	5,840a	5,210	105	381	281	2,520	NA	39.06	8.44	30.62	1.0/0.9
S-4	**06/07/2001**	**11,000**	**3,500**	**2,500**	**86**	**370**	**170**	**2,000**	**NA**	**39.06**	**10.57**	**28.49**	**0.7/0.6**
BW-A	09/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	NA	2.3
BW-A	12/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.52	NA	2.2
BW-A	03/09/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.99	NA	1.5
BW-A	06/20/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.69	NA	2.4
BW-A	09/05/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.43	NA	1.0
BW-A	12/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.96	NA	1.3
BW-A	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.71	NA	NA
BW-A	03/08/2001	<2,500	1,370a	46.6	<25.0	<25.0	<25.0	10,600	11,700	NA	6.38	NA	0.9/1.4
BW-A	**06/07/2001**	**1,100**	**960**	**<10**	**<10**	**<10**	**17**	**7,200**	**NA**	**NA**	**9.82**	**NA**	**3.6/0.8**

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

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

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

TOB = Top of Box Elevation

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

n/n = Pre-purge / Post-purge

NA = Not applicable

Notes:

a = Chromatogram pattern indicates an unidentified hydrocarbon.

b = National Environmental Testing, Inc. (NET), analyzed within hold time but further dilutions were required and analyzed out of hold time.
NET suggests that these should be considered minimum concentrations.

c = Sample analyzed outside the EPA recommended holding times.

d = Result reported was generated out of hold time.

e = Post-purge DO reading.

f = Pre-purge DO reading.

Wells S-1 through S-4 surveyed February 3, 2000 by Virgil Chavez Land Surveying of Vallejo, California.

Sequoia
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June 27 , 2001

Nick Sudano
Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
RE: Equiva / P106126

Enclosed are the results of analyses for samples received by the laboratory on 06/07/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari

Angelee Cari
Client Services Representative

CA ELAP Certificate Number 2374

Sequoia Analytical

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Blaine Tech Services, Inc.	Project: Equiva	
1680 Rogers Ave.	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BW-A	P106126-01	Water	06/07/01 09:55	06/07/01 17:15
S-1	P106126-02	Water	06/07/01 11:20	06/07/01 17:15
S-2	P106126-03	Water	06/07/01 10:37	06/07/01 17:15
S-3	P106126-04	Water	06/07/01 11:55	06/07/01 17:15
S-4	P106126-05	Water	06/07/01 12:28	06/07/01 17:15

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1680 Rogers Ave.	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BW-A (P106126-01) Water Sampled: 06/07/01 09:55 Received: 06/07/01 17:15									
Gasoline	**1100**	1000	ug/l	20	1060237	06/11/01	06/11/01	EPA 8015M/8020M	
Benzene	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	**17**	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**7200**	50	"	"	"	"	"	"	A-01
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*65-135*		"	"	"	"	
S-1 (P106126-02) Water Sampled: 06/07/01 11:20 Received: 06/07/01 17:15									
Gasoline	**10000**	500	ug/l	10	1060237	06/11/01	06/11/01	EPA 8015M/8020M	
Benzene	**120**	5.0	"	"	"	"	"	"	
Toluene	**370**	5.0	"	"	"	"	"	"	
Ethylbenzene	**680**	5.0	"	"	"	"	"	"	
Xylenes (total)	**2400**	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**150**	25	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*65-135*		"	"	"	"	
S-2 (P106126-03) Water Sampled: 06/07/01 10:37 Received: 06/07/01 17:15									
Gasoline	**18000**	2500	ug/l	50	1060237	06/11/01	06/11/01	EPA 8015M/8020M	
Benzene	**450**	25	"	"	"	"	"	"	
Toluene	**170**	25	"	"	"	"	"	"	
Ethylbenzene	**390**	25	"	"	"	"	"	"	
Xylenes (total)	**2200**	25	"	"	"	"	"	"	
Methyl tert-butyl ether	**13000**	120	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.0 %*	*65-135*		"	"	"	"	

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1680 Rogers Ave.	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-3 (P106126-04) Water Sampled: 06/07/01 11:55 Received: 06/07/01 17:15									
Gasoline	**12000**	500	ug/l	10	1060236	06/11/01	06/11/01	EPA 8015M/8020M	
Benzene	**230**	5.0	"	"	"	"	"	"	
Toluene	**110**	5.0	"	"	"	"	"	"	
Ethylbenzene	**900**	5.0	"	"	"	"	"	"	
Xylenes (total)	**1100**	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**120**	25	"	"	"	"	"	"	QR-04
Surrogate: a,a,a-Trifluorotoluene		*115 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*65-135*		"	"	"	"	
S-4 (P106126-05) Water Sampled: 06/07/01 12:28 Received: 06/07/01 17:15									
Gasoline	**11000**	1000	ug/l	20	1060236	06/11/01	06/11/01	EPA 8015M/8020M	
Benzene	**2500**	10	"	"	"	"	"	"	
Toluene	**86**	10	"	"	"	"	"	"	
Ethylbenzene	**370**	10	"	"	"	"	"	"	
Xylenes (total)	**170**	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**2000**	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.3 %*	*65-135*		"	"	"	"	

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1680 Rogers Ave.	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BW-A (P106126-01) Water Sampled: 06/07/01 09:55 Received: 06/07/01 17:15									
Diesel (C10-C24)	**960**	50	ug/l	1	1060234	06/11/01	06/11/01	EPA 8015M-SVOA	
Surrogate: o-Terphenyl		*91.6 %*	*50-150*		"	"	"	"	
S-1 (P106126-02) Water Sampled: 06/07/01 11:20 Received: 06/07/01 17:15									
Diesel (C10-C24)	**1400**	50	ug/l	1	1060234	06/11/01	06/11/01	EPA 8015M-SVOA	
Surrogate: o-Terphenyl		*87.8 %*	*50-150*		"	"	"	"	
S-2 (P106126-03) Water Sampled: 06/07/01 10:37 Received: 06/07/01 17:15									
Diesel (C10-C24)	**11000**	50	ug/l	1	1060234	06/11/01	06/11/01	EPA 8015M-SVOA	
Surrogate: o-Terphenyl		*96.5 %*	*50-150*		"	"	"	"	
S-3 (P106126-04) Water Sampled: 06/07/01 11:55 Received: 06/07/01 17:15									
Diesel (C10-C24)	**1400**	50	ug/l	1	1060234	06/11/01	06/11/01	EPA 8015M-SVOA	
Surrogate: o-Terphenyl		*80.4 %*	*50-150*		"	"	"	"	
S-4 (P106126-05) Water Sampled: 06/07/01 12:28 Received: 06/07/01 17:15									
Diesel (C10-C24)	**3500**	50	ug/l	1	1060234	06/11/01	06/12/01	EPA 8015M-SVOA	
Surrogate: o-Terphenyl		*76.0 %*	*50-150*		"	"	"	"	

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1680 Rogers Ave.	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-1 (P106126-02) Water	**Sampled: 06/07/01 11:20**	**Received: 06/07/01 17:15**							
Ferrous Iron	**150**	100	ug/l	1	1060227	06/07/01	06/07/01	SM 3500 Fe D#4	
Nitrate as N	ND	50	"	"	1060522	06/08/01	06/20/01	EPA 353.2	
Nitrate/Nitrite as N	ND	50	"	"	1060521	"	06/08/01	"	
S-2 (P106126-03) Water	**Sampled: 06/07/01 10:37**	**Received: 06/07/01 17:15**							
Ferrous Iron	**600**	100	ug/l	1	1060227	06/07/01	06/07/01	SM 3500 Fe D#4	
Nitrate as N	ND	50	"	"	1060522	06/08/01	06/20/01	EPA 353.2	
Nitrate/Nitrite as N	ND	50	"	"	1060521	"	06/08/01	"	
S-3 (P106126-04) Water	**Sampled: 06/07/01 11:55**	**Received: 06/07/01 17:15**							
Ferrous Iron	**1400**	100	ug/l	1	1060227	06/07/01	06/07/01	SM 3500 Fe D#4	
Nitrate as N	ND	50	"	"	1060522	06/08/01	06/20/01	EPA 353.2	
Nitrate/Nitrite as N	ND	50	"	"	1060521	"	06/08/01	"	
S-4 (P106126-05) Water	**Sampled: 06/07/01 12:28**	**Received: 06/07/01 17:15**							
Ferrous Iron	**8800**	100	ug/l	1	1060227	06/07/01	06/07/01	SM 3500 Fe D#4	
Nitrate as N	ND	50	"	"	1060522	06/08/01	06/20/01	EPA 353.2	
Nitrate/Nitrite as N	ND	50	"	"	1060521	"	06/08/01	"	

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MTBE by EPA Method 8260A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-2 (P106126-03) Water Sampled: 06/07/01 10:37 Received: 06/07/01 17:15									
Methyl tert-butyl ether	**18000**	1000	ug/l	1000	1F21031	06/21/01	06/21/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*70-130*		"	"	"	"	

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San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

Anions by EPA Method 300.0

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-1 (P106126-02) Water	**Sampled: 06/07/01 11:20**	**Received: 06/07/01 17:15**							
Sulfate as SO4	**7.7**	2.0	mg/l	10	1060205	06/22/01	06/22/01	EPA 300.0	
S-2 (P106126-03) Water	**Sampled: 06/07/01 10:37**	**Received: 06/07/01 17:15**							
Sulfate as SO4	**11**	2.0	mg/l	10	1060205	06/22/01	06/22/01	EPA 300.0	
S-3 (P106126-04) Water	**Sampled: 06/07/01 11:55**	**Received: 06/07/01 17:15**							
Sulfate as SO4	ND	2.0	mg/l	10	1060205	06/22/01	06/22/01	EPA 300.0	
S-4 (P106126-05) Water	**Sampled: 06/07/01 12:28**	**Received: 06/07/01 17:15**							
Sulfate as SO4	**3.5**	2.0	mg/l	10	1060205	06/22/01	06/22/01	EPA 300.0	

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San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1060236 - EPA 5030, waters										
Blank (1060236-BLK1)				Prepared & Analyzed: 06/11/01						
Gasoline	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*330*		"	*300*		*110*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*269*		"	*300*		*89.7*	*65-135*			
LCS (1060236-BS1)				Prepared & Analyzed: 06/11/01						
Gasoline	2440	50	ug/l	2750		88.7	65-135			
Benzene	42.2	0.50	"	32.0		132	65-135			
Toluene	196	0.50	"	193		102	65-135			
Ethylbenzene	51.4	0.50	"	46.0		112	65-135			
Xylenes (total)	249	0.50	"	231		108	65-135			
Methyl tert-butyl ether	66.9	2.5	"	52.0		129	65-135			
Surrogate: a,a,a-Trifluorotoluene	*372*		"	*300*		*124*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*290*		"	*300*		*96.7*	*65-135*			
Matrix Spike (1060236-MS1)	**Source: P106145-03**			Prepared & Analyzed: 06/11/01						
Gasoline	2540	50	ug/l	2750	ND	92.4	65-135			
Benzene	35.4	0.50	"	32.0	ND	111	65-135			
Toluene	185	0.50	"	193	ND	95.7	65-135			
Ethylbenzene	50.4	0.50	"	46.0	ND	110	65-135			
Xylenes (total)	234	0.50	"	231	ND	101	65-135			
Methyl tert-butyl ether	63.8	2.5	"	52.0	ND	121	65-135			
Surrogate: a,a,a-Trifluorotoluene	*357*		"	*300*		*119*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*301*		"	*300*		*100*	*65-135*			

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San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1060236 - EPA 5030, waters										
Matrix Spike Dup (1060236-MSD1)	**Source: P106145-03**			Prepared & Analyzed: 06/11/01						
Gasoline	2580	50	ug/l	2750	ND	93.8	65-135	1.56	20	
Benzene	37.0	0.50	"	32.0	ND	116	65-135	4.42	20	
Toluene	197	0.50	"	193	ND	102	65-135	6.28	20	
Ethylbenzene	52.7	0.50	"	46.0	ND	115	65-135	4.46	20	
Xylenes (total)	251	0.50	"	231	ND	109	65-135	7.01	20	
Methyl tert-butyl ether	67.6	2.5	"	52.0	ND	128	65-135	5.78	20	
Surrogate: a,a,a-Trifluorotoluene	*371*		"	*300*		*124*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*300*		"	*300*		*100*	*65-135*			
Batch 1060237 - EPA 5030, waters										
Blank (1060237-BLK1)				Prepared & Analyzed: 06/11/01						
Gasoline	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*308*		"	*300*		*103*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*294*		"	*300*		*98.0*	*65-135*			
LCS (1060237-BS1)				Prepared & Analyzed: 06/11/01						
Gasoline	2600	50	ug/l	2750		94.5	65-135			
Benzene	41.2	0.50	"	32.0		129	65-135			
Toluene	213	0.50	"	193		110	65-135			
Ethylbenzene	44.8	0.50	"	46.0		97.4	65-135			
Xylenes (total)	228	0.50	"	231		98.7	65-135			
Methyl tert-butyl ether	66.6	2.5	"	52.0		128	65-135			
Surrogate: a,a,a-Trifluorotoluene	*351*		"	*300*		*117*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*311*		"	*300*		*104*	*65-135*			

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Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1060237 - EPA 5030, waters										
Matrix Spike (1060237-MS1)	**Source: P106167-04**			Prepared & Analyzed: 06/11/01						
Gasoline	2700	50	ug/l	2750	ND	98.2	65-135			
Benzene	42.4	0.50	"	32.0	ND	132	65-135			
Toluene	221	0.50	"	193	0.81	114	65-135			
Ethylbenzene	45.9	0.50	"	46.0	ND	99.2	65-135			
Xylenes (total)	235	0.50	"	231	0.74	101	65-135			
Methyl tert-butyl ether	64.4	2.5	"	52.0	ND	121	65-135			
Surrogate: a,a,a-Trifluorotoluene	*349*		"	*300*		*116*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*318*		"	*300*		*106*	*65-135*			
Matrix Spike Dup (1060237-MSD1)	**Source: P106167-04**			Prepared & Analyzed: 06/11/01						
Gasoline	2700	50	ug/l	2750	ND	98.2	65-135	0.00	20	
Benzene	42.3	0.50	"	32.0	ND	132	65-135	0.236	20	
Toluene	223	0.50	"	193	0.81	115	65-135	0.901	20	
Ethylbenzene	47.0	0.50	"	46.0	ND	102	65-135	2.37	20	
Xylenes (total)	239	0.50	"	231	0.74	103	65-135	1.69	20	
Methyl tert-butyl ether	71.7	2.5	"	52.0	ND	135	65-135	10.7	20	
Surrogate: a,a,a-Trifluorotoluene	*352*		"	*300*		*117*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*319*		"	*300*		*106*	*65-135*			

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San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1060234 - EPA 3510B										
Blank (1060234-BLK1)				Prepared & Analyzed: 06/11/01						
Diesel (C10-C24)	ND	50	ug/l							
Surrogate: o-Terphenyl	*89.4*		"	*100*		*89.4*	*50-150*			
LCS (1060234-BS1)				Prepared & Analyzed: 06/11/01						
Diesel (C10-C24)	894	50	ug/l	1000		89.4	50-150			
Surrogate: o-Terphenyl	*92.1*		"	*100*		*92.1*	*50-150*			
LCS Dup (1060234-BSD1)				Prepared & Analyzed: 06/11/01						
Diesel (C10-C24)	812	50	ug/l	1000		81.2	50-150	9.61	20	
Surrogate: o-Terphenyl	*87.2*		"	*100*		*87.2*	*50-150*			

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San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1060227 - General Preparation										
Blank (1060227-BLK1)				Prepared & Analyzed: 06/07/01						
Ferrous Iron	ND	100	ug/l							
LCS (1060227-BS1)				Prepared & Analyzed: 06/07/01						
Ferrous Iron	870	100	ug/l	800		109	80-120			
Matrix Spike (1060227-MS1)		Source: P106126-02		Prepared & Analyzed: 06/07/01						
Ferrous Iron	943	100	ug/l	800	150	99.1	75-125			
Matrix Spike Dup (1060227-MSD1)		Source: P106126-02		Prepared & Analyzed: 06/07/01						
Ferrous Iron	912	100	ug/l	800	150	95.2	75-125	3.34	20	
Batch 1060521 - General Preparation										
Blank (1060521-BLK1)				Prepared & Analyzed: 06/08/01						
Nitrate/Nitrite as N	ND	50	ug/l							
LCS (1060521-BS1)				Prepared & Analyzed: 06/08/01						
Nitrate/Nitrite as N	4350	50	ug/l	4000		109	80-120			
Matrix Spike (1060521-MS1)		Source: P106126-02		Prepared & Analyzed: 06/08/01						
Nitrate/Nitrite as N	3820	50	ug/l	4000	ND	95.5	75-125			
Matrix Spike Dup (1060521-MSD1)		Source: P106126-02		Prepared & Analyzed: 06/08/01						
Nitrate/Nitrite as N	3870	50	ug/l	4000	ND	96.8	75-125	1.30	20	

Sequoia Analytical

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www.sequoialabs.com

Blaine Tech Services, Inc.	Project: Equiva	
1680 Rogers Ave.	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

MTBE 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 1F21031 - EPA 5030B P/T										
Blank (1F21031-BLK1)				Prepared & Analyzed: 06/21/01						
Methyl tert-butyl ether	ND	1.0	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*10.0*		"	*10.0*		*100*	*70-130*			
LCS (1F21031-BS1)				Prepared & Analyzed: 06/21/01						
Methyl tert-butyl ether	9.35	1.0	ug/l	10.0		93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*10.5*		"	*10.0*		*105*	*70-130*			
Matrix Spike (1F21031-MS1)		**Source: MKF0270-04**		Prepared & Analyzed: 06/21/01						
Methyl tert-butyl ether	10.9	1.0	ug/l	10.0	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*10.4*		"	*10.0*		*104*	*70-130*			
Matrix Spike Dup (1F21031-MSD1)		**Source: MKF0270-04**		Prepared & Analyzed: 06/21/01						
Methyl tert-butyl ether	11.0	1.0	ug/l	10.0	ND	110	70-130	0.913	25	
Surrogate: 1,2-Dichloroethane-d4	*10.6*		"	*10.0*		*106*	*70-130*			

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Blaine Tech Services, Inc.	Project: Equiva	
1680 Rogers Ave.	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

Anions by EPA Method 300.0 - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1060205 - General Preparation										
Blank (1060205-BLK1)				Prepared & Analyzed: 06/22/01						
Sulfate as SO4	ND	0.20	mg/l							
LCS (1060205-BS1)				Prepared & Analyzed: 06/22/01						
Sulfate as SO4	100	2.0	mg/l	10.0		1000	80-120			
Matrix Spike (1060205-MS1)	**Source: P106126-03**			Prepared & Analyzed: 06/22/01						
Sulfate as SO4	107	2.0	mg/l	100	11	96.0	75-125			
Matrix Spike Dup (1060205-MSD1)	**Source: P106126-03**			Prepared & Analyzed: 06/22/01						
Sulfate as SO4	107	2.0	mg/l	100	11	96.0	75-125	0.00	20	

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Blaine Tech Services, Inc.	Project: Equiva	
1680 Rogers Ave.	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	06/27/01 12:22

Notes and Definitions

A-01	Analyte was not confirmed by 8260 as the hold time had expired .
QR-04	The results between the primary and confirmation columns varied by greater than 40% RPD. The results may still be useful for their intended purpose.
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: Kiva01a

Lab Identification (if necessary):

Address:

City, State, Zip:

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY): 98995746

SAP or CRMT NUMBER (TS/CRMT):

DATE: 6/7/01

PAGE: 1 of 1

CONSULTANT COMPANY: Blaine Tech Services

ADDRESS: 1680 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): 4411 Foothill Boulevard, Oakland

PROJECT CONTACT (Report to): Nick Sudano

CONSULTANT PROJECT NO.: BTS # 010607-M1

SAMPLER NAME(S) (Print): Matthew Miller

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: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: BWA Confirm any MTBE[] by 8260
S-1 through S-4 Confirm the highest MTBE by 8260 Fax Copy of COC on receipt to Lab

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 (8260B)	Ethanol, Methanol (8015B)		Nitrate, Sulfate, & Ferrous Iron	MTBE (8260B) Confirmation, See Note	
	BW-A	6/7	955	W	5	X	X	X		X					X	P10612601
	S-1	6/7	1120	W	7	X	X	X		X				X	X	2
	S-2	6/7	1037	W	7	X	X	X		X				X	X	3
	S-3	6/7	1155	W	7	X	X	X		X				X	X	4
	S-4	6/7	1228	W	7	X	X	X		X				X	X	5

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐

COOLER TEMPERATURE 4.5 °C

	Relinquished by: (Signature)	Received by: (Signature)	Date	Time
1			6/7/01	1355
2	6/7/01 1715		6/7/01	1715
3				

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

10/16/00 Revision

Q&Q Graphic (714) 898-9702

WELL GAUGING DATA

Project # 010607-M1 Date 6/7/01 Client Equiva

Site 4411 Foothill Blvd 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	
S-1	4					8.80	24.58	TOB	
S-2	4	stinger in well				9.39	22.34		
S-3	4					8.78	20.47		
S-4	4	odor				10.57	20.19		
BW-A	4	stinger in well				9.82	12.32		

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010607-M1	Site: 98995746
Sampler: MJM	Date: 6/7/01
Well I.D.: S-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 24.58	Depth to Water: 8.80
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: _____

10 (Gals.) X 3 = 30 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
1110	72.4	8.8	897	70	10	
1112	71.8	8.8	846	54	20	
1115	72.4	8.1	838	49	30	

Did well dewater? Yes (No) Gallons actually evacuated: 30

Sampling Time: 1120 Sampling Date: 6/7/01

Sample I.D.: S-1 Laboratory: (Sequoia) Columbia Other_____

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

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): 6.2 √√ mg/L	(Post-purge):	2.2	mg/L
O.R.P. (if req'd):	(Pre-purge): 167 mV	(Post-purge):	150	mV

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

[Hach Kit] Ferrous Iron 0.0

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010607-M1	Site: 98995746
Sampler: MTM	Date: 6/7/01
Well I.D.: S-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 22.34	Depth to Water: 9.39
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: _____

8.4 (Gals.) X 3 = 25 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
1828	74.8	6.9	1415	>200	8	
1830	74.8	7.0	1433	>200	16	
1832	75.5	6.9	1310	>200	25	

Did well dewater? Yes (No) Gallons actually evacuated: 25

Sampling Time: 1837 Sampling Date: 6/7/01

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

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

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):	1.1 mg/L	(Post-purge):	2.0 mg/L	
O.R.P. (if req'd):	(Pre-purge):	110 mV	(Post-purge):	97 mV	

[HACH kit] Ferrous Iron 0.0

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010607-M1	Site: 98995746
Sampler: MTM	Date: 6/7/01
Well I.D.: S-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 20.47	Depth to Water: 8.78
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: _____

11.7 (Gals.) X 3 = 35 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
1144	73.6	6.6	667	55	12	odor
1147	74.3	6.7	528	32	24	"
1150	74.2	6.6	639	33	35	"

Did well dewater? Yes (No) Gallons actually evacuated: 35

Sampling Time: 1155 Sampling Date: 6/7/01

Sample I.D.: S-3 Laboratory: (Sequoia) Columbia Other_____

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

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):	0.8 mg/L	(Post-purge):	0.9	mg/L
O.R.P. (if req'd):	(Pre-purge):	162 mV	(Post-purge):	104	mV

[HACH kit] Ferrous Iron 2.4

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010607-M1	Site: 98995746
Sampler: MJM	Date: 6/7/01
Well I.D.: S-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 20.19	Depth to Water: 10.57
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: _____

10 (Gals.) X 3 = 30 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
1218	73.8	6.6	1580	103	10	
1221	72.1	6.6	1576	71	20	odor
1223	71.7	6.6	1589	65	30	

Did well dewater? Yes (No) Gallons actually evacuated: 30

Sampling Time: 1228 Sampling Date: 6/7/01

Sample I.D.: ~~S~~ S-4 Laboratory: (Sequoia) Columbia Other_____

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

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):	0.7 mg/L	(Post-purge):	0.6	mg/L
O.R.P. (if req'd):	(Pre-purge):	77 mV	(Post-purge):	25	mV

[Hach kit] Ferrous Iron 4.9

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010607-M1	Site: 98995746
Sampler: MTM	Date: 6/7/01
Well I.D.: BW-A	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 12.32	Depth to Water: 9.82
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: _____

1.6 (Gals.) X 3 = 4.8 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
947	82.4	6.5	423	90	1.6	
948	79.8	6.5	876	50	3.2	
950	78.7	6.5	864	36	5	

Did well dewater? Yes (No) Gallons actually evacuated: 5

Sampling Time: 955 Sampling Date: 6/7/01

Sample I.D.: BW-A Laboratory: (Sequoia) Columbia Other_____

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

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):	3.6 mg/L	(Post-purge):	0.8 mg/L
O.R.P. (if req'd):	(Pre-purge)	48 mV	(Post-purge)	42 mV