RO-281

CAMBRIA

MAY 03 2002

April 30, 2002

Ms. eva chu
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

Re: **First Quarter 2002 Groundwater Monitoring Report**
BP Oil Site No. 11104
1716 Webster Street
Alameda, California
Cambria Project No. 852-1739

Dear Ms. chu:

On behalf of BP Oil Company, Cambria Environmental Technology, Inc. has prepared this *First Quarter 2002 Groundwater Monitoring Report* for the above referenced site. This report summarizes chemical data collected since 1992 including analytical results associated with samples recently collected on February 4, 2002.

Water level and analytical results for this monitoring event are summarized in Figure 1 and on Table 1 of Appendix A. Based on the contoured elevations for the site and an adjacent Chevron-branded site, water generally flowed northward with local radial flow away from the underground storage tanks. During this monitoring event, only well MW-1 reported more than 100 micrograms per liter (µg/L) of benzene, with a concentration of 176 µg/L. Only well MW-1 reported more than 1,000 µg/L of methyl tert butyl ether (MTBE), with a concentration of 2,470 µg/L.

Benzene and MTBE concentrations and water level trends for wells MW-1 and RW-1 are shown in Figure 2 and Figure 3. Analytical results below method reporting limits are plotted at one half the detection limit (open symbol).

Oakland, CA
San Ramon, CA
Sonoma, CA

Cambria Environmental Technology, Inc.

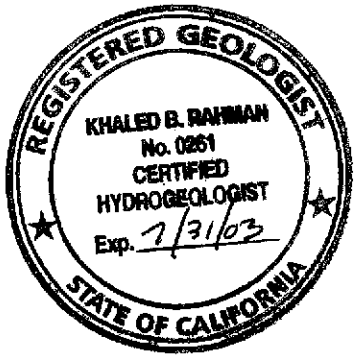
1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

CAMBRIA

We appreciate the opportunity to work with you on this project. If you have any questions or comments, please don't hesitate to call me at (510) 450-1985.

Sincerely,
Cambria Environmental Technology, Inc.

Khaled Rahman, R.G., C.H.G.
Associate Geologist



Attachments

Figure 1 – Groundwater Elevation Contour Map
Figure 2 – Concentration and Water Level Trends – Well MW-1
Figure 3 – Concentration and Water Level Trends – Well RW-1

Appendix A – Blaine Tech Services, Inc., 1st Quarter 2002 Monitoring at 11104

cc: Scott Hooton, BP Oil Company, Environmental Resources Management, 295 SW 41st Street, Building 13, Suite N, Renton, Washington 98055-4931 (1 original)
Dave Camille, Tosco Marketing Company, 2000 Crow Canyon Place, Suite 400, San Ramon, California 95118-3686 (1 copy)

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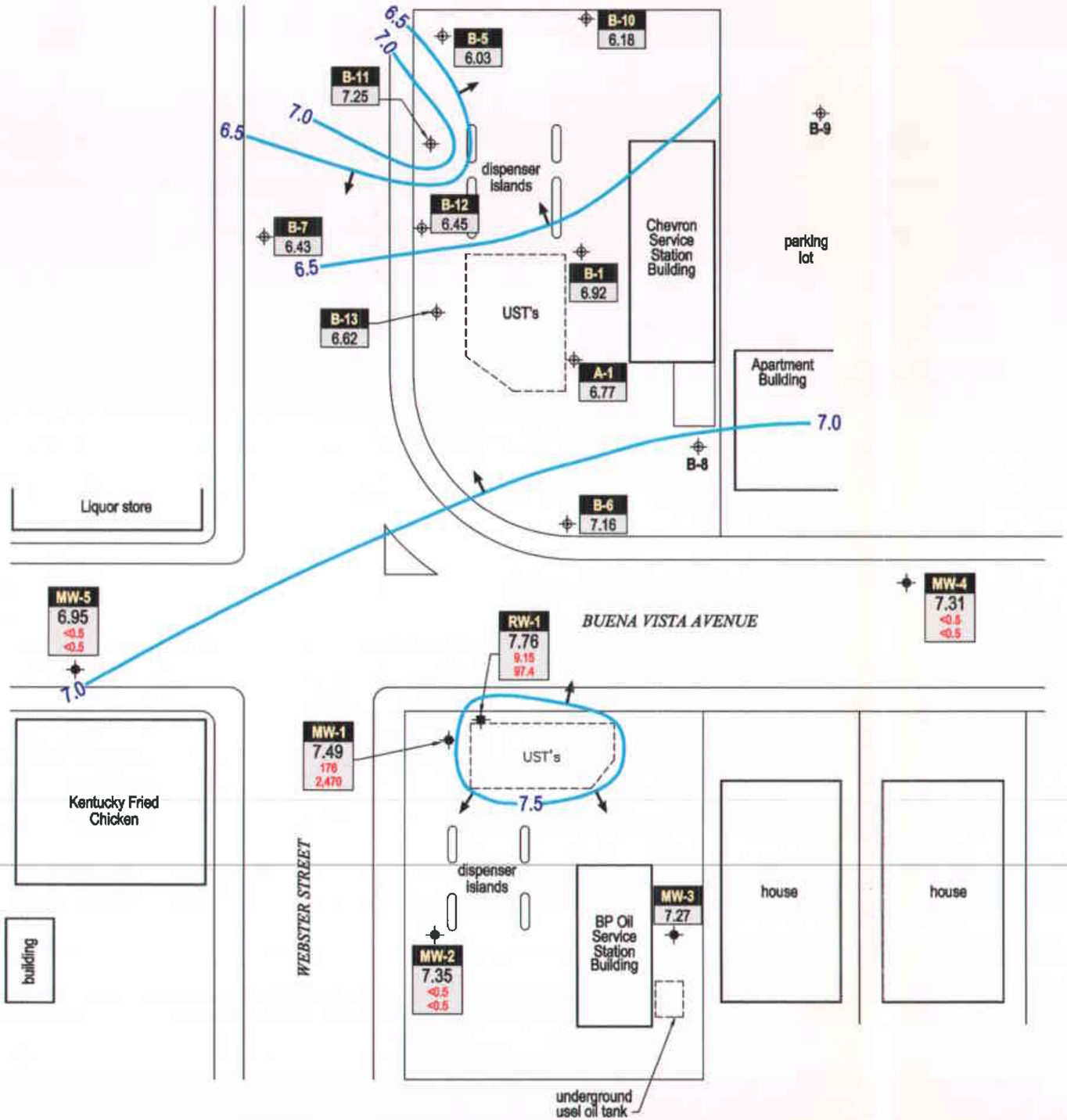
FIGURES

03/18/02



EXPLANATION

- MW-1 — Monitoring well location
- RW-1 — Groundwater recovery well
- B-1 — Chevron Monitoring well location
- → — Groundwater flow direction. Approximate horizontal hydraulic gradient = xxx
- xx.xx — Groundwater elevation contour, in feet above mean sea level (msl), dashed where inferred
- Well / ELEV / Benzene / MTBE — Well designation; Groundwater elevation (msl); Benzene and MTBE concentrations are in micrograms per liter (µg/L)

0 20 40 80

Scale (ft)

FIGURE

1

Groundwater Elevation Contour Map

February 4, 2002

CAMBRIA

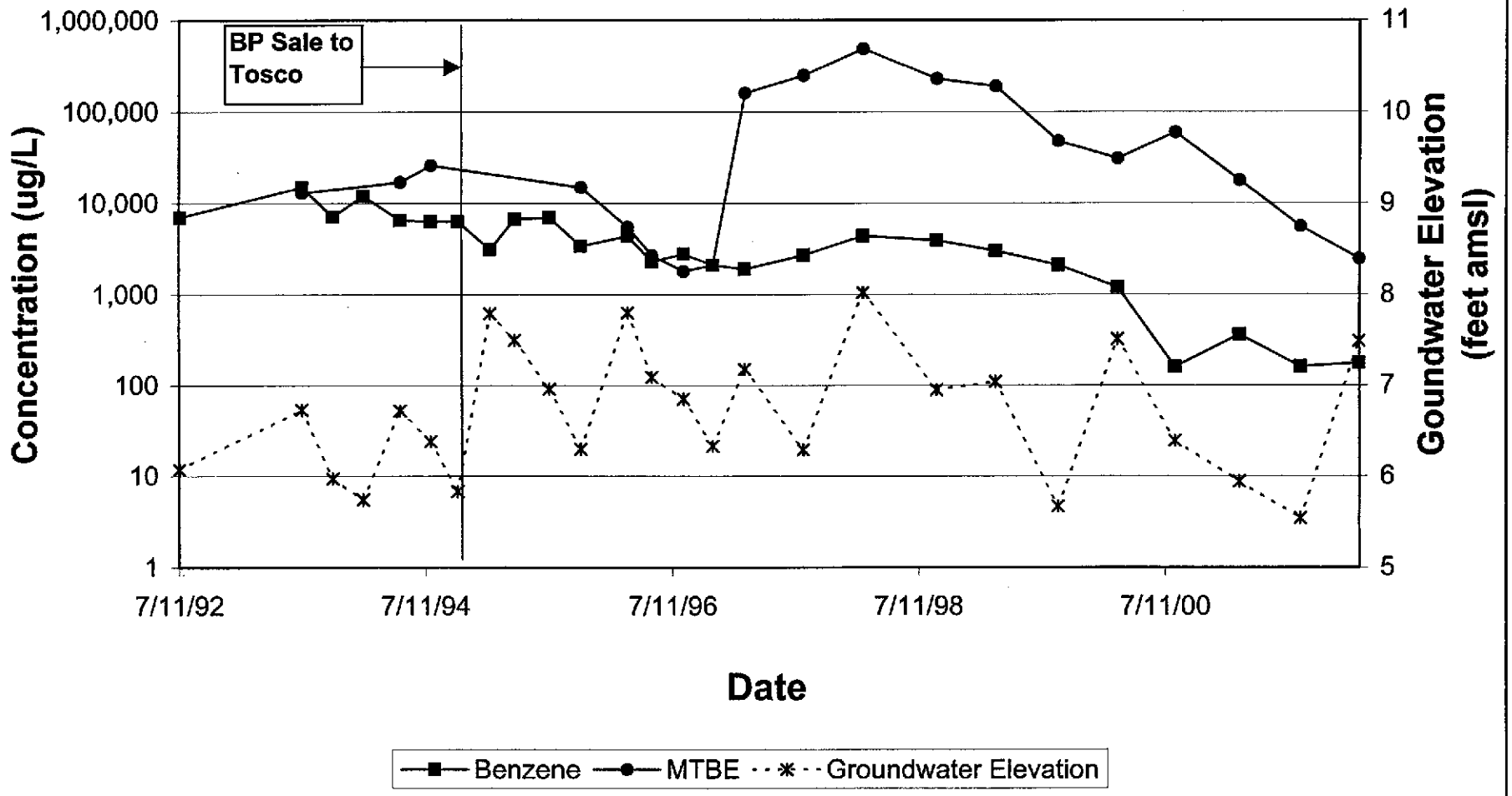
BP Oil Site No. 11104

1716 Webster Street

Alameda, CA

H:\BP\11104 ALAMEDA\FIGURES\11104-1002.DWG

Concentration and Water Level Trends
Well MW-1

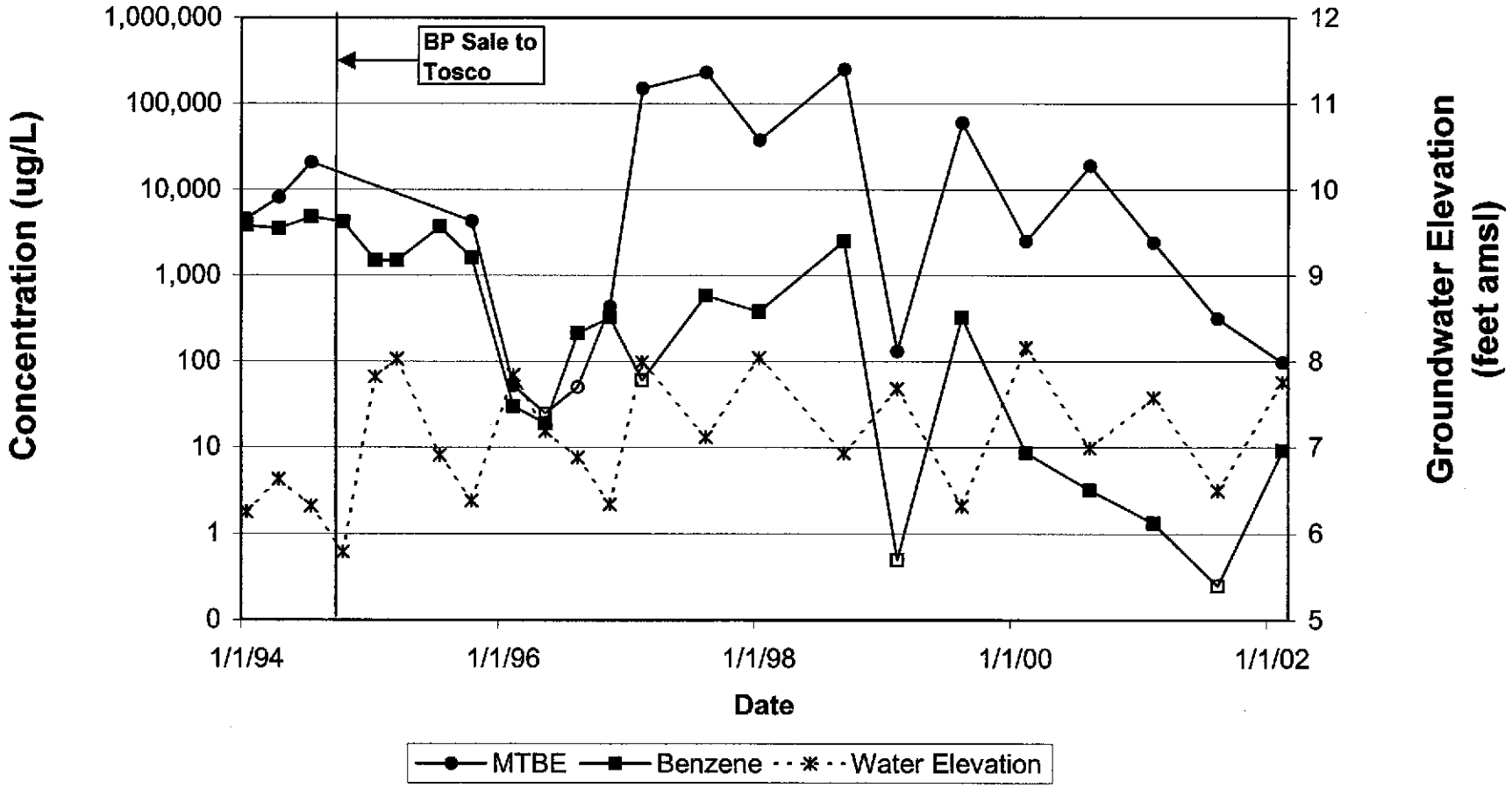


BP Oil Site No. 11104
1716 Webster Street
Alameda, California

Cambria Environmental Technology, Inc.

Figure 2

Concentration and Water Level Trends
Well RW-1



BP Oil Site No. 11104
1716 Webster Street
Alameda, California

Cambria Environmental Technology, Inc.

Figure 3

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APPENDIX A

Blaine Tech Services, Inc.
1st Quarter 2002 Monitoring

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

February 13, 2002

Ms. Cindy Magyar
Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112

RE: Lab Project Number: 8525858
Client Project ID: BP Site# 11104

Dear Ms. Magyar:

Enclosed are the analytical results for sample(s) received by the laboratory on February 6, 2002. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Paula Kirtley
pkirtley@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112

Lab Project Number: 8525858
Client Project ID: BP Site# 11104

Attn: Ms. Cindy Magyar
Phone:

Lab Sample No: 851737681 Project Sample Number: 8525858-001 Date Collected: 02/04/02 10:55
Client Sample ID: MW-1 Matrix: Water Date Received: 02/06/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	Ftnote	Reg Limi
GC Volatiles								
GAS by Mod 8015, Water	Prep/Method: EPA 8015 Modified / EPA 8015 Modified							
Gasoline Range Organics	17000	ug/l	1200	25.0	02/12/02 11:57	WRIC		
1,4-Difluorobenzene (S)	95	%		1.0	02/12/02 11:57	WRIC		
4-Bromofluorobenzene (S)	85	%		1.0	02/12/02 11:57	WRIC 460-00-4		
SW8021 Aromatics, Water	Prep/Method: See analytical method / EPA 8021							
Benzene	176.	ug/l	12.5	25.0	02/12/02 11:57	WRIC 71-43-2		
Ethylbenzene	538.	ug/l	12.5	25.0	02/12/02 11:57	WRIC 100-41-4		
Toluene	57.9	ug/l	12.5	25.0	02/12/02 11:57	WRIC 108-88-3		
Xylene (Total)	1670	ug/l	25.0	25.0	02/12/02 11:57	WRIC 1330-20-7		
Methyl-tert-butyl ether	2470	ug/l	12.5	25.0	02/12/02 11:57	WRIC 1634-04-4		
1,4-Difluorobenzene (S)	105	%		1.0	02/12/02 11:57	WRIC		
4-Bromofluorobenzene (S)	99	%		1.0	02/12/02 11:57	WRIC 460-00-4		

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

Lab Project Number: 8525858
Client Project ID: BP Site# 11104

Lab Sample No: 851737682 Project Sample Number: 8525858-002 Date Collected: 02/04/02 10:35
Client Sample ID: MW-2 Matrix: Water Date Received: 02/06/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limi
GC Volatiles									
GAS by Mod 8015, Water	Prep/Method: EPA 8015 Modified / EPA 8015 Modified								
Gasoline Range Organics	ND	ug/l	50.	1.0	02/12/02 10:37	WRIC			
1,4-Difluorobenzene (S)	84	%		1.0	02/12/02 10:37	WRIC			
4-Bromofluorobenzene (S)	81	%		1.0	02/12/02 10:37	WRIC	460-00-4		
SW8021 Aromatics, Water	Prep/Method: See analytical method / EPA 8021								
Benzene	ND	ug/l	0.500	1.0	02/12/02 10:37	WRIC	71-43-2		
Ethylbenzene	ND	ug/l	0.500	1.0	02/12/02 10:37	WRIC	100-41-4		
Toluene	ND	ug/l	0.500	1.0	02/12/02 10:37	WRIC	108-88-3		
Xylene (Total)	ND	ug/l	1.00	1.0	02/12/02 10:37	WRIC	1330-20-7		
Methyl-tert-butyl ether	ND	ug/l	0.500	1.0	02/12/02 10:37	WRIC	1634-04-4		
1,4-Difluorobenzene (S)	100	%		1.0	02/12/02 10:37	WRIC			
4-Bromofluorobenzene (S)	97	%		1.0	02/12/02 10:37	WRIC	460-00-4		

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900 Gemini Avenue
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Phone: 281.488.1810
Fax: 281.488.4661

Lab Project Number: 8525858
Client Project ID: BP Site# 11104

Lab Sample No: 851737683 Project Sample Number: 8525858-003 Date Collected: 02/04/02 09:55
Client Sample ID: MW-4 Matrix: Water Date Received: 02/06/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	Ftnote	Reg Limi
GC Volatiles								
GAS by Mod 8015, Water	Prep/Method: EPA 8015 Modified / EPA 8015 Modified							
Gasoline Range Organics	ND	ug/l	50.	1.0	02/12/02 10:57	WRIC		
1,4-Difluorobenzene (S)	85	%		1.0	02/12/02 10:57	WRIC		
4-Bromofluorobenzene (S)	81	%		1.0	02/12/02 10:57	WRIC 460-00-4		
SW8021 Aromatics, Water	Prep/Method: See analytical method / EPA 8021							
Benzene	ND	ug/l	0.500	1.0	02/12/02 10:57	WRIC 71-43-2		
Ethylbenzene	ND	ug/l	0.500	1.0	02/12/02 10:57	WRIC 100-41-4		
Toluene	ND	ug/l	0.500	1.0	02/12/02 10:57	WRIC 108-88-3		
Xylene (Total)	ND	ug/l	1.00	1.0	02/12/02 10:57	WRIC 1330-20-7		
Methyl-tert-butyl ether	ND	ug/l	0.500	1.0	02/12/02 10:57	WRIC 1634-04-4		
1,4-Difluorobenzene (S)	100	%		1.0	02/12/02 10:57	WRIC		
4-Bromofluorobenzene (S)	96	%		1.0	02/12/02 10:57	WRIC 460-00-4		

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

Lab Project Number: 8525858
Client Project ID: BP Site# 11104

Lab Sample No: 851737684 Project Sample Number: 8525858-004 Date Collected: 02/04/02 10:20
Client Sample ID: MW-5 Matrix: Water Date Received: 02/06/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed		CAS No.	Ftnote	Reg Limi
GC Volatiles									
GAS by Mod 8015, Water	Prep/Method: EPA 8015 Modified / EPA 8015 Modified								
Gasoline Range Organics	ND	ug/l	50.	1.0	02/12/02 11:17	WRIC			
1,4-Difluorobenzene (S)	84	%		1.0	02/12/02 11:17	WRIC			
4-Bromofluorobenzene (S)	81	%		1.0	02/12/02 11:17	WRIC	460-00-4		
SW8021 Aromatics, Water	Prep/Method: See analytical method / EPA 8021								
Benzene	ND	ug/l	0.500	1.0	02/12/02 11:17	WRIC	71-43-2		
Ethylbenzene	ND	ug/l	0.500	1.0	02/12/02 11:17	WRIC	100-41-4		
Toluene	ND	ug/l	0.500	1.0	02/12/02 11:17	WRIC	108-88-3		
Xylene (Total)	ND	ug/l	1.00	1.0	02/12/02 11:17	WRIC	1330-20-7		
Methyl-tert-butyl ether	ND	ug/l	0.500	1.0	02/12/02 11:17	WRIC	1634-04-4		
1,4-Difluorobenzene (S)	99	%		1.0	02/12/02 11:17	WRIC			
4-Bromofluorobenzene (S)	96	%		1.0	02/12/02 11:17	WRIC	460-00-4		

REPORT OF LABORATORY ANALYSIS

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Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

Lab Project Number: 8525858
Client Project ID: BP Site# 11104

Lab Sample No: 851737685 Project Sample Number: 8525858-005 Date Collected: 02/04/02 11:15
Client Sample ID: RW-1 Matrix: Water Date Received: 02/06/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	Ftnote	Reg Limi
GC Volatiles								
GAS by Mod 8015, Water	Prep/Method: EPA 8015 Modified / EPA 8015 Modified							
Gasoline Range Organics	570	ug/l	50.	1.0	02/12/02 12:17	WRIC		
1,4-Difluorobenzene (S)	86	%		1.0	02/12/02 12:17	WRIC		
4-Bromofluorobenzene (S)	85	%		1.0	02/12/02 12:17	WRIC 460-00-4		
SW8021 Aromatics, Water	Prep/Method: See analytical method / EPA 8021							
Benzene	9.15	ug/l	0.500	1.0	02/12/02 12:17	WRIC 71-43-2		
Ethylbenzene	19.2	ug/l	0.500	1.0	02/12/02 12:17	WRIC 100-41-4		
Toluene	0.874	ug/l	0.500	1.0	02/12/02 12:17	WRIC 108-88-3		
Xylene (Total)	83.8	ug/l	1.00	1.0	02/12/02 12:17	WRIC 1330-20-7		
Methyl-tert-butyl ether	97.4	ug/l	0.500	1.0	02/12/02 12:17	WRIC 1634-04-4		
1,4-Difluorobenzene (S)	103	%		1.0	02/12/02 12:17	WRIC		
4-Bromofluorobenzene (S)	101	%		1.0	02/12/02 12:17	WRIC 460-00-4		

REPORT OF LABORATORY ANALYSIS

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900 Gemini Avenue
Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

Lab Project Number: 8525858
Client Project ID: BP Site# 11104

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
(S) Surrogate

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900 Gemini Avenue
Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

QUALITY CONTROL DATA

Lab Project Number: 8525858
Client Project ID: BP Site# 11104

QC Batch: 65305 Analysis Method: EPA 8021
QC Batch Method: See analytical method Analysis Description: SW8021 Aromatics, Water
Associated Lab Samples: 851737681 851737682 851737683 851737684 851737685

METHOD BLANK: 851738618
Associated Lab Samples: 851737681 851737682 851737683 851737684 851737685

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	0.500	
Ethylbenzene	ug/l	ND	0.500	
Toluene	ug/l	ND	0.500	
Xylene (Total)	ug/l	ND	1.50	
Methyl-tert-butyl ether	ug/l	ND	0.500	
1,4-Difluorobenzene (S)	%	100		
4-Bromofluorobenzene (S)	%	96		

LABORATORY CONTROL SAMPLE: 851738619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50	45.93	92	
Ethylbenzene	ug/l	50	51.56	103	
Toluene	ug/l	50	48.71	97	
Xylene (Total)	ug/l	100	101.5	101	
Methyl-tert-butyl ether	ug/l	50	43.65	87	
1,4-Difluorobenzene (S)				100	
4-Bromofluorobenzene (S)				99	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851738620 851738621

Parameter	Units	851737682 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	0	50.00	44.08	43.88	88	88	0	
Ethylbenzene	ug/l	0	50.00	50.16	50.48	100	101	1	
Toluene	ug/l	0	50.00	47.30	47.29	95	95	0	
Xylene (Total)	ug/l	0	100.00	96.90	98.02	97	98	1	

REPORT OF LABORATORY ANALYSIS

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Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

QUALITY CONTROL DATA

Lab Project Number: 8525858
Client Project ID: BP Site# 11104

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851738620 851738621

Parameter	Units	851737682 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Methyl-tert-butyl ether	ug/l	0	50.00	41.14	41.89	82	84	2	
1,4-Difluorobenzene (S)						100	101		
4-Bromofluorobenzene (S)						99	99		

REPORT OF LABORATORY ANALYSIS

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www.pacelabs.com

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900 Gemini Avenue
Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

QUALITY CONTROL DATA

Lab Project Number: 8525858
Client Project ID: BP Site# 11104

QC Batch: 65306 Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 8015 Modified Analysis Description: GAS by Mod 8015, Water
Associated Lab Samples: 851737681 851737682 851737683 851737684 851737685

METHOD BLANK: 851738622
Associated Lab Samples: 851737681 851737682 851737683 851737684 851737685

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Gasoline Range Organics	ug/l	ND	50.	
1,4-Difluorobenzene (S)	%	84		
4-Bromofluorobenzene (S)	%	82		

LABORATORY CONTROL SAMPLE: 851738623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Gasoline Range Organics	ug/l	1000	931.4	93	
1,4-Difluorobenzene (S)				104	
4-Bromofluorobenzene (S)				86	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851738624 851738625

Parameter	Units	851737682 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Gasoline Range Organics	ug/l	15.20	1000.00	939.7	970.0	92	96	3	
1,4-Difluorobenzene (S)						104	105		
4-Bromofluorobenzene (S)						88	89		

REPORT OF LABORATORY ANALYSIS

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900 Gemini Avenue
Houston, TX 77058
Phone: 281.488.1810
Fax: 281.488.4661

Lab Project Number: 8525858
Client Project ID: BP Site# 11104

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
RPD Relative Percent Difference
(S) Surrogate

REPORT OF LABORATORY ANALYSIS

BP

CHAIN OF CUSTODY

852858

Page 1 of 1

CONSULTANT'S NAME	CONSULTANT'S ADDRESS		
Blaine Tech Services, Inc.	1680 Rogers Ave., San Jose CA 95112		
BP SITE NUMBER / GLOBAL ID	BP SITE / FACILITY ADDRESS		CONSULTANT PROJECT NUMBER
11104 / T0600101651	1716 Webster St., Alameda		020204-An-1
CONSULTANT PROJECT MANAGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER
Cindy Magyar	(408) 573-0555 x 221	(408) 573-7771	J966553
BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.
Scott Hooton	295 SW 41st Street, Suite N, Renton WA	(425) 251-0689	(425) 251-0736
LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.
Pace - Paula Kirtley	900 Gemini Ave., Houston, TX 77058	(281) 488-1810	(281) 488-4661

BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name)	RUSH REQUESTED OF (Print Consultant Contact Name)	DATE/TIME	SHIPMENT DATE	SHIPMENT METHOD

TAT: ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☒ Standard 7 or 14 Days

ANALYSIS REQUIRED

AIRBILL NUMBER

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL)	PRESERVATIVE LAB SAMPLE #	TPH-G + BTEX / MTBE (8015M) (8020)	TPH-D (8015M)	FUEL OXYGENATES (8260)	1,2 DCA + EDB (8010)						COMMENTS
MW-1	2-4-02	10:55	GW	3	40mL VOA		X									85173768 1
MW-2		10:35					X									682
MW-4		9:55					X									683
MW-5		10:20					X									684
RW-1		11:15					X									685

SAMPLED BY (Please Print Name): Albert Herrera

SAMPLED BY (Signature): Albert Herrera

RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY / AFFILIATION (Print Name / Signature)	DATE	TIME
Albert Herrera	2-5-02	14:00	AIRBORNE EXPRESS	2/5/02	1400
Ambare	2/6/02	8:50	Dgurce/Pace	2-6-02	8:50

ADDITIONAL COMMENTS

Temp -2.0°C

Field
Data
Sheets

MONITORING WELL OBSERVATION SUMMARY SHEET

CHEVRON #: 9-0290 G-R JOB #: 385980

LOCATION: 1802 Webster St. DATE: 2.4.02

CITY: Alameda, CA TIME:

Well ID	Total Depth	Depth to Water	Product Thickness	TOB or TOC	Comments VOL. PURGED
A-1	11.09	4.79	0	TOC	28.0
B-1	15.65	5.20			5.0
B-5	17.83	4.15			7.0
B-6	18.12	4.81			7.0
B-7	12.98	4.11			4.5
B-10	16.03	5.24			3.0
B-11	14.03	4.73			5.0
B-12	15.70	4.71			6.0
B-13	13.64	4.55			5.0
					70.5 TOTAL

Comments:

Sampler: FT Assistant:

WELL GAUGING DATA

Project # 020204-M-1 Date 2-4-02 Client B.P.

Site 1716 Webster St - Alameda

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					4.49	15.62		
MW-2	2					5.63	15.69		
MW-3	2	obstruction in well				6.11	—		
MW-4	2					4.48	14.64		
MW-5	2					4.63	14.60		
RW-1	6					4.06	22.35		

BP WELL MONITORING DATA SHEET

Project #: 020704-AM-1	Station # 11104
Sampler: AM	Date: 2-4-02
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 15.82	Depth to Water: 4.49
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
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

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

Sampling Method: Bailer (Disposable Bailer) Extraction Port Other: ___

1.6 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 5.4 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:46	60.4	6.6	580	2	sheen/cloudy
10:46	60.6	6.7	610	4	dark/sheen/odor
10:50	60.5	6.6	620	6	" "

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Time: 10:55 Sampling Date: 2-4-02

Sample I.D. (Blind): MW-1 Laboratory: (Pace) Other ___

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

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

BP WELL MONITORING DATA SHEET

Project #: 020204-AM-1	Station # 11104
Sampler: AM	Date: 2-4-02
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 15.69	Depth to Water: 5.63
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
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

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

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Other: ___

1.6 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 4.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:28	61.6	6.6	612	2	light brown
10:31	63.9	6.6	664	4	" "
10:34	63.6	6.6	662	6	" "

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Time: 10:35 Sampling Date: 2-4-02

Sample I.D. (Blind): MW-2 Laboratory: (Pace) Other ___

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

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

BP WELL MONITORING DATA SHEET

Project #: 020204-AM-1	Station # 11104
Sampler: AM	Date: 2-4-02
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 14.66	Depth to Water: 4.49
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
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

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

Sampling Method: Bailer (Disposable Bailer) Extraction Port Other: ___

1.6 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 4.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
9:46	58.6	6.0	675	2	Cloudy
9:50	59.7	6.1	464	4	" "
9:51	59.9	6.3	422	6	" "

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Time: 9:55 Sampling Date: 2-4-02

Sample I.D. (Blind): MW-4 Laboratory: (Pace) Other ___

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

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

BP WELL MONITORING DATA SHEET

Project #: 020204-AM-1	Station # 1104
Sampler: AM	Date: 2-4-02
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 14.60	Depth to Water: 4.63
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
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

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

Sampling Method: Bailer (Disposable Bailer) Extraction Port Other: ___

1.5 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 4.5 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
10:10	58.5	7.0	274	2	brown
10:12	59.0	6.9	204	4	" "
10:14	59.4	6.9	185	6	" "

Did well dewater? Yes (No) Gallons actually evacuated: 6

Sampling Time: 10:20 Sampling Date: 2-4-02

Sample I.D. (Blind): MW-5 Laboratory: (Pace) Other ___

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

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

BP WELL MONITORING DATA SHEET

Project #: 020704-AM-1	Station # 11104
Sampler: AM	Date:
Well I.D.: RW-1	Well Diameter: (2) 3 4 (6) 8 ___
Total Well Depth: 22.35	Depth to Water: 4.06
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
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Purge Method: Bailer ~~Disposable Bailer~~ Middleburg ~~Electric Submersible~~ Extraction Pump Other: ___

Sampling Method: Bailer (Disposable Bailer) Extraction Port Other: ___

26.6	X	3	=	80.4 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
11:06	59.6	6.5	323	27	Cloudy
11:08	60.5	6.2	276	54	" "
11:10	61.5	6.6	252	81	

Did well dewater? Yes (No)		Gallons actually evacuated: 81	
Sampling Time: 11:15		Sampling Date: 2-4-02	
Sample I.D. (Blind): RW-1		Laboratory: (Pace)	Other ___
Analyzed for: (TPH-G BTEX MTBE) TPH-D		Other:	
D.O. (if req'd):	Pre-purge:	mg/L Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV Post-purge:	mV

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February 26, 2002

Scott Hooton
BP Oil Company
295 SW 41st Street, Bldg. 13, Suite N
Renton, WA 98055-4931

1st Quarter 2002 Monitoring at 11104

First Quarter 2002 Groundwater Monitoring
BP Service Station Number 11104
1716 Webster Street
Alameda, CA

Monitoring Performed on February 4, 2002

Groundwater Sampling Report **020204-AM-1**

This report covers the routine monitoring of groundwater wells at this BP facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling 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, the appropriate calculated purge volume, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to Seaport Petroleum Corporation for disposal.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon 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,

Francis Thie
Vice President

FPT/mb

Cc: Khaled B. Rahman
Cambria Environmental Technology, Inc.
6262 Hollis Street
Emeryville, CA 94608

attachments: Cumulative Table of Well Data and Analytical Results
Analytical Appendix
Field Data Sheets

Table of
Well Data and
Analytical Results

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TDS (mg/L)	DO (ppm)	LAB
MW-1		07/21/92	11.98	5.91	6.07	34000	7000	1700	2500	6900	---		---	---	---
MW-1		10/20/92	11.98	6.66	5.32	---	---	---	---	---	---		---	---	---
MW-1		03/05/93	11.98	4.56	7.42	---	---	---	---	---	---		---	---	---
MW-1		04/01/93	11.98	4.57	7.41	---	---	---	---	---	---		---	---	---
MW-1		07/09/93	11.98	5.25	6.73	77000	15000	1400	2100	7400	11919	(c)(k)	---	---	PACE
QC-1	(d)	07/09/93	---	---	---	79000	16000	1500	2200	7700	12952	(c)(k)	---	---	PACE
MW-1		10/08/93	11.98	6.01	5.97	42000	7100	270	2700	4700	---	(k)	---	---	PACE
MW-1		01/06/94	11.98	6.24	5.74	45000	12000	4300	3000	6700	---	(k)	---	---	PACE
MW-1		04/26/94	11.98	5.26	6.72	39000	6500	500	1800	1200	16663	(c)(k)	---	6.3	PACE
MW-1		07/25/94	11.98	5.60	6.38	38000	6300	240	1500	1100	26428	(c)(k)	---	1.7	PACE
MW-1		10/13/94	11.98	6.15	5.83	25000	6300	130	1300	830	---	(k)	---	2.3	PACE
QC-1	(d)	10/13/94	---	---	---	25000	7300	120	1200	740	---	(k)	---	---	PACE
MW-1		01/17/95	11.98	4.19	7.79	7800	3100	1100	460	850	---		---	7.9	ATI
QC-1	(d)	01/17/95	---	---	---	8400	3100	1200	470	1000	---		---	---	ATI
MW-1		03/31/95	11.98	4.48	7.50	37000	6700	6900	1200	4500	---		---	6.4	ATI
QC-1	(d)	03/31/95	---	---	---	40000	6900	7300	1300	5000	---		---	---	ATI
MW-1		05/01/95	11.98	4.39	7.59	---	---	---	---	---	---		---	---	---
MW-1		07/12/95	11.98	5.02	6.96	29000	7000	300	1500	3900	---		---	7.2	ATI
QC-1	(d)	07/12/95	---	---	---	29000	6600	380	1500	3900	---		---	---	ATI
MW-1		10/12/95	11.98	5.68	6.30	20000	3400	310	1100	3000	15000		---	6.3	ATI
QC-1	(d)	10/12/95	---	---	---	20000	3500	310	1100	3000	14000		---	---	ATI
MW-1		02/27/96	11.98	4.18	7.80	18000	4400	2900	860	2380	5500		472	7.9	SPL
MW-1		05/08/96	11.98	4.89	7.09	---	---	---	---	---	---		---	---	---
MW-1		05/09/96	11.98	---	---	14000	2300	1900	540	3340	2700		---	6.1	SPL
MW-1		08/09/96	11.98	5.13	6.85	---	---	---	---	---	---		---	---	---
MW-1		08/12/96	11.98	---	---	13000	2800	190	1300	3040	1800		---	7.1	SPL
MW-1		11/07/96	11.98	5.65	6.33	12000	2100	35	ND<25	ND<25	2100		---	7.2	SPL
MW-1		02/10/97	11.98	4.80	7.18	180000	1900	ND<500	ND<500	ND<500	160000		---	6.8	SPL
QC-1	(d)	02/10/97	---	---	---	180000	2100	ND<500	ND<500	ND<500	160000		---	---	SPL
MW-1		08/04/97	11.98	5.69	6.29	14000	2700	ND<50	1200	1220	250000		---	7.2	SPL
QC-1	(d)	08/04/97	---	---	---	ND<25000	2600	ND<50	1200	1100	260000		---	---	SPL
MW-1		01/27/98	11.98	3.96	8.02	390000	4400	4300	1600	2890	490000		---	6.4	SPL
MW-1		09/02/98	11.98	5.03	6.95	230000	3900	ND<50	1900	1000	230000		---	6.3	SPL
MW-1		02/24/99	11.98	4.94	7.04	82000	3000	520	2600	3200	190000/200000	(h)	---	---	SPL
MW-1		08/30/99	11.98	6.31	5.67	11000	2100	ND<25	1800	580	48000		---	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TDS (mg/L)	DO (ppm)	LAB
MW-1	02/21/00	11.98	4.47	7.51	12000	(i)	1200	250	930	1800	31000	---	---	PACE
MW-1	08/08/00	11.98	5.59	6.39	4500		160	2.8	76	88	60000	---	---	PACE
MW-1	02/12/01	11.98	6.04	5.94	14000		363	ND<12.5	108	293	18000	---	---	PACE
MW-1	08/13/01	11.98	6.44	5.54	14000		161	17.1	255	545	5590	---	---	PACE
MW-1	02/04/02	11.98	4.49	7.49	17000		176	57.9	538	1670	2470	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TDS (mg/L)	DO (ppm)	LAB
MW-2	07/21/92	12.98	6.44	6.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---		---	---	---
MW-2	10/20/92	12.98	7.39	5.59	---	---	---	---	---	---		---	---	---
MW-2	03/05/93	12.98	4.91	8.07	---	---	---	---	---	---		---	---	---
MW-2	04/01/93	12.98	4.92	8.06	---	---	---	---	---	---		---	---	---
MW-2	07/09/93	12.98	5.60	7.38	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	---	PACE
MW-2	10/08/93	12.98	6.50	6.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	---	PACE
QC-1 (d)	10/08/93	12.98	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	---	PACE
MW-2	01/06/94	12.98	6.25	6.73	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	---	PACE
MW-2	04/26/94	12.98	5.73	7.25	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	7.5	PACE
MW-2	07/25/94	12.98	6.07	6.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11.59	(k)	---	2.4	PACE
MW-2	10/13/94	12.98	6.80	6.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	2.4	PACE
MW-2	01/17/95	12.98	5.10	7.88	---	---	---	---	---	---		---	---	---
MW-2	03/31/95	12.98	4.69	8.29	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		---	7.3	ATI
MW-2	05/01/95	12.98	5.23	7.75	---	---	---	---	---	---		---	---	---
MW-2	07/12/95	12.98	5.40	7.58	---	---	---	---	---	---		---	---	---
MW-2	10/12/95	12.98	6.06	6.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	6.9	ATI
MW-2	02/27/96	12.98	4.66	8.32	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10		412	8.7	SPL
MW-2	05/08/96	12.98	5.28	7.70	---	---	---	---	---	---		---	---	---
MW-2	08/09/96	12.98	5.59	7.39	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	7.8	SPL
MW-2	11/07/96	12.98	6.11	6.87	---	---	---	---	---	---		---	---	---
MW-2	02/10/97	12.98	5.26	7.72	---	---	---	---	---	---		---	---	---
MW-2	08/04/97	12.98	6.14	6.84	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	6.5	SPL
MW-2	01/27/98	12.98	4.42	8.56	---	---	---	---	---	---		---	---	---
MW-2	09/02/98	12.98	5.47	7.51	100	0.56	3.6	ND<1.0	3.0	110		---	6.9	SPL
MW-2	02/24/99	12.98	5.12	7.86	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	8.2		---	---	SPL
MW-2	08/30/99	12.98	6.60	6.38	---	---	---	---	---	---		---	---	---
MW-2	02/21/00	12.98	4.64	8.34	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.72		---	---	PACE
MW-2	02/12/01	12.98	5.13	7.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5		---	---	PACE
MW-2	02/04/02	12.98	5.63	7.35	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5		---	---	PACE

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WELL ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TDS (mg/L)	DO (ppm)	LAB
MW-3	(e)	07/21/92	13.38	7.07	6.31	ND<50	0.95	ND<0.5	ND<0.5	ND<0.5	---		---	---	---
MW-3		10/20/92	13.38	8.06	5.32	---	---	---	---	---	---		---	---	---
MW-3		03/05/93	13.38	5.16	8.22	---	---	---	---	---	---		---	---	---
MW-3		04/01/93	13.38	5.25	8.13	---	---	---	---	---	---		---	---	---
MW-3		07/09/93	13.38	5.80	7.58	ND<50	0.6	ND<0.5	ND<0.5	ND<0.5	—	(k)	---	---	PACE
MW-3		10/08/93	13.38	7.17	6.21	ND<50	0.6	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	---	PACE
MW-3		01/06/94	13.38	6.94	6.44	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	(k)	---	---	PACE
MW-3		04/26/94	13.38	6.18	7.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	3.1	PACE
MW-3		07/25/94	13.38	6.67	6.71	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	2.2	PACE
MW-3		10/13/94	13.38	7.43	5.95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	(k)	---	2.1	PACE
MW-3		01/17/95	13.38	5.07	8.31	---	---	---	---	---	---		---	---	---
MW-3		03/31/95	13.38	4.03	9.35	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		---	6.6	ATI
MW-3		05/01/95	13.38	4.94	8.44	---	---	---	---	---	---		---	---	---
MW-3		07/12/95	13.38	5.80	7.58	—	—	—	—	—	—		—	—	—
MW-3		10/12/95	13.38	6.64	6.74	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	6.4	ATI
MW-3		02/27/96	13.38	4.75	8.63	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10		316	8.5	SPL
MW-3		05/08/96	13.38	5.86	7.52	—	—	—	—	—	—		—	—	—
MW-3		08/09/96	13.38	5.70	7.68	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	7.9	SPL
MW-3		11/07/96	13.38	6.21	7.17	---	---	---	---	---	---		---	---	---
MW-3		02/10/97	13.38	5.14	8.24	---	---	---	---	---	---		---	---	---
MW-3		08/04/97	13.38	6.01	7.37	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	6.6	SPL
MW-3		01/27/98	13.38	4.30	9.08	---	---	---	---	---	---		---	---	---
MW-3		09/02/98	13.38	5.80	7.58	ND<50	ND<0.5	2.2	ND<1.0	ND<1.0	ND<10		---	6.6	SPL
MW-3		02/24/99	13.38	4.34	9.04	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0		---	---	SPL
MW-3		08/30/99	13.38	6.59	6.79	---	---	---	---	---	---		---	---	---
MW-3		02/21/00	13.38	4.56	8.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5		---	---	PACE
MW-3	(j)	02/12/01	13.38	4.98	8.40	---	---	---	---	---	---		---	---	---
MW-3	(j)	02/04/02	13.38	6.11	7.27	—	—	—	—	—	—		—	—	—

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TDS (mg/L)	DO (ppm)	LAB
MW-4	03/05/93	11.80	4.81	6.99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---		---	---	---
MW-4	04/01/93	11.80	4.80	7.00	---	---	---	---	---	---		---	---	---
MW-4	07/09/93	11.80	5.54	6.26	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	---	PACE
MW-4	10/08/93	11.80	6.28	5.52	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	---	PACE
MW-4	01/06/94	11.80	5.82	5.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	---	PACE
MW-4	04/26/94	11.80	5.50	6.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	7.4	PACE
MW-4	07/25/94	11.80	5.83	5.97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	7.2	PACE
MW-4	10/13/94	11.80	6.26	5.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	6.7	PACE
MW-4	01/17/95	11.80	4.19	7.61	---	---	---	---	---	---		---	---	---
MW-4	03/31/95	11.80	3.96	7.84	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		---	7.1	ATI
MW-4	05/01/95	11.80	4.49	7.31	---	---	---	---	---	---		---	---	---
MW-4	07/12/95	11.80	5.16	6.64	---	---	---	---	---	---		---	---	---
MW-4	10/12/95	11.80	5.80	6.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	6.9	ATI
MW-4	02/27/96	11.80	4.22	7.58	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10		256	8.9	SPL
MW-4	05/08/96	11.80	5.00	6.80	---	---	---	---	---	---		---	---	---
MW-4	08/09/96	11.80	5.13	6.67	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	8.5	SPL
MW-4	11/07/96	11.80	5.65	6.15	---	---	---	---	---	---		---	---	---
MW-4	02/10/97	11.80	4.81	6.99	---	---	---	---	---	---		---	---	---
MW-4	08/04/97	11.80	5.72	6.08	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	6.4	SPL
MW-4	01/27/98	11.80	4.06	7.74	---	---	---	---	---	---		---	---	---
MW-4	09/02/98	11.80	4.89	6.91	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	5.8	SPL
MW-4	02/24/99	11.80	3.89	7.91	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0		---	---	SPL
MW-4	08/30/99	11.80	5.62	6.18	---	---	---	---	---	---		---	---	---
MW-4	02/21/00	11.80	4.00	7.80	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.66		---	---	PACE
MW-4	02/12/01	11.80	4.93	6.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.982		---	---	PACE
MW-4	02/04/02	11.80	4.49	7.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5		---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TDS (mg/L)	DO (ppm)	LAB
MW-5	04/01/93	11.62	4.77	6.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---		---	---	---
MW-5	07/09/93	11.62	5.40	6.22	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	---	PACE
MW-5	10/08/93	11.62	5.87	5.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	---	PACE
MW-5	01/06/94	11.62	5.75	5.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	---	PACE
MW-5	04/26/94	11.62	5.49	6.13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	7.1	PACE
MW-5	07/25/94	11.62	5.69	5.93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	6.6	PACE
MW-5	10/13/94	11.62	6.03	5.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	3.0	PACE
MW-5	01/17/95	11.62	4.74	6.88	---	---	---	---	---	---		---	---	---
MW-5	03/31/95	11.62	4.58	7.04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		---	7.1	ATI
MW-5	05/01/95	11.62	4.79	6.83	---	---	---	---	---	---		---	---	---
MW-5	07/12/95	11.62	5.32	6.30	---	---	---	---	---	---		---	---	---
MW-5	10/12/95	11.62	5.70	5.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	6.7	ATI
MW-5 (f)	02/27/96	11.62	---	---	---	---	---	---	---	---		---	---	---
MW-5	05/08/96	11.62	4.91	6.71	---	---	---	---	---	---		---	---	---
MW-5	08/09/96	11.62	5.01	6.61	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	7.7	SPL
MW-5	11/07/96	11.62	5.54	6.08	---	---	---	---	---	---		---	---	---
MW-5	02/10/97	11.62	4.66	6.96	---	---	---	---	---	---		---	---	---
MW-5	08/04/97	11.62	5.51	6.11	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	6.9	SPL
MW-5	01/27/98	11.62	4.01	7.61	---	---	---	---	---	---		---	---	---
MW-5	09/02/98	11.62	5.17	6.45	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10		---	6.4	SPL
MW-5	02/24/99	11.62	4.52	7.10	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0		---	---	SPL
MW-5	08/30/99	11.62	6.02	5.60	---	---	---	---	---	---		---	---	---
MW-5	02/21/00	11.62	4.62	7.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5		---	---	PACE
MW-5	02/12/01	11.62	4.80	6.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5		---	---	PACE
MW-5	02/04/02	11.62	4.63	6.99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5		---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)		B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TDS (mg/L)	DO (ppm)	LAB
RW-1		01/06/94	11.84	5.59	6.25	23000		3800	210	840	2100	4663	(c)(k)	---	---	PACE
QC-1	(d)	01/06/94	---	---	---	24000		3700	210	830	2000	4562	(c)(k)	---	---	PACE
RW-1		04/26/94	11.84	5.21	6.63	24000		3500	120	800	1700	8145	(c)(k)	---	6.4	PACE
QC-1	(d)	04/26/94	---	---	---	22000		3300	110	700	1700	6909	(c)(k)	---	---	PACE
RW-1		07/25/94	11.84	5.52	6.32	31000		4800	290	1100	1700	ND<5.0	(c)(k)	---	5.5	PACE
QC-1	(d)	07/25/94	---	---	---	28000		4400	240	960	1400	20608	(c)(k)	---	---	PACE
RW-1		10/13/94	11.84	6.05	5.79	20000		4200	46	990	440	---	(k)	---	6.8	PACE
RW-1		01/17/95	11.84	4.02	7.82	9600		1500	65	300	2700	---		---	7.7	ATI
RW-1		03/31/95	11.84	3.81	8.03	16000		1500	780	370	2000	---		---	7.8	ATI
RW-1		05/01/95	11.84	4.21	7.63	---		---	---	---	---	---		---	---	---
RW-1		07/12/95	11.84	4.93	6.91	22000		3700	150	950	2800	---		---	7.2	ATI
RW-1		10/12/95	11.84	5.46	6.38	30000		1600	1500	1700	8500	4300		---	7.0	ATI
RW-1		02/27/96	11.84	4.00	7.84	1800		30	24	41	440	52		194	7.7	SPL
QC-1	(d)	02/27/96	---	---	---	1600		30	23	38	420	50		---	---	SPL
RW-1		05/08/96	11.84	4.65	7.19	---		---	---	---	---	---		---	---	---
RW-1		05/09/96	11.84	---	---	3200		19	19	97	800	ND<50		---	7.1	SPL
QC-1	(d)	05/09/96	---	---	---	2900		15	15	78	700	ND<50		---	---	SPL
RW-1		08/09/96	11.84	4.96	6.88	---		---	---	---	---	---		---	---	---
RW-1		08/12/96	11.84	---	---	6900		210	270	390	1920	ND<100		---	7.9	SPL
QC-1	(d)	08/12/96	---	---	---	8200		270	330	450	2330	ND<100		---	---	SPL
RW-1		11/07/96	11.84	5.50	6.34	6100		320	45	ND<10	ND<10	430		---	6.9	SPL
QC-1	(d)	11/07/96	---	---	---	6800		360	45	ND<10	ND<10	500		---	---	SPL
RW-1		02/10/97	11.84	3.85	7.99	170000		ND<120	ND<250	ND<250	ND<250	150000		---	6.7	SPL
RW-1		08/04/97	11.84	4.72	7.12	ND<25000		580	450	630	3700	230000		---	6.9	SPL
RW-1		01/27/98	11.84	3.80	8.04	52000		380	330	490	2970	38000		---	6.1	SPL
QC-1	(d)	01/27/98	---	---	---	51000		380	300	480	2980	36000		---	---	SPL
RW-1		09/02/98	11.84	4.91	6.93	260000		2500	56	1400	3070	250000		---	6.6	SPL
QC-1	(d)	09/02/98	---	---	---	280000		2400	ND<50	1400	3170	270000		---	---	SPL
RW-1		02/24/99	11.84	4.16	7.68	120		ND<1.0	ND<1.0	1.5	13	130/140	(h)	---	---	SPL
RW-1		08/30/99	11.84	5.52	6.32	3100		320	ND<25	120	28	60000		---	---	SPL
RW-1		02/21/00	11.84	3.68	8.16	340	(i)	8.6	1.8	11	66	2500		---	---	PACE
RW-1		08/08/00	11.84	4.85	6.99	1600		3.2	ND<0.5	0.82	1.2	19000		---	---	PACE
RW-1		02/12/01	11.84	4.26	7.58	1500		1.33	ND<0.5	ND<0.5	5.69	2420		---	---	PACE
RW-1		08/13/01	11.84	5.34	6.50	290		ND<0.5	ND<0.5	ND<0.5	ND<1.5	314		---	---	PACE
RW-1		02/04/02	11.84	4.08	7.76	570		9.15	0.874	19.2	83.8	97.4		---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID		DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)		TDS (mg/L)	DO (ppm)	LAB
QC-2	(g)	07/09/93	—	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	(k)	—	—	PACE
QC-2	(g)	10/08/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(k)	---	---	PACE
QC-2	(g)	01/06/94	---	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	—	—	PACE
QC-2	(g)	04/26/94	—	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	---	PACE
QC-2	(g)	07/25/94	---	---	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	—	PACE
QC-2	(g)	10/13/94	---	—	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	(k)	—	—	PACE
QC-2	(g)	01/17/95	—	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---		---	---	ATI
QC-2	(g)	03/31/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		---	—	ATI
QC-2	(g)	07/12/95	---	---	—	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---		—	—	ATI
QC-2	(g)	10/12/95	—	—	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0		---	---	ATI
QC-2	(g)	02/27/96	—	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10		---	---	SPL
QC-2	(g)	05/09/96	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10		---	---	SPL

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
TDS	Total dissolved solids
DO	Dissolved oxygen
ug/L	Micrograms per liter
mg/L	Milligrams per liter
ppm	Parts per million
---	Not applicable/available/analyzed/measured
ND	Not detected above reported detection limit
PACE	Pace Analytical Services, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories

NOTES:

(a)

(b) Groundwater elevations in feet above mean sea level.

(c) A copy of the documentation for this data is included in Appendix C of Alisto report 10-155-07-001.

(d) Blind duplicate.

(e) Sample also analyzed for cadmium, nickel, chromium, lead, and zinc.
None were detected above the reported detection limit.

(f) Well inaccessible.

(g) Travel blank.

(h) MTBE by EPA Methods 8020/8260.

(i) Gasoline does not include MTBE.

(j) Unable to sample.

(k) A copy of the documentation for this data can be found in Baline Tech Services report 010813-N-2.

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)
A-1	05/01/95	11.56	5.80	0.60	6.21
A-1	05/08/96	11.56	5.49	0.28	6.28
A-1	08/23/96	11.56	6.43	0.22	5.30
A-1	02/10/97	11.56	4.45	0.17	7.24
A-1	08/05/97	11.56	5.96	0.10	5.68
A-1	02/04/98	11.56	3.20	0.04	8.39
A-1	02/24/99	11.56	4.41	0.60	7.60
A-1	08/30/99	11.56	6.04	—	5.52
A-1	02/21/00	11.56	4.23	0.08	7.39
A-1	08/08/00	11.56	5.53	0.13	6.13
A-1	02/12/01	11.56	4.71	---	6.85
A-1	08/13/01	11.56	5.89	0.03	5.69
A-1	02/04/02	11.56	4.79	---	6.77
B-1	02/15/95	12.12	5.37	---	6.75
B-1	05/01/95	12.12	5.12	---	7.00
B-1	05/08/96	12.12	4.80	—	7.32
B-1	08/23/96	12.12	5.54	—	6.58
B-1	02/10/97	12.12	4.59	---	7.53
B-1	08/05/97	12.12	6.44	---	5.68
B-1	02/04/98	12.12	3.01	---	9.11
B-1	02/24/99	12.12	4.29	---	7.83
B-1	08/30/99	12.12	6.21	---	5.91
B-1	02/21/00	12.12	4.59	---	7.53
B-1	08/08/00	12.12	5.9	---	6.22
B-1	02/12/01	12.12	5.41	—	6.71
B-1	08/13/01	12.12	6.35	---	5.77
B-1	02/04/02	12.12	5.20	---	6.92
B-5	02/15/95	10.18	4.15	---	6.03
B-5	05/01/95	10.18	4.43	---	5.75
B-5	05/08/96	10.18	4.40	—	5.78
B-5	08/23/96	10.18	4.99	---	5.19
B-5	02/10/97	10.18	3.63	---	6.55
B-5	08/05/97	10.18	4.89	---	5.29
B-5	02/04/98	10.18	2.53	---	7.65
B-5	02/24/99	10.18	3.39	---	6.79
B-5	08/30/99	10.18	5.16	---	5.02
B-5	02/21/00	10.18	3.51	---	6.67
B-5	08/08/00	10.18	4.63	—	5.55
B-5	02/12/01	10.18	4.05	---	6.13
B-5	08/13/01	10.18	5.04	---	5.14
B-5	02/04/02	10.18	4.15	---	6.03

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)
B-6	02/15/95	11.97	4.70	---	7.27
B-6	05/01/95	11.97	5.03	---	6.94
B-6	05/08/96	11.97	5.23	---	6.74
B-6	08/23/96	11.97	6.05	---	5.92
B-6	02/10/97	11.97	4.37	---	7.60
B-6	08/05/97	11.97	5.75	---	6.22
B-6	02/04/98	11.97	2.71	---	9.26
B-6	02/24/99	11.97	4.18	---	7.79
B-6	08/30/99	11.97	5.91	---	6.06
B-6	02/21/00	11.97	4.46	---	7.51
B-6	08/08/00	11.97	5.42	---	6.55
B-6	02/12/01	11.97	5.32	---	6.65
B-6	08/13/01	11.97	5.92	---	6.05
B-6	02/04/02	11.97	4.81	---	7.16
B-7	02/15/95	10.54	4.22	---	6.32
B-7	05/01/95	10.54	4.50	---	6.04
B-7	08/23/96	10.54	---	---	---
B-7	02/10/97	10.54	---	---	---
B-7	08/05/97	10.54	---	---	---
B-7	02/04/98	10.54	---	---	---
B-7	02/24/99	10.54	3.30	---	7.24
B-7	08/30/99	10.54	5.29	---	5.25
B-7	02/21/00	10.54	4.00	---	6.54
B-7	08/08/00	10.54	4.49	---	6.05
B-7	02/12/01	10.54	4.37	---	6.17
B-7	08/13/01	10.54	4.93	---	5.61
B-7	02/04/02	10.54	4.11	---	6.43
B-8	02/15/95	11.99	4.72	---	7.27
B-8	05/01/95	11.99	5.00	---	6.99
B-8	08/23/96	11.99	---	---	---
B-8	02/10/97	11.99	---	---	---
B-8	08/05/97	11.99	---	---	---
B-8	02/04/98	11.99	---	---	---
B-8	02/24/99	11.99	4.23	---	7.76
B-9	02/15/95	10.70	3.61	---	7.09
B-9	05/01/95	10.70	4.29	---	6.41
B-9	08/23/96	10.70	---	---	---
B-9	02/10/97	10.70	---	---	---
B-9	08/05/97	10.70	---	---	---
B-9	02/04/98	10.70	---	---	---
B-10	05/08/96	11.42	5.55	---	5.87
B-10	08/23/96	11.42	6.19	---	5.23
B-10	02/10/97	11.42	4.58	---	6.84
B-10	08/05/97	11.42	6.30	---	5.12
B-10	02/04/98	11.42	2.89	---	8.53
B-10	02/24/99	11.42	4.23	---	7.19
B-10	08/30/99	11.42	6.36	---	5.06
B-10	02/21/00	11.42	4.35	---	7.07
B-10	08/08/00	11.42	Dry	---	Dry
B-10	02/12/01	11.42	5.33	---	6.09
B-10	08/13/01	11.42	Dry	---	Dry
B-10	02/04/02	11.42	5.24	---	6.18

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)
B-11	05/08/96	11.98	5.00	---	6.98
B-11	08/23/96	11.98	5.61	---	6.37
B-11	02/10/97	11.98	4.07	---	7.91
B-11	08/05/97	11.98	5.60	---	6.38
B-11	02/04/98	11.98	2.59	---	9.39
B-11	02/24/99	11.98	4.19	---	7.79
B-11	08/30/99	11.98	5.80	---	6.18
B-11	02/21/00	11.98	4.21	---	7.77
B-11	08/08/00	11.98	5.19	---	6.79
B-11	02/12/01	11.98	4.74	---	7.24
B-11	08/13/01	11.98	5.65	---	6.33
B-11	02/04/02	11.98	4.73	---	7.25
B-12	05/08/96	11.16	5.08	---	6.08
B-12	08/23/96	11.16	5.65	---	5.51
B-12	02/10/97	11.16	4.11	---	7.05
B-12	08/05/97	11.16	5.61	---	5.55
B-12	02/04/98	11.16	2.63	---	8.53
B-12	02/24/99	11.16	4.00	---	7.16
B-12	08/30/99	11.16	5.84	---	5.32
B-12	02/21/00	11.16	4.31	---	6.85
B-12	08/08/00	11.16	5.15	---	6.01
B-12	02/12/01	11.16	4.89	---	6.27
B-12	08/13/01	11.16	5.64	---	5.52
B-12	02/04/02	11.16	4.71	---	6.45
B-13	05/08/96	11.17	4.97	---	6.20
B-13	08/23/96	11.17	5.63	---	5.54
B-13	02/10/97	11.17	4.12	---	7.05
B-13	08/05/97	11.17	5.65	---	5.52
B-13	02/04/98	11.17	2.69	---	8.48
B-13	02/24/99	11.17	4.03	---	7.14
B-13	08/30/99	11.17	5.74	---	5.43
B-13	02/21/00	11.17	4.24	---	6.93
B-13	08/08/00	11.17	4.99	---	6.18
B-13	02/12/01	11.17	4.76	---	6.41
B-13	08/13/01	11.17	5.55	---	5.62
B-13	02/04/02	11.17	4.55	---	6.62

NOTES:

(a) Top of casing elevations surveyed relative to 1929 NGVD.
Measured in feet above mean sea level.

(b) Groundwater elevations assuming a specific gravity of 0.75 for separate-phase product.

--- Not measured.

Analytical Appendix