CAMBRIA

#3646

November 3, 1999

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

Re: **Second Quarter 1999 Monitoring Report**
Shell-branded Service Station
540 Hegenberger Road
Oakland, California
Incident #98995752
Cambria Project #241-0414-002

Dear Mr. Chan:

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

SECOND QUARTER 1999 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California collected dissolved oxygen (DO) measurements, gauged water levels, sampled the monitoring wells using the non-purging method, and sampled the tank backfill wells after purging three casing volumes. Blaine calculated ground water elevations and compiled the analytical data. Cambria prepared a ground water elevation contour map (Figure 1). The Blaine report, presenting the laboratory report and including supporting field documents, is included as Attachment A.

Conduit Study, Receptor Survey and Monitoring Well Installation: Cambria is in the process of conducting an evaluation of preferential pathways prior to installing the downgradient monitoring well proposed in Cambria's *Subsurface Investigation Work Plan* dated February 25, 1999. Cambria conducted a sensitive receptor survey. Results of the receptor survey are tabulated in Table 1. Well locations and surface bodies of water are shown on Figure 2. The results of the conduit study and monitoring well installation details will be presented in a forthcoming report.

Interim Remedial Action: Due to the elevated concentrations of MTBE in site wells, Cambria has initiated weekly high vacuum ground water extraction from the four tank back fill wells (A through D), and monitoring wells MW-1 and MW-3. Approximately 21,400 gallons of ground water has been extracted from site wells since purging began on July 29, 1999. Weekly purge data is presented in Table 2.

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

Cambria Environmental Technology, Inc.

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

CAMBRIA

Barney Chan
November 3, 1999

ANTICIPATED THIRD QUARTER 1999 ACTIVITIES

Ground Water Monitoring: Blaine will collect DO measurements, gauge water levels, sample the monitoring wells using the non-purging method, and tabulate the data. Cambria will prepare a monitoring report.

Interim Remedial Action: As a means of source removal and contaminant migration control, Cambria will continue to coordinate weekly vacuum truck operations at the site.

maybe should determine the source & whether it's still present.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

D. Ataide

Darryk Ataide, REA I
Project Manager

A. Le May

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

REGISTERED GEOLOGIST
AILSA S. LE MAY
NO. 6717
STATE OF CALIFORNIA

Figure: 1 - Ground Water Elevation Contour Map
2 - Area Well Survey
Table: 1 - Well Survey
2 - Purge Data
Attachment: A - Blaine Ground Water Monitoring Report and Field Notes
cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California 90749-6249

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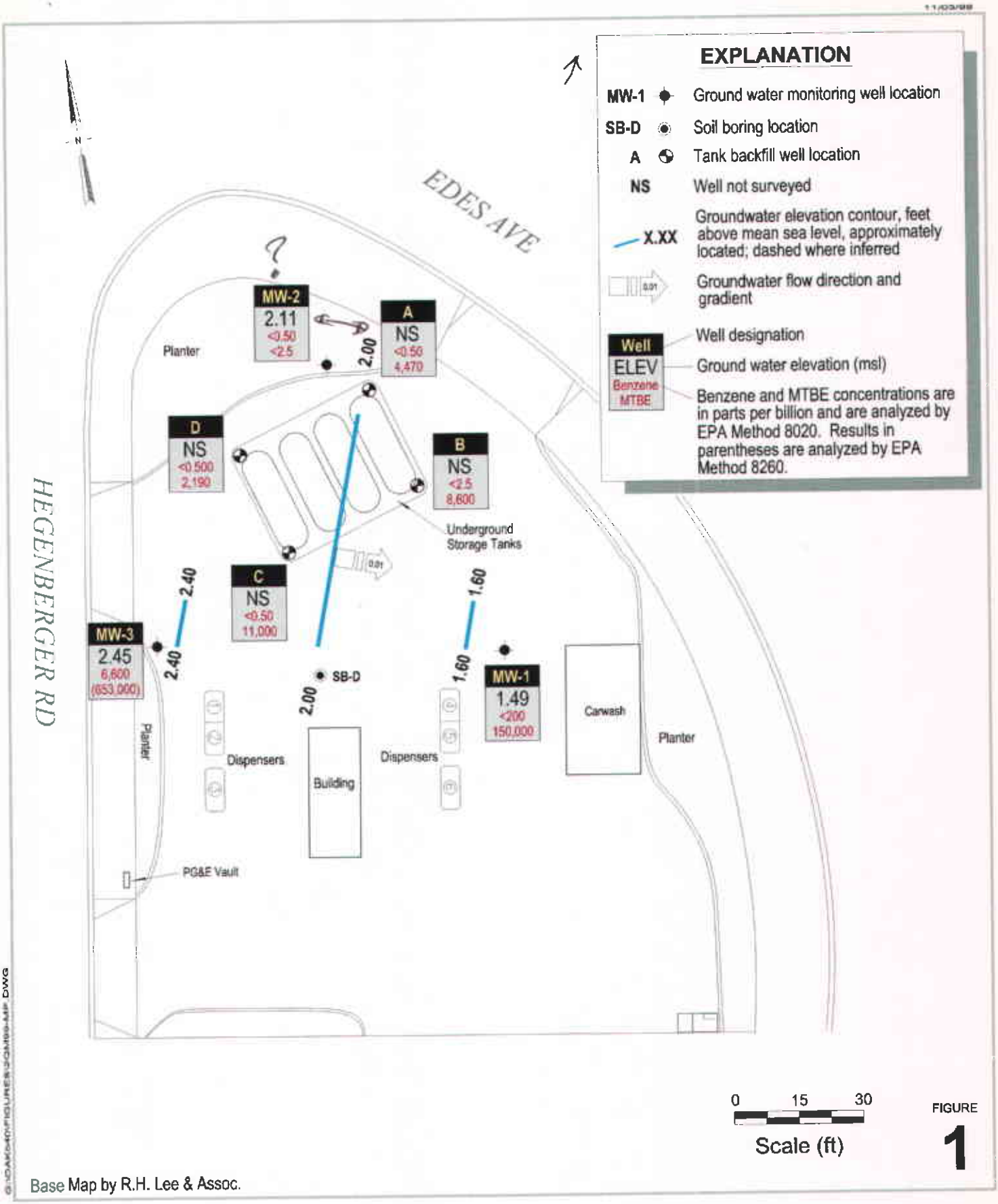


FIGURE 1

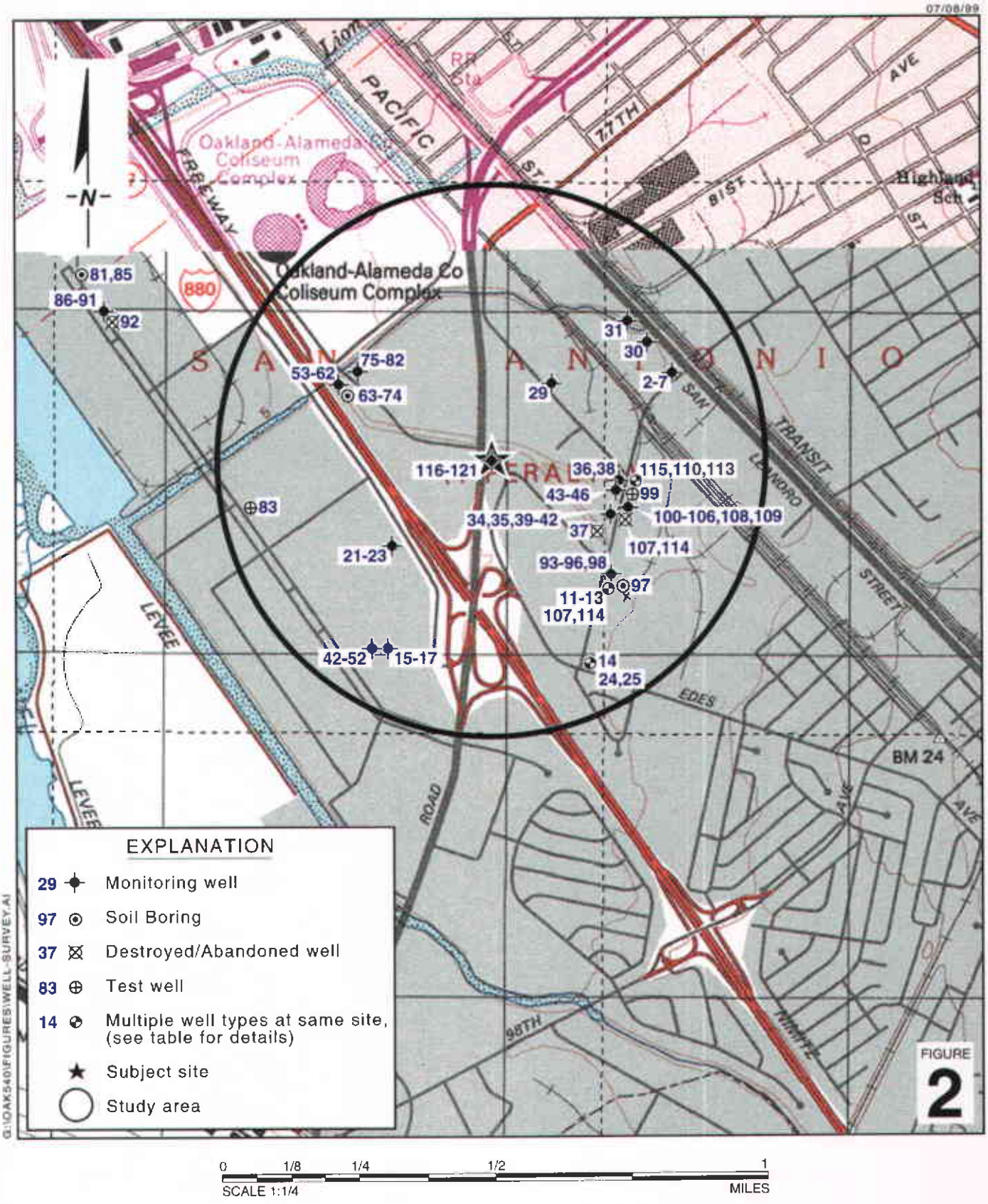
Base Map by R.H. Lee & Assoc.

Shell-branded Service Station
540 Hegenberger Road
Oakland, California
Incident #98995752

CAMBRIA

Ground Water Elevation Contour Map

June 22, 1999



Shell-branded Service Station
540 Hegenberger Road
Oakland, California
Incident #98995752

CAMBRIA

Area Well Survey

(1/2-Mile Radius)

Table 1. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
1	2S/3W 22N	02/06/91	Edes Avenue Senior Housing	UNK	15	N/A	N/A
2	2S/3W 22E7	12/14/89	Carolyn Ratcliff	MONIT	15	5- 14.5	0- 4
3	2S/3W 22E7	12/13/89	Carolyn Ratcliff	MONIT	20	10- 19.5	0- 8
4	2S/3W 22E7	12/15/89	Carolyn Ratcliff	MONIT	18	8- 17.5	0- 6
5	2S/3W 22E7	12/14/89	Carolyn Ratcliff	MONIT	18	8- 17.5	0- 6
6	2S/3W 22E7	12/13/89	Carolyn Ratcliff	MONIT	19.5	10- 19	0- 8
7	2S/3W 22E7	12/14/89	Carolyn Ratcliff	MONIT	19.5	10- 19	0- 8
8	2S/3W 21Q08	09/13/92	Union Bank	MONIT	20	4- 19	0- 4
9	2S/3W 21Q09	09/13/92	Union Bank	MONIT	16.5	4- 14	0- 4
10	2S/3W 21Q10	09/13/92	Union Bank	MONIT	20	5- 20	0- 4
11	2S/3W 21R2	04/25/88	IMO Delaval, Inc.	MONIT	28	12-26.5	0- 10
21	2S/3W 21R16	03/11/89	IMO Delaval, Inc.	MONIT	26.5	15-25	0.5-15
13	2S/3W 21R17	03/12/89	IMO Delaval, Inc.	MONIT	27	15-25	0.5-15
14	2S/3W21	10/29/52	General Metals Corporation	IND	600	200-584	N/A
15	2S/3W21L05	09/10/92	Ryder Truck Rental Inc.	MONIT	13.5	3.5-13.0	0-3.5
16	2S/3W21L06	09/10/92	Ryder Truck Rental Inc.	MONIT	13.5	3.5-13.0	0-3.5
17	2S/3W21L07	09/14/92	Ryder Truck Rental Inc.	MONIT	13.5	3.5-13.0	0-3.5
18	2S/3W21M1	07/06/91	BOC Group	MONIT	21	7-17	0-7
19	2S/3W21K1	04/25/90	Motel 6	MONIT	30	5-30	0-5
20	2S/3W21L1	01/17/91	IMO Delaval, Inc.	N/A	32	2-30	0-20
21	2S/3W21L2	11/09/92	Superior Tile Company	MONIT	19	4-19	0.5-4
22	2S/3W21L3	11/09/92	Superior Tile Company	MONIT	15	4-14	0.5-4
23	2S/3W21L4	11/09/92	Superior Tile Company	MONIT	14	4-14	0.5-4
24	2S/3W21L4	11/09/92	Motel 6	MONIT	11.5	N/A	0-11.5
25	2S/3W21L4'	11/09/92	Motel 6	MONIT	21.5	N/A	0-21.5

Table 1. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
26	2S/3W21D1	08/16/90	Port of Oakland	MONIT	16	4-15	0-4
27	2S/3W21E1	08/16/90	Port of Oakland	MONIT	16	4-15	0-4
28	2S/3W21E2	08/16/90	Port of Oakland	MONIT	16	4-15	0-4
29	2S/3W21B1	09/30/93	Morris Properties	MONIT	20	5-20	0-5
30	2S/3W21A1	09/19/89	Monterey Mechanical	MONIT	25	9-25	0-9
31	2S/3W21A2	06/24/93	Mr. Nissan Saidan	MONIT	15	3-15	0-3
32	2S/3W21R	N/A	Stonehurst Nursery	REM	17	7-17	0-7
33	2S/3W21H11	02/19/92	Stephen Block	MONIT	17	7-17	0-7
34	2S/3W21H9	04/25/91	West Coast Wire Rope	MONIT	17.5	3-17.5	0-3
35	2S/3W21H10	04/25/91	West Coast Wire Rope	MONIT	20	3-20	0-3
36	2S/3W21H7	07/07/89	Ran Rob, Inc.	MONIT	16.5	5-16	0-5
37	2S/3W21H5	07/07/89*	Ran Rob, Inc.	DEST	36	N/A	N/A
38	2S/3W21H6	07/17/89	Ran Rob, Inc.	MONIT	36	26-36	0-26
39	2S/3W21G17	07/09/92	ARCO Products Company	MONIT	16.5	8-16.5	0-8
40	2S/3W21G15	07/10/92	ARCO Products Company	MONIT	15	9-15	0-9
41	2S/3W21G1	10/30/89	ARCO Products Company	MONIT	23	13-23	0-13
42	2S/3W21G2	06/07/89	ARCO Products Company	MONIT	21.5	14-18	0-14
43	2S/3W21H1	07/22/88	Lincoln Property co.	MONIT	16	6-16	0-6
44	2S/3W21H2	07/22/88	Lincoln Property co.	MONIT	13	5-10.5	0-4 & 10.5-13
45	2S/3W21H3	07/22/88	Lincoln Property co.	MONIT	16	6-16	0-5
46	2S/3W21H5	07/22/88	Lincoln Property co.	MONIT	18	8-18	0-6
47	2S/3W21D2	03/12/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5
48	2S/3W21D3	03/13/92	Ryder Truck Rental Inc.	MONIT	14	4.5-14	0-4.5
49	2S/3W21D4	03/13/92	Ryder Truck Rental Inc.	MONIT	14.5	4.5-14.5	0-4.5
50	2S/3W21D5	04/28/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5

Table 1. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
51	2S/3W21D6	04/28/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5
52	2S/3W21D7	04/28/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5
53	2S/3W21C2	09/21/89	Malibu Fun Center	MONIT	20	4-15	0-4
54	2S/3W21C4	09/20/89	Malibu Fun Center	MONIT	15	4-19	0-4
55	2S/3W21C3	09/20/89	Malibu Fun Center	MONIT	17	5-15	0-5 & 15-17
56	2S/3W21C1	09/20/89	Malibu Fun Center	MONIT	10.5	5-10.5	0-5
57	2S/3W21C5	06/12/90	Malibu Fun Center	MONIT	19.5	5-19.5	0-5
58	2S/3W21C6	06/12/90	Malibu Fun Center	MONIT	19	4-19	0-4
59	2S/3W21C7	06/12/90	Malibu Fun Center	MONIT	19.5	4.5-19.5	0-4.5
60	2S/3W21C8	06/13/90	Malibu Fun Center	MONIT	19.5	4.5-19.5	0-4.5
61	2S/3W21C9	06/13/90	Malibu Fun Center	MONIT	10	4.5-10	0-4.5
62	2S/3W21C10	06/13/90	Malibu Fun Center	MONIT	19	4-19	0-4
63	2S/3W21C (B6)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
64	2S/3W21C (B7)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
65	2S/3W21C (B8)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
66	2S/3W21C (B9)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
67	2S/3W21C (B10)	06/13/90	Malibu Fun Center	SB	5	N/A	0-7
68	2S/3W21C (B11)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
69	2S/3W21C (B12)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
70	2S/3W21C (B13)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
71	2S/3W21C (B14)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
72	2S/3W21C (B15)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
73	2S/3W21C (B16)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
74	2S/3W21C (B17)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
75	2S/3W21C11	08/28/91	Malibu Fun Center	MONIT	14	3.5-14	0-3.5

Table 1. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
76	2S/3W21C12	08/28/91	Malibu Fun Center	MONIT	21.5	4.5-20	0-4.5 & 20-21.5
77	2S/3W21C13	08/28/91	Malibu Fun Center	MONIT	20	5-20	0-5
78	2S/3W21C14	08/27/91	Malibu Fun Center	MONIT	20	4-20	0-4
79	2S/3W21C15	08/29/91	Malibu Fun Center	MONIT	19	4-19	0-4
80	2S/3W21C16	08/29/91	Malibu Fun Center	MONIT	18.5	3.5-18.5	0-3.5
81	2S/3W21C17	08/30/91	Malibu Fun Center	MONIT	18.5	3.5-18.5	0-3.5
82	2S/3W21C18	08/29/91	Malibu Fun Center	MONIT	21	6-21	0-6
83	2S/3W21E3	04/02/91	Travelers Companies	TEST	12.5	4-12.5	0-4
84	2S/3W21E (B1)	N/A	City of Oakland	SB	36.5	N/A	N/A
85	2S/3W21E (B2)	N/A	City of Oakland	SB	32.5	N/A	N/A
86	2S/3W21D9	02/12/92	Grand Auto Distribution Center	MONIT	18.5	4-18	0-4
87	2S/3W21D10	02/12/92	Grand Auto Distribution Center	MONIT	18.5	4-18	0-4
88	2S/3W21D11	02/13/92	Grand Auto Distribution Center	MONIT	19.5	5-19	0-5
89	2S/3W21D12	02/11/92	Grand Auto Distribution Center	MONIT	20	5.5-19.5	0-5.5
90	2S/3W21D13	02/14/92	Grand Auto Distribution Center	MONIT	34.5	20-34	0-20
91	2S/3W21D14	02/11/92	Grand Auto Distribution Center	MONIT	18.5	4-18	0-4
92	2S/3W21D8	02/13/92*	Grand Auto Distribution Center	DEST	N/A	N/A	N/A
93	2S/3W21J3	01/27/88	IMO Delaval	MONIT	23	8-23	0-8
94	2S/3W21J4	01/26/88	IMO Delaval	MONIT	30	15-30	0-15
95	2S/3W21J5	01/25/88	IMO Delaval	MONIT	36	26-36	0-26
96	2S/3W21J6	01/25/88	IMO Delaval	MONIT	30	20-30	0-20
97	2S/3W21J (SB1a)	N/A	IMO Delaval	SB	26.5	N/A	0-26.5
98	2S/3W21J35	11/19/89	IMO Delaval	MONIT	55	45-55	0-45
99	2S/3W21J20	04/21/89	IMO Delaval	TEST	27.5	22.5-27.5	0-22.5
100	2S/3W21J21	04/21/89	IMO Delaval	MONIT	39	14-39	0-14

Table 1. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
101	2S/3W21J22	04/22/89	IMO Delaval	MONIT	23	13-23	0-13
102	2S/3W21J16	04/17/89	IMO Delaval	MONIT	22	12-22	0-12
103	2S/3W21J17	04/17/89	IMO Delaval	MONIT	24	14-24	14-Mar
104	2S/3W21J18	04/18/89	IMO Delaval	MONIT	32	12-32	12-Mar
105	2S/3W21J19	04/18/89	IMO Delaval	MONIT	21.5	12.5-17.5	2.5-12.5 & 17.5-21.5
106	2S/3W21J7	04/20/89	IMO Delaval	MONIT	30.5	15-30.5	0-15
107	2S/3W21J8	04/21/89*	IMO Delaval	DEST	34	N/A	N/A
108	2S/3W21J9	04/21/89	IMO Delaval	MONIT	32	17-32	0-17
109	2S/3W21J10	04/25/89	IMO Delaval	MONIT	34	19-34	0-19
110	2S/3W21N1	11/16/89	IMO Delaval	N/A	30	20-30	0-20
111	2S/3W21P2	11/16/89	IMO Delaval	N/A	29.5	19.5-29.5	19.5
112	2S/3W21Q1	11/20/89	IMO Delaval	N/A	46.5	43.5-46.5	0-43.5
113	2S/3W21H8	04/18/91	IMO Delaval	N/A	20	3-20	0-3
114	2S/3W21J1	08/14/79*	IMO Delaval	DEST	250	N/A	N/A
115	2S/3W21J2	06/16/76	Delaval Tirbine, Inc.	IND	430	130-240	0-130 & 240-430
116	2S/3W21Q2	02/05/91	Unocal Corporation	MONIT	13	2-13	0-2
117	2S/3W21Q3	02/05/91	Unocal Corporation	MONIT	15	3-15	0-3
118	2S/3W21Q4	02/05/91	Unocal Corporation	MONIT	14	2-14	0-2
119	2S/3W21Q5	08/21/92	Unocal Corporation	MONIT	13.5	2.5-13.5	0-2.5
120	2S/3W21Q6	08/21/92	Unocal Corporation	MONIT	13.5	2.5-13.5	0-2.5
121	2S/3W21Q7	08/21/92	Unocal Corporation	MONIT	13.5	2.5-13.5	0-2.5

Table 1. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval

Abbreviations:

UNK = Unknown
MONIT = Monitoring Well
IND = Industrial well
REM = Remediation
DEST = Destroyed well
SB = Soil Borings
DOM = Domestic well
IRR = Irrigation well
TEST = Test well
MUNI = Municipal supply well
* = Well destruction date
N/A = Not available

Notes:

All well data was supplied by the California Department of Water Resources
Wells 26, 27, and 28 are not located on the half-mile well vicinity map
Wells 1 & 32: addresses unknown

Table 2. Purge Data - Shell-branded Service Station - Incident #98995752 - 540 Hegenberger Road, Oakland, California

Well ID	Date	Volume (gals)	Total per well (gals)
MW-1	07/29/99	150	100
	08/04/99	150	250
	08/11/99	15	265
	08/20/99	55	320
	08/30/99	218	538
MW-3	07/29/99	100	100
	08/04/99	100	200
	08/11/99	45	245
	08/20/99	55	300
	08/30/99	77	377
BW-A	07/29/99	400	100
	08/04/99	2,000	2,100
	08/11/99	2,437	4,537
	08/20/99	1,213	5,750
	08/30/99	2,673	8,423
BW-B	07/29/99	1,000	100
	08/04/99	800	900
	08/11/99	2,213	3,113
	08/20/99	1,213	4,326
	08/30/99	877	5,203
BW-C	07/29/99	300	100
	08/04/99	700	800
	08/11/99	0	800
	08/20/99	1,013	1,813
	08/30/99	375	2,188
BW-D	07/29/99	1,500	1,500
	08/04/99	250	1,750
	08/11/99	0	1,750
	08/20/99	1,213	2,963
	08/30/99	280	3,243
		Total to date	**21,422**

Abbreviations and Notes:

gals = Gallons
All purging performed by Advanced Cleanup Technologies, Inc. of Benecia, California

ATTACHMENT A

Blaine Ground Water Monitoring Report
and Field Notes

BLAINE
TECH SERVICES inc

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

August 30, 1999

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

Second Quarter 1999 Groundwater Monitoring at
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Monitoring performed on June 22 & 23, 1999

Groundwater Monitoring Report **990622-T-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, apprioriate 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/ld

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA
WIC #204-5508-5900

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)	DO Reading (ppm)
MW-1 (a)	8/26/98	2700	28	55	59	39	33,000	NA	10.54	7.91	2.63	1.8
MW-1 (b)	8/26/98	<1000	22	<10	<10	<10	17,000	NA	10.54	7.91	2.63	2.2
MW-1	12/28/98	<5000	<50.0	<50.0	<50.0	<50.0	153,000	33000	10.54	8.75	1.79	1.9
MW-1	3/29/99	<2000	<20.0	<20.0	<20.0	<20.0	693,000	NA	10.54	8.32	2.22	2.0
MW-1	6/22/99	20,000	<200	<200	<200	<200	150,000	NA	10.54	9.05	1.49	1.7
MW-2 (a)	8/26/98	<250	3.2	<2.5	<2.5	<2.5	4000	NA	9.21	7.18	2.03	2.4
MW-2 (b)	8/26/98	<250	3.1	<2.5	<2.5	<2.5	4800	NA	9.21	7.18	2.03	2.7
MW-2 (D)(b)	8/26/98	<250	4.8	<2.5	<2.5	6.0	3300	NA	9.21	7.18	2.03	2.7
MW-2	12/28/98	<50.0	<0.500	<0.500	<0.500	<0.500	28.8	NA	9.21	7.34	1.87	2.1
MW-2	3/29/99	235	<0.500	<0.500	<0.500	3.4	101	NA	9.21	6.85	2.36	2.0
MW-2	6/22/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	9.21	7.10	2.11	1.9
MW-3 (a)	8/26/98	2300	180	330	<0.50	420	44,000	NA	9.45	6.52	2.93	1.8
MW-3 (b)	8/26/98	<50	<0.50	<0.50	<0.50	<0.50	52,000	75,000	9.45	6.52	2.93	2.3
MW-3	12/28/98	<5000	139	<50.0	<50.0	<50.0	15,100	NA	9.45	6.73	2.72	1.7
MW-3	3/29/99	52500	5500	6900	1360	6250	508,000	630,000 (c)	9.45	6.21	3.24	2.1
MW-3	6/22/99	58000	6600	9850	1640	6950	677,000	653,000	9.45	7.00	2.45	1.3
A	6/22/99	318	<0.50	<0.50	0.590	1.48	4,470	NA	NA	4.71	NA	1.1
B	6/22/99	<250	<2.5	<2.5	<2.5	<2.5	8,600	NA	NA	5.90	NA	1.2
C	6/22/99	<50	<0.50	<0.50	<0.50	0.98	11,000	NA	NA	5.91	NA	1.6
D	6/22/99	<50.0	<0.500	<0.500	<0.500	<0.500	2,190	NA	NA	4.78	NA	1.4

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA
WIC #204-5508-5900

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)	DO Reading (ppm)

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
GW = Groundwater
DO = Dissolved Oxygen
ppm = parts per million
ug/L = parts per billion
msl = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample

Notes:
a = pre-purge
b = post purge
c = Lab confirmed MTBE by mistake. MTBE value at MW-1 should have been confirmed instead.

Sequoia Analytical

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

July 13, 1999

Ann Pember
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

RE: Equiva 540 Hegenberger Road, Oakland/M906807

Dear Ann Pember

Enclosed are the results of analyses for sample(s) received by the laboratory on June 24, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kimyai
Project Manager

CA ELAP Certificate Number 1210

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva	Sampled: 6/23/99
1680 Rogers Avenue	Project Number:	540 Hegenberger Road, Oakland	Received: 6/24/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 7/1/99

ANALYTICAL REPORT FOR M906747

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW2	M906807-01	Water	6/23/99
MW1	M906807-02	Water	6/23/99
B	M906807-03	Water	6/23/99
C	M906807-04	Water	6/23/99

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Sequoia Analytical	Client Project ID:	M906807- Blaine Tech Services, Inc.	Sampled: Jun 23, 1999
885 Jarvis Dr.	Sample Matrix:	Water	Received: Jun 23, 1999
Morgan Hill, CA. 95037	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: Jul 9, 1999
Attention: Kayvan Kimyai	First Sample #:	906-2433	

QC Batch Number: GC070799 802004A | GC070799 802004A | GC070799 802004A | GC070799 802004A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX / MTBE

Analyte	Reporting Limit µg/L	Sample I.D. 906-2433 MW-2	Sample I.D. 906-2434 MW-1	Sample I.D. 906-2435 B	Sample I.D. 906-2436 C
Purgeable Hydrocarbons	50	N.D.	20,000	N.D.	N.D.
Benzene	0.50	N.D.	N.D.	N.D.	N.D.
Toluene	0.50	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	N.D.	N.D.	0.98
MTBE	2.5	N.D.	150,000	8,600	11,000
Chromatogram Pattern:		--	Gasoline	--	--

Quality Control Data

Report Limit Multiplication Factor:	1.0	400	5.0	1.0
Date Analyzed:	7/7/99	7/7/99	7/7/99	7/7/99
Instrument Identification:	HP-4	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	95	97	97	89

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Charlie Westwater
Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Sequoia Analytical
885 Jarvis Dr.
Morgan Hill, CA. 95037
Attention: Kayvan Kimyai

Client Project ID: M906807- Blaine Tech Services, Inc.
Matrix: Liquid
QC Sample Group: 9062433-436

Reported: Jul 9, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC070799	GC070799	GC070799	GC070799
Analy. Method:	802004A EPA 8020	802004A EPA 8020	802004A EPA 8020	802004A EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9062433	9062433	9062433	9062433
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/7/99	7/7/99	7/7/99	7/7/99
Analyzed Date:	7/7/99	7/7/99	7/7/99	7/7/99
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	22	19	20	67
MS % Recovery:	110	95	100	112
Dup. Result:	22	18	19	66
MSD % Recov.:	110	90	95	110
RPD:	0.0	5.4	5.1	1.5
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	4LCS070799	4LCS070799	4LCS070799	4LCS070799
Prepared Date:	7/7/99	7/7/99	7/7/99	7/7/99
Analyzed Date:	7/7/99	7/7/99	7/7/99	7/7/99
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	22	18	20	67
LCS % Recov.:	110	90	100	112

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

SEQUOIA ANALYTICAL, #1271

Charlie Westwater
Project Manager

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

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

M906807

BLAINE TECH SERVICES INC.

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

CHAIN OF CUSTODY 990623-T6

CLIENT: Equiva - Karen Petryna

SITE: 540 Hegenberger Road
Oakland, CA

LAB: SEQUOIA

DHS #:

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

☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995752

Send report to Blaine Tech Services

Attn: Ann Pember

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

SAMPLE I.D.			MATRIX (S = SOIL, W = H2O)	CONTAINERS TOTAL	C	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW2	6/23/99	915	W	3		X	X								
MW1	"	920	"	3		X	X								
~~MW~~ B	"	925	"	3		X	X								
C	"	930	"	3		X	X								

SAMPLING COMPLETED: DATE 6/23/99 TIME

SAMPLING PERFORMED BY: Mike Toll

RESULTS NEEDED NO LATER THAN

		DATE	TIME		DATE	TIME
RELEASED BY		6/23/99	9:01	RECEIVED BY		6/24/99 901
RELEASED BY		6/24/99	250	RECEIVED BY		
RELEASED BY				RECEIVED BY		6/24/99

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

Sequoia Analytical

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

July 11, 1999

Ann Pember
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

RE: Shell(2)/L906299

Dear Ann Pember:

Enclosed are the results of analyses for sample(s) received by the laboratory on June 23, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson
Project Manager

CA ELAP Certificate Number I-2360

Sequoia Analytical

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

Blaine Tech Services	Project:	Shell(2)	Sampled:	6/22/99
1680 Rogers Avenue	Project Number:	Shell 540 Hegenberger, Oakland/990622-T1	Received:	6/23/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported:	7/11/99

ANALYTICAL REPORT FOR L906299

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-3	L906299-02	Water	6/22/99
A	L906299-03	Water	6/22/99
D	L906299-06	Water	6/22/99

Sequoia Analytical

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

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/22/99
1680 Rogers Avenue	Project Number:	Shell 540 Hegenberger, Oakland/990622-T1	Received: 6/23/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 7/11/99

Sample Description: **MW-3**
Laboratory Sample Number: **L906299-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9070012	7/4/99	7/4/99		25000	**58000**	ug/l	I
Benzene	"	"	"		250	**6600**	"	
Toluene	"	"	"		250	**9850**	"	
Ethylbenzene	"	"	"		250	**1640**	"	
Xylenes (total)	"	"	"		250	**6950**	"	
Methyl tert-butyl ether	9070016	7/6/99	7/6/99		50000	**677000**	"	
Surrogate: a,a,a-Trifluorotoluene	9070012	7/4/99	7/4/99	*70.0-130*		*90.5*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9070063	7/16/99	7/16/99		10000	**653000**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*105*	%	

Sequoia Analytical

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

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/22/99
1680 Rogers Avenue	Project Number:	Shell 540 Hegenberger, Oakland/990622-T1	Received: 6/23/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 7/11/99

Sample Description: **A**
Laboratory Sample Number: **L906299-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9070013	7/4/99	7/4/99		50.0	**318**	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	**0.590**	"	
Xylenes (total)	"	"	"		0.500	**1.48**	"	
Methyl tert-butyl ether	9040012	"	"		100	**4470**	"	
Surrogate: a,a,a-Trifluorotoluene	9070013	"	"	*70.0-130*		*82.7*	*%*	

Sequoia Analytical

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

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/22/99
1680 Rogers Avenue	Project Number:	Shell 540 Hegenberger, Oakland/990622-T1	Received: 6/23/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 7/11/99

Sample Description: **D**
Laboratory Sample Number: **L906299-06**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9070013	7/4/99	7/4/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		50.0	**2190**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*79.7*	%	

Sequoia Analytical

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

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/22/99
1680 Rogers Avenue	Project Number:	Shell 540 Hegenberger, Oakland/990622-T1	Received: 6/23/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 7/11/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9070012	**Date Prepared: 7/4/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9070012-BLK1**									
Purgeable Hydrocarbons as Gasoline	7/8/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.37*	"	*70.0-130*	*83.7*			
LCS	**9070012-BS1**									
Purgeable Hydrocarbons as Gasoline	7/8/99	250		225	ug/l	70.0-130	90.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.05*	"	*70.0-130*	*80.5*			
Matrix Spike	**9070012-MS1**		**L906294-03**							
Purgeable Hydrocarbons as Gasoline	7/8/99	250	ND	210	ug/l	60.0-140	**84.0**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.04*	"	*70.0-130*	*80.4*			
Matrix Spike Dup	**9070012-MSD1**		**L906294-03**							
Purgeable Hydrocarbons as Gasoline	7/8/99	250	ND	213	ug/l	60.0-140	**85.2**	25.0	**1.42**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.70*	"	*70.0-130*	*77.0*			
Batch: 9070013	**Date Prepared: 7/4/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9070013-BLK1**									
Purgeable Hydrocarbons as Gasoline	7/4/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.38*	"	*70.0-130*	*83.8*			
LCS	**9070013-BS1**									
Purgeable Hydrocarbons as Gasoline	7/4/99	250		217	ug/l	70.0-130	86.8			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.50*	"	*70.0-130*	*85.0*			
Matrix Spike	**9070013-MS1**		**L906299-06**							
Purgeable Hydrocarbons as Gasoline	7/4/99	250	ND	227	ug/l	60.0-140	**90.8**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.3*	"	*70.0-130*	*103*			
Matrix Spike Dup	**9070013-MSD1**		**L906299-06**							
Purgeable Hydrocarbons as Gasoline	7/4/99	250	ND	222	ug/l	60.0-140	**88.8**	25.0	**2.23**	

Sequoia Analytical - San Carlos

**Refer to end of report for text of notes and definitions.*

Sequoia Analytical

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

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/22/99
1680 Rogers Avenue	Project Number:	Shell 540 Hegenberger, Oakland/990622-T1	Received: 6/23/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 7/11/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike Dup (continued)	**9070013-MSD1**		**L906299-06**							
Surrogate: a,a,a-Trifluorotoluene	*7/4/99*	*10.0*		*9.10*	*ug/l*	*70.0-130*	*91.0*			

Sequoia Analytical

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

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/22/99
1680 Rogers Avenue	Project Number:	Shell 540 Hegenberger, Oakland/990622-T1	Received: 6/23/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 7/11/99

MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9070063	**Date Prepared: 7/16/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9070063-BLK1**									
Methyl tert-butyl ether	7/16/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*56.1*	"	*76.0-114*	*112*			
LCS	**9070063-BS1**									
Methyl tert-butyl ether	7/16/99	50.0		51.1	ug/l	70.0-130	102			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*52.6*	"	*76.0-114*	*105*			
Matrix Spike	**9070063-MS1**		**L907033-02**							
Methyl tert-butyl ether	7/16/99	50.0	ND	83.4	ug/l	60.0-140	**111**			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*55.2*	"	*76.0-114*	*110*			
Matrix Spike Dup	**9070063-MSD1**		**L907033-02**							
Methyl tert-butyl ether	7/16/99	50.0	ND	80.6	ug/l	60.0-140	**105**	25.0	**5.56**	
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*54.0*	"	*76.0-114*	*108*			

Sequoia Analytical

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

Blaine Tech Services	Project:	Shell(2)	Sampled:	6/22/99
1680 Rogers Avenue	Project Number:	Shell 540 Hegenberger, Oakland/990622-T1	Received:	6/23/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported:	7/11/99

Notes and Definitions

#	Note
1	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

BLAINE TECH SERVICES INC.
1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY 990622-T1

CLIENT: Equiva - Karen Petryna

SITE: 540 Hegenberger Road
Oakland, CA
L906299

SAMPLE I.D.		MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW2	930	W	3		X	X					Confirm highest			
MW3	945	W	3		X	X					hit of MTBE			
A	1020	W	3		X	X					by 8260. AP			
B	1030	W	2		X	X					ABCD AP			
C	1105	W	2		X	X								
D	1053	W	3		X	X								

CONDUCT ANALYSIS TO DETECT

LAB: SEQUOIA DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
- ☐ EPA
- ☐ LIA
- ☐ OTHER
- ☐ RWQCB REGION

SPECIAL INSTRUCTIONS
Send invoice to Equiva
Incident # 98995752
Send report to Blaine Tech Services
Attn: Ann Pember

Revised COC
6/24/99 AP

SAMPLING COMPLETED	DATE	TIME
	6/22/99	

SAMPLING PERFORMED BY: Mike Toll

RESULTS NEEDED NO LATER THAN

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	6/23/99	9:15		6/23/99	915
				DATE	TIME
	DATE	TIME	RECEIVED BY		
				DATE	TIME
	DATE	TIME	RECEIVED BY	062499	1630

DATE SENT	TIME SENT	COOLER #

WELL GAUGING DATA

Project # 990622-T1 Date 6/22/99 Client 204-5508-5900

Site 540 Hagenberger, 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	
MW 1	2					9.05	24.25	TOC	
MW2	2					7.10	19.41		
MW 3	2					7.00	19.36		
A	12					4.71	12.10		
B	4					5.90	9.88		
C	4					5.91	12.00		
D	12					4.78	12.38		

EQUIVA WELL MONITORING DATA SHEET

Project #: 990022-T1	Job # 204-5508-5900
Sampler: MT	Date: 6/22
Well I.D.: MW1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.25	Depth to Water: 9.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Middleburg / Electric Submersible / (Extraction Pump) / Other: ___

Sampling Method: Bailer / Extraction Port / Other: Disp.

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume
___	X	NO Purge	=	___ Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
934	60.5	7.2	4715	310.1	—	

Did well dewater? Yes (No)		Gallons actually evacuated: —	
Sampling Time: 940		Sampling Date: 6/22	
Sample I.D.: MW1		Laboratory: (Sequoia) BC Other ___	
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D		Other:	
D.O. (if req'd):	Pre-purge: 1.7 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 990622-T1	Job # 204-5508-5900
Sampler: MT	Date: 4/22
Well I.D.: MW2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.41	Depth to Water: 7.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Extraction Port / Other: Disp.

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
925	68.3	6.4	627	19.2	—	

Did well dewater? Yes (No)		Gallons actually evacuated: —	
Sampling Time: 930		Sampling Date: 4/22	
Sample I.D.: MW2		Laboratory: (Sequoia) BC Other ___	
Analyzed for: (TPH-G) ~~BTEX~~ ~~MTBE~~ TPH-D		Other:	
D.O. (if req'd):	(Pre-purge): 1.9 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 990622-T1	Job # 204-5508-5900
Sampler: MT	Date: 6/22
Well I.D.: MW3	Well Diameter: 2 3 4 6 8 ___
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / ~~Middleburg~~ / Electric Submersible / ~~Extraction Pump~~ / Other: ____

Sampling Method: Bailer / ~~Extraction Port~~ / Other: Disp.

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
943	69.4	7.2	6154	38.6	—	

Did well dewater? Yes (No)		Gallons actually evacuated: ✓	
Sampling Time: 945		Sampling Date: 6/22	
Sample I.D.: MW3		Laboratory: (Sequoia) BC Other ____	
Analyzed for: (TPH-G BTEX MTBE) TPH-D		Other:	
D.O. (if req'd):	Pre-purge: 1.3 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 990622-T1	Job # 204-5508-5900
Sampler: MT	Date: 6/22
Well I.D.: A	Well Diameter: 2 3 4 6 8 12"
Total Well Depth: 12.10	Depth to Water: 4.71
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163 7.35 5.87

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

Sampling Method: Bailer / Extraction Port / Other: _____

43.3	X	3	=	129.9 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1005	71.6	7.3	8360	19.9	44	
1010	70.3	7.3	8467	18.1	88	
1015	69.4	7.3	8487	13.3	130	

Did well dewater? Yes (No)		Gallons actually evacuated: 130	
Sampling Time: 1020		Sampling Date: 6/22	
Sample I.D.: A		Laboratory: Sequoia BC Other_____	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
D.O. (if req'd): Pre-purge:	1.1 mg/L	Post-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 990692-T1	Job # 204-5508-5900
Sampler: MT	Date: 4/22
Well I.D.: B	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 9.88	Depth to Water: 5.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

Purge Method: Bailer / Middleburg / (Electric Submersible) / Extraction Pump / Other: ____

Sampling Method: (Bailer) / Extraction Port / Other: ____

1 Case Volume (Gals.)	X	Specified Volumes	=	Calculated Volume
2.6	X	3	=	7.8 Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1025	71.7	6.9	1013	12.6	3	
1026	71.6	6.8	755	9.3	6	
1027	71.3	6.7	744	9.0	8	

Did well dewater? Yes (No)		Gallons actually evacuated: 8	
Sampling Time: 1030		Sampling Date: 4/22	
Sample I.D.: B		Laboratory: (Sequoia) BC Other ____	
Analyzed for: ~~TPH-G~~ ~~BTEX~~ MTBE TPH-D		Other:	
D.O. (if req'd): (Pre-purge)	1.2 mg/L	Post-purge:	mg/L
O.R.P. (if req'd): Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 990622-T1	Job # 204-5308-5900
Sampler: MT	Date: 6/22
Well I.D.: C	Well Diameter: 2 3 ~~4~~ 6 8 ____
Total Well Depth: 12.00	Depth to Water: 5.91
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: ~~PVC~~ Grade	D.O. Meter (if req'd): ~~YSI~~ HACH

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

Purge Method: Bailer / Middleburg / Electric Submersible / ~~Extraction Pump~~ / Other: ____

Sampling Method: Bailer / Extraction Port / Other: ____

4	x	3	=	12 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1057	71.3	6.7	921	26.1	4	
1058	71.3	6.7	773	19.3	8	
1059	71.8	6.6	770	12.8	12	

Did well dewater? Yes (No)		Gallons actually evacuated: 12	
Sampling Time: 1105		Sampling Date: 6/22	
Sample I.D.: C		Laboratory: ~~Sequoia~~ BC Other____	
Analyzed for: ~~TPH-G~~ BTEX ~~MTBE~~ TPH-D		Other:	
D.O. (if req'd):	Pre-purge: 1.10 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 990622-T1	Job # 204-5508-5900
Sampler: MT	Date: 6/22
Well I.D.: D	Well Diameter: 2 3 4 6 8 12
Total Well Depth: 12.39	Depth to Water: 4.78
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163 5.87

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

Sampling Method: Bailer / Extraction Port / Other: _____

44.7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 134.1 Gals. (Calculated Volume)

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1040	70.6	6.9	1224	12.8	45	
1045	70.9	6.8	976	10.0	90	
1050	71.0	6.8	912	9.3	135	

Did well dewater? Yes / No — Gallons actually evacuated: 135

Sampling Time: 1053 — Sampling Date: 6/22

Sample I.D.: D — Laboratory: Sequoia / BC / Other _____

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:	mV	Post-purge:	mV