Atlantic Richfield Company

Chuck Carmel

Environmental Business Manager

RECEIVED

PO Box 1257

San Ramon, CA 94583

Phone: (925) 275-3803 Fax: (925) 275-3815

E-Mail: charles.carmel@bp.com

8:55 am, Oct 06, 2010

Alameda County Environmental Health

October 5, 2010

Re: Third Quarter 2010 Semi-Annual Groundwater Monitoring Report

Atlantic Richfield Company Station #2107 3310 Park Boulevard, Oakland, California

ACEH Case #RO0002526

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by,

Chuck Carmel Environmental Business Manager

Attachment:



Third Quarter 2010 Semi-Annual Groundwater Monitoring Report

Atlantic Richfield Company Station #2107 3310 Park Boulevard, Oakland, California ACEH Case #RO0002526

Prepared for

Mr. Chuck Carmel
Environmental Business Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by



875 Cotting Lane, Suite G Vacaville, California 95688 (707) 455-7290 www.broadbentinc.com

October 5, 2010

Project No. 06-88-614



October 5, 2010

Project No. 06-88-614

Atlantic Richfield Company P.O. Box 1257 San Ramon, CA 94583 Submitted via ENFOS

Attn.: Mr. Chuck Carmel

Re:

Third Quarter 2010 Semi-Annual Groundwater Monitoring Report, Atlantic Richfield

Company Station #2107, 3310 Park Boulevard, Oakland, California;

ACEH Case #RO0002526

Dear Mr. Carmel:

Attached is the Third Quarter 2010 Semi-Annual Groundwater Monitoring Report for Atlantic Richfield Company (a BP affiliated company) Station #2107 located at, 3310 Park Boulevard, Oakland, Alameda County, California (Site). This report presents results of groundwater monitoring conducted at the Site during the Third Quarter of 2010.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact me at (707) 455-7290.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas Spanine Thomas A. Sparrowe, P.G.

Senior Geologist

Enclosures

cc:

Mr. Paresh Khatri, Alameda County Environmental Health (Submitted via ACEH ftp site)

Electronic copy uploaded to GeoTracker

CALIFORNIA

ARIZONA

NEVADA

TEXAS

STATION # 2107 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Facility: #2107 Address: 3310 Park Boulevard, Oakland, California

Environmental Business Manager: Mr. Chuck Carmel

Consulting Co./Contact Person: Broadbent & Associates, Inc.(BAI)/Mr. Tom Sparrowe, PG

(707) 455-7290

Consultant Project No.: 06-88-614

Primary Agency/Regulatory ID No.: Alameda County Environmental Health (ACEH)

ACEH Case # RO0002526

Facility Permits/Permitting Agency: NA

WORK PERFORMED THIS QUARTER (Third Quarter 2010):

1. Prepared and submitted Second Quarter 2010 Status Report (BAI, 7/19/2010).

2. Conducted groundwater monitoring/sampling for Third Quarter 2010. Work performed on July 23, 2010 by BAI.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2010):

1. Prepared and submitted this *Third Quarter 2010 Semi-Annual Groundwater Monitoring Report* (contained herein).

2. No sampling or environmental activities are scheduled at the Site during Fourth Quarter 2010.

RESULTS SUMMARY:

Current phase of project: **Groundwater Monitoring/Sampling** Frequency of Groundwater Semi-Annually (1Q &3Q): MW-11A, MW-11B, MW-12A, monitoring:* MW-12B, MW-13A, MW-13B Frequency of Groundwater Semi-Annually (1Q &3Q): MW-11A, MW-11B, MW-12A, sampling:* MW-12B, MW-13A, MW-13B Is free product (FP) present on-site: No FP recovered this quarter: None Current remediation techniques: NA Depth to ground water (below TOC): 2.74 ft (MW-13B) to 10.75 ft (MW-12B) General Groundwater flow direction: North ('B' wells) 0.05 ft/ft ('B' wells) Approximate hydraulic gradient:

DISCUSSION:

Third quarter 2010 groundwater monitoring and sampling was conducted at Station #2107 on July 23, 2010 by BAI personnel. Water levels were gauged in the six wells associated with the Site. No irregularities were noted during water level gauging. Depth to water measurements ranged from 2.74 feet (ft) at MW-13B to 10.75 ft at MW-12B. Resulting groundwater surface elevations ranged from 113.89 ft above datum (NAVD88) in well MW-11B to 110.09 ft at well MW-12B. Water level elevations are summarized in Table 1. A review of the Third Quarter 2010 groundwater level elevations shows an upward vertical hydraulic gradient between paired wells MW-11A and MW-11B and paired wells MW-13A and MW-13B, but a downward vertical hydraulic gradient between paired wells MW-12A and MW-12B. These vertical gradients are similar to those documented since the First Quarter 2010. Water level elevations in the three 'B' wells yielded a potentiometric groundwater flow direction and gradient to

^{*} Revised schedule beginning Third Quarter 2010. Schedule modifications discussed below.

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the north at approximately 0.05 ft/ft, generally consistent with previous monitoring events (see Table 3). Groundwater monitoring field data sheets are provided within Appendix A. Measured depths to groundwater and respective groundwater elevations are summarized in Table 1. A Site Location Map is provided as Drawing 1. Potentiometric groundwater elevation contours are presented in Drawing 2.

Groundwater samples were collected from each well associated with the Site this quarter. No irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to Calscience Environmental Laboratories, Inc. (Garden Grove, California), for analysis of Gasoline Range Organics (GRO, C6-12) by EPA Method 8015B; for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and Methyl Tert-Butyl Ether (MTBE), Ethyl Tert-Butyl Ether (ETBE), Tert-Amyl Methyl Ether (TAME), Di-Isopropyl Ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dicholorethane (1,2-DCA), Tert-Butyl Alcohol (TBA) and Ethanol by EPA Method 8260B. No significant irregularities were encountered during laboratory analysis of the samples. Groundwater sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

Concentrations of GRO were detected above the laboratory reporting limit in two of the six wells sampled at concentrations up to 1,300 micrograms per liter (μ g/L) in well MW-11A. MTBE was detected above the laboratory reporting limit in each of the six wells sampled at concentrations up to 510 μ g/L in well MW-12B. Benzene, Toluene, and Ethylbenzene were detected in well MW-11A at concentrations of 20 μ g/L, 22 μ g/L, and 23 μ g/L, respectively. TAME was detected above the laboratory reporting limit only in well MW-11A a concentration of 6.5 μ g/L. The remaining fuel constituents were not detected above their laboratory reporting limits in the five wells sampled this quarter.

Laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 2. Groundwater monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation receipts are provided in Appendix B.

CONCLUSIONS AND RECOMMENDATIONS:

Preliminary review of the vertical gradients documented between co-located well pairs after six rounds of monitoring appears to show an upward vertical gradient at MW-11A/MW-11B and MW-13A/MW-13B, and downward vertical gradient at MW-12A/MW-12B. As was mentioned in the *Groundwater Investigation and Third Quarter 2009 Groundwater Monitoring Report* (BAI, 4/30/2009), over-drilling of well MW-13A to 24 ft bgs, then partially backfilling with bentonite to 19 ft bgs, and constructing the well screen from 11.5-16.5 ft bgs was a variance from the planned scope of work. The validity of data distinguishing Groundwater conditions between wells MW-13A and MW-13B is therefore suspect.

The next scheduled groundwater monitoring and sampling event will occur during the First Quarter 2011.

CLOSURE:

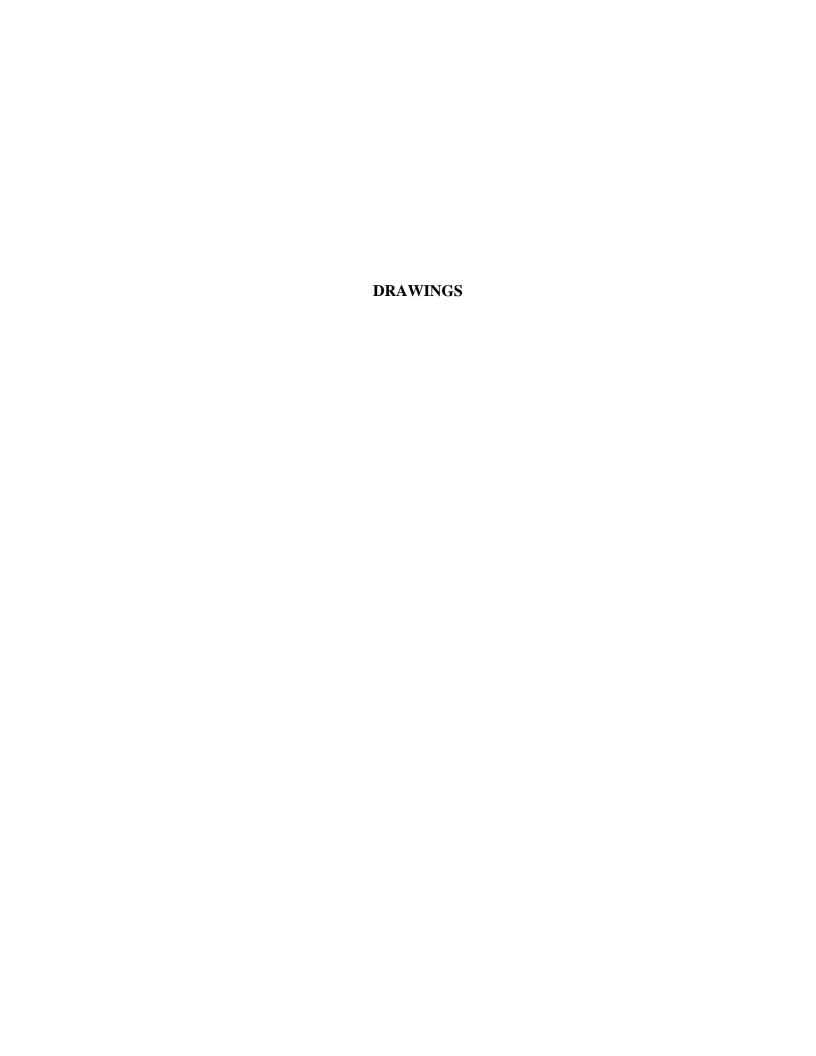
The findings presented in this report are based upon: observations of Broadbent & Associates, Inc. and/or their subcontractors' personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Calscience Environmental Laboratories, Inc. (Garden Grove, California). Our services were performed in accordance with the generally accepted standard of practice at the time

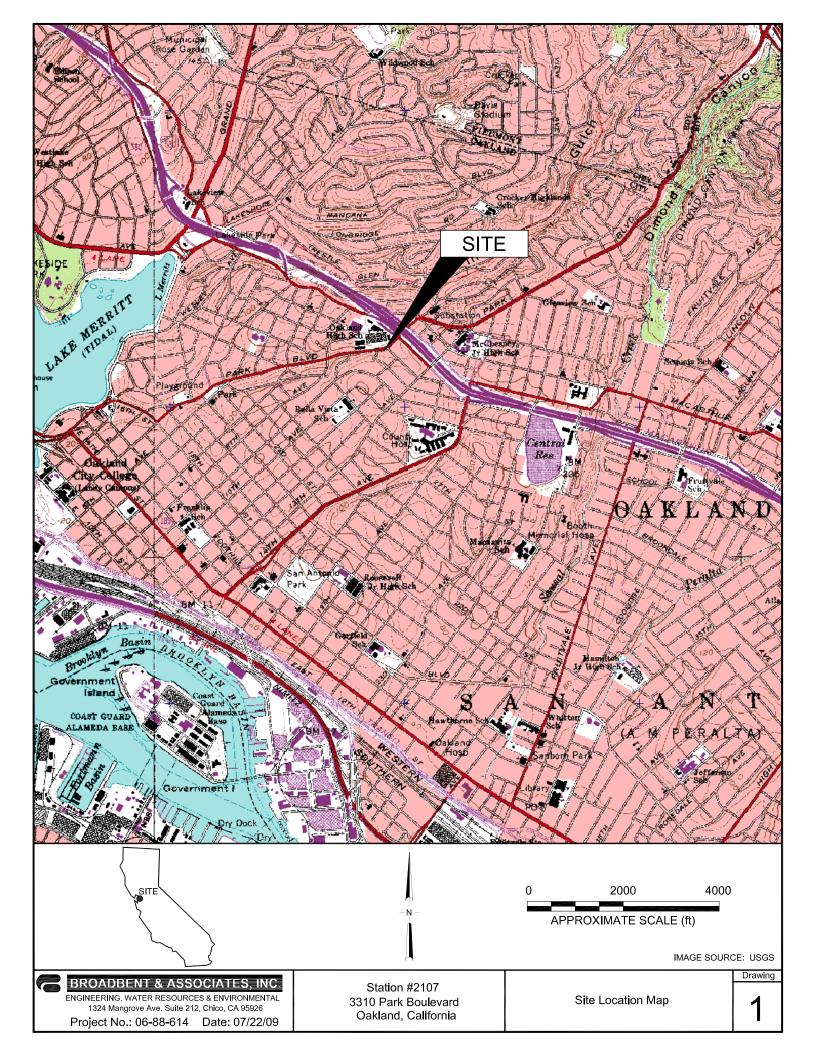
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this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or Groundwater conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

ATTACHMENTS:

- Drawing 1. Site Location Map, Station #2107, 3310 Park Boulevard, Oakland, California
- Drawing 2. Groundwater Elevation Contour and Analytical Summary Map, July 23, 2010, Station #2107, 3310 Park Boulevard, Oakland, California
- Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #2107, 3310 Park Boulevard, Oakland, California
- Table 2. Summary of Fuel Additives Analytical Data, Station #2107, 3310 Park Boulevard, Oakland, California
- Table 3. Historical Groundwater Flow Direction and Gradient Data, Station #2107, 3310 Park Boulevard, Oakland, California
- Appendix A. BAI Groundwater Sampling Data Package (Includes Field Data Sheets, Non-Hazardous Waste Data Form, Laboratory Analytical Report with Chain-of-Custody Documentation, and Field Procedures).
- Appendix B. GeoTracker Upload Confirmation Receipts





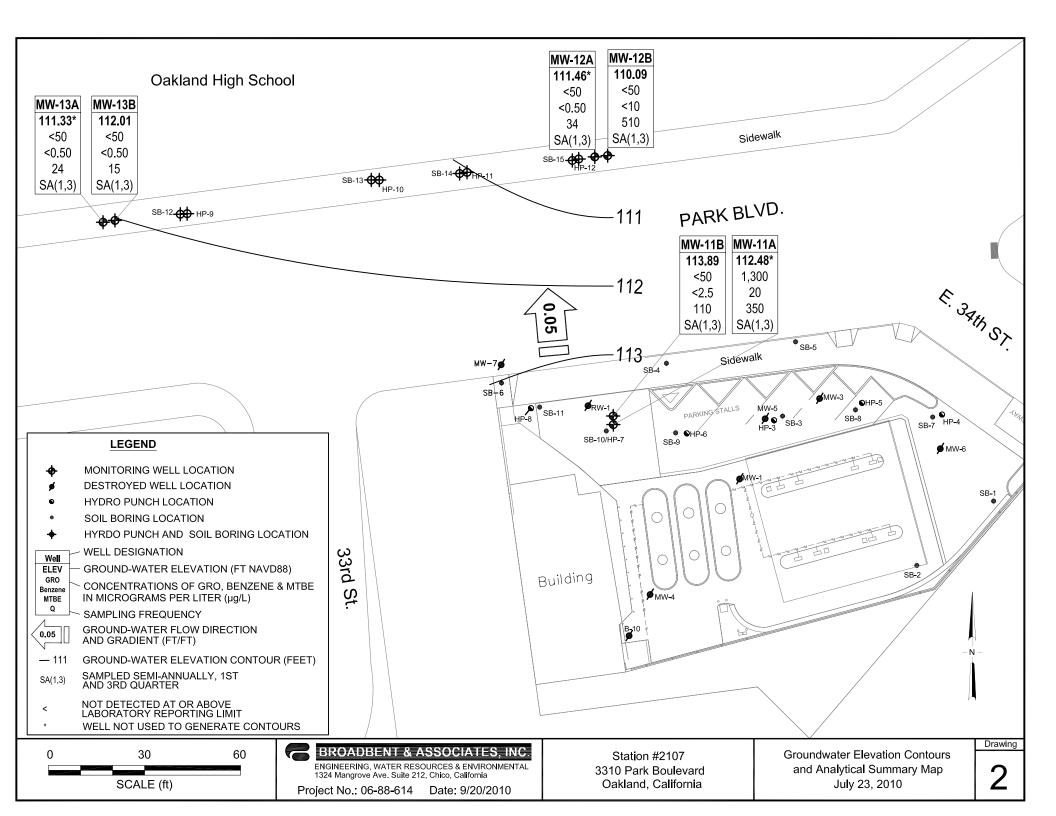




Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
ARCO Service Station #2107, 3310 Park Boulevard, Oakland, CA

				Top of	Bottom of		Water Level	Concentrations in (µg/L)							
Well and			TOC	Screen	Screen	DTW	Elevation	GRO/			Ethyl-	Total		DO	
Sample Date	P/NP	Comments	(feet)	(ft bgs)	(ft bgs)	(feet)	(feet)	TPHg	Benzene	Toluene	Benzene	Xylenes	MTBE	(mg/L)	pН
MW-11A															
3/9/2009	P		120.85	16	20	12.41	108.44	1,000	1.5	<1.0	13	4.8	60	9.20	12.74
6/18/2009	P	a	120.85	16	20	14.58	106.27	260	11	< 5.0	6.8	< 5.0	280		9.83
9/1/2009	P		120.85	16	20	8.75	112.10	1,400	28	20	61	6.7	340	1.40	7.84
11/11/2009			120.85	16	20	10.40	110.45							1.55	12.5
2/19/2010	P		120.85	16	20	8.90	111.95	1,300	20	17	25	< 5.0	340	2.01	12.13
7/23/2010	P		120.85	16	20	8.37	112.48	1,300	20	22	23	<5.0	350	1.11	12.0
MW-11B															
3/9/2009	P		121.31	26	30	7.33	113.98	280	1.3	1.3	7.6	< 0.50	240	9.56	7.14
6/18/2009	P	a	121.31	26	30	7.38	113.93	130	<5.0	< 5.0	< 5.0	< 5.0	200		6.96
9/1/2009	P		121.31	26	30	7.66	113.65	69	<5.0	< 5.0	< 5.0	<5.0	210	1.01	7.01
11/11/2009	P		121.31	26	30	7.70	113.61	55	< 5.0	< 5.0	< 5.0	<5.0	200	0.38	6.7
2/19/2010	P		121.31	26	30	7.59	113.72	68	<2.5	<2.5	<2.5	<2.5	180	2.38	7.44
7/23/2010	P		121.31	26	30	7.42	113.89	<50	<2.5	<2.5	<2.5	<2.5	110	1.57	7.02
MW-12A															
3/9/2009	P		120.64	13	18	8.70	111.94	<50	< 0.50	< 0.50	< 0.50	< 0.50	41	4.62	6.76
6/18/2009	P	a	120.64	13	18	8.58	112.06	< 50	<1.0	<1.0	<1.0	<1.0	40		7.92
9/1/2009	P		120.64	13	18	9.21	111.43	< 50	< 0.50	< 0.50	< 0.50	< 0.50	39	1.06	6.97
11/11/2009	P		120.64	13	18	9.15	111.49	< 50	<1.0	<1.0	<1.0	<1.0	41	0.51	6.2
2/19/2010	P		120.64	13	18	9.13	111.51	< 50	< 0.50	< 0.50	< 0.50	< 0.50	32	0.38	6.58
7/23/2010	P		120.64	13	18	9.18	111.46	<50	< 0.50	< 0.50	<0.50	<0.50	34	0.68	7.6
MW-12B															
3/9/2009	P		120.84	27	30	14.89	105.95	<50	< 0.50	0.55	< 0.50	< 0.50	150	5.87	7.74
6/18/2009	P	a	120.84	27	30	13.51	107.33	140	<2.5	<2.5	<2.5	<2.5	380		8.60
9/1/2009	P		120.84	27	30	9.54	111.30	89	<10	<10	<10	<10	460	0.99	6.88
11/11/2009	P		120.84	27	30	11.53	109.31	< 50	< 5.0	< 5.0	< 5.0	< 5.0	600	1.00	6.46
2/19/2010	P		120.84	27	30	11.07	109.77	52	<5.0	< 5.0	< 5.0	<5.0	620	3.32	6.89
7/23/2010	P		120.84	27	30	10.75	110.09	<50	<10	<10	<10	<10	510	1.70	7.54

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #2107, 3310 Park Boulevard, Oakland, CA

				Top of	Bottom of		Water Level	Concentrations in (µg/L)							
Well and Sample Date	P/NP	Comments	TOC (feet)	Screen (ft bgs)	Screen (ft bgs)	DTW (feet)	Elevation (feet)	GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	МТВЕ	DO (mg/L)	pН
MW-13A															
3/9/2009	P		114.55	11.5	16.5	9.53	105.02	<50	< 0.50	< 0.50	< 0.50	< 0.50	13	9.39	7.64
6/18/2009	P	a	114.55	11.5	16.5	2.88	111.67	< 50	< 0.50	< 0.50	< 0.50	< 0.50	23		7.21
9/1/2009	P		114.55	11.5	16.5	3.31	111.24	<50	< 0.50	< 0.50	< 0.50	< 0.50	34	0.96	6.90
11/11/2009	P		114.55	11.5	16.5	3.66	110.89	< 50	< 0.50	< 0.50	< 0.50	< 0.50	21	1.79	6.5
2/19/2010	P		114.55	11.5	16.5	3.43	111.12	<50	< 0.50	< 0.50	< 0.50	< 0.50	15	0.92	6.69
7/23/2010	P		114.55	11.5	16.5	3.22	111.33	<50	<0.50	< 0.50	<0.50	<0.50	24	1.4	7.0
MW-13B															
3/9/2009	P		114.75	18.5	22.5	2.96	111.79	< 50	< 0.50	< 0.50	< 0.50	< 0.50	13	8.44	6.99
6/18/2009	P	a	114.75	18.5	22.5	2.85	111.90	< 50	< 0.50	< 0.50	< 0.50	< 0.50	12		6.92
9/1/2009	P		114.75	18.5	22.5	3.36	111.39	<50	< 0.50	< 0.50	< 0.50	< 0.50	17	0.96	7.29
11/11/2009	P		114.75	18.5	22.5	3.49	111.26	<50	< 0.50	< 0.50	< 0.50	< 0.50	21	2.45	6.39
2/19/2010	P		114.75	18.5	22.5	3.10	111.65	<50	< 0.50	< 0.50	< 0.50	< 0.50	19	1.46	6.50
7/23/2010	P		114.75	18.5	22.5	2.74	112.01	<50	< 0.50	< 0.50	<0.50	< 0.50	15	1.16	7.19

ABBREVIATIONS AND SYMBOLS:

--/--- Not measured/applicable/analyzed/sampled

 $\mu g/L = Micrograms per liter$

DO = Dissolved oxygen

DTW = Depth to water in ft below TOC

GRO = Gasoline range organics mg/L = Milligrams per liter

MTBE = Methyl tert butyl ether

< = Not detected at or above specified laboratory reporting limit

NP = Well not purged prior to sampling

P = Well purged prior to sampling

TOC = Top of casing in ft above NAVD88 datum

FOOTNOTES:

NOTES:

a = DO meter not working.

Values for DO and pH were obtained through field measurements.

Table 2. Summary of Fuel Additives Analytical Data ARCO Service Station #2107, 3310 Park Boulevard, Oakland, CA

Well and				Concentrati	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-11A									
3/9/2009		<20	60	<1.0	<1.0	<1.0			
6/18/2009	<3,000	<100	280	<5.0	<5.0	<5.0	<5.0	<5.0	
9/1/2009	<3,000	<100	340	<5.0	<5.0	5.3	<5.0	<5.0	
2/19/2010	<3,000	<100	340	<5.0	<5.0	6.1	<5.0	<5.0	
7/23/2010	<3,000	<100	350	<5.0	<5.0	6.5	<5.0	<5.0	
MW-11B									
3/9/2009		<10	240	< 0.50	< 0.50	3.1			
6/18/2009	<3,000	<100	200	<5.0	<5.0	<5.0	<5.0	<5.0	
9/1/2009	<3,000	<100	210	<5.0	<5.0	<5.0	<5.0	<5.0	
11/11/2009	<3,000	<100	200	<5.0	<5.0	<5.0	<5.0	<5.0	
2/19/2010	<1,500	<50	180	<2.5	<2.5	<2.5	<2.5	<2.5	
7/23/2010	<1,500	<50	110	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-12A									
3/9/2009		<10	41	< 0.50	< 0.50	< 0.50			
6/18/2009	<600	<20	40	<1.0	<1.0	<1.0	<1.0	<1.0	
9/1/2009	<300	<10	39	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/11/2009	<600	<20	41	<1.0	<1.0	<1.0	<1.0	<1.0	
2/19/2010	<300	<10	32	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
7/23/2010	<300	<10	34	<0.50	<0.50	<0.50	<0.50	< 0.50	
MW-12B									
3/9/2009		<10	150	< 0.50	< 0.50	< 0.50			
6/18/2009	<1,500	<50	380	<2.5	<2.5	<2.5	<2.5	<2.5	
9/1/2009	<6,000	<200	460	<10	<10	<10	<10	<10	
11/11/2009	<3,000	<100	600	< 5.0	<5.0	<5.0	<5.0	< 5.0	
2/19/2010	<3,000	<100	620	<5.0	<5.0	5.1	<5.0	< 5.0	
7/23/2010	<6,000	<200	510	<10	<10	<10	<10	<10	
MW-13A									
3/9/2009		<10	13	< 0.50	< 0.50	< 0.50			
6/18/2009	<300	<10	23	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	

Table 2. Summary of Fuel Additives Analytical Data ARCO Service Station #2107, 3310 Park Boulevard, Oakland, CA

Well and				Concentration	ons in (µg/L)				
Sample Date	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	Comments
MW-13A Cont.									
9/1/2009	<300	<10	34	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/11/2009	<300	<10	21	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2/19/2010	<300	<10	15	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
7/23/2010	<300	<10	24	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-13B									
3/9/2009		<10	13	< 0.50	< 0.50	< 0.50			
6/18/2009	<300	<10	12	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
9/1/2009	<300	<10	17	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
11/11/2009	<300	<10	21	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
2/19/2010	<300	<10	19	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
7/23/2010	<300	<10	15	<0.50	<0.50	<0.50	< 0.50	< 0.50	

ABBREVIATIONS AND SYMBOLS:

-- = Not analyzed/applicable/measurable

< = Not detected above reported detection limit

1,2-DCA = 1,2-Dichloroethane

 μ g/L = Micrograms per Liter DIPE = Di-isopropyl ether EDB = 1, 2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether
TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

FOOTNOTES:

NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

Table 3. Historical Ground-Water Flow Direction and Gradient ARCO Service Station #2107, 3310 Park Boulevard, Oakland, CA

Date Sampled	Approximate Flow Direction	Approximate Hydraulic Gradient
3/9/2009	Northeast	0.06
6/18/2009	Northeast	0.06
9/1/2009	North-Northwest	0.03
11/11/2009	North	0.05
2/19/2010	North	0.03
7/23/2010	North	0.05

APPENDIX A

BAI GROUNDWATER SAMPLING DATA PACKAGE (Includes Field Data Sheets, Non-Hazardous Waste Data Form, Laboratory Analytical Report with Chain-Of-Custody Documentation, and Field Procedures) DATE: 7/23/10 PROJECT NO .: BP2107 PERSONNEL: EFS 13 COMMENTS: Equip: Geosquirt Tubing DO wli Ballers Ec/pH WEATHER: PRODUCT THICKNESS Temp. (C/F) WELL HEAD CONDITION: Redox Iron Alk. MEASURING Cond. pН DO (mg/l) DTW (FT) Well ID Time VAULT, BOLTS, CAP, LOCK, ETC (X100) (mV) (mg/l) POINT (mg/l) 8,37 Mr-11A 1047 旗旗 1046 mm-137 m. 12B 10,75 mw-13/ mv-13B



Well I.D.:			ML	N-111	4						
Project Na	ame/Loc	ation:		2101			Project	#: 06.88.614			
Sampler's			EF	5B			Date:	7/23/10			
Purging E	quipmer	nt:	Bui	10							
Sampling	Equipm	ent:	Bn.	LV							
Casing Ty	pe: PVC	•	\ <u>-</u>	_							
Casing Di	ameter:			0) inch		*UNI	CASING VOLUMES			
Total Well	Depth:			9	g.co _{feet}		2'' = 0.16 gal/lin ft.				
Depth to	Water:			- K.	うつ feet			= 0.37 gal/lin ft.			
Water Col	umn Thi	ickness:		= 11,	63 feet			= 0.65 gal/lin ft.			
Unit Casir	ıg Volum	1e*:			IG gallon / fo	oot	6"	= 1.47 gal/lin ft.			
Casing Wa	ater Volu	ıme:		=	86 gallons						
Casing Vo	lume:			x	3 each						
Estimated	Purge \	/olume:		= 5.5	gallons						
Free product measurement (if present):											
Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	рН	Observations			
0	1 052	1,11	- 135		9080	67.8	11.8				
2,0	1058	Х	Х	х	8047	72.4	12.0				
		×	х	Х							
		х	х	х							
		х	х	x		- "					
		x	x	x							
		х	Х	×							
		X	х	×							
Total Wate	er Volum	ie Purge	ed:	_	7	gallons					
Depth to V	Vater at	Sample	Collect	ion:		feet		_			
Sample C	ollectio	n Time	:	-	lice		Purg	ged Dry? (Y)/N)			
Comments	: Dry	R.	28	/							
		_	U								
					•						



Well I.D.:			mu	V-11/2				
Project N		ation:	BP	210		<u> </u>	Project :	#: 06.88.614
Sampler's	•		- CF	25B		·	Date:	7123/10
Purging E		nt:	Bu	w		****		710-710
Sampling				120				
Casing Ty					18112			
Casing Di	ameter:			\mathcal{L}	inch		*UNI7	CASING VOLUMES
Total Wel	l Depth:			30			2"	= 0.16 gal/lin ft.
Depth to	Water:			- 7ı	いる _{feet}		3"	= 0.37 gal/lin ft.
Water Co	lumn Th	ickness:		= 39'	Feet		4"	= 0.65 gal/lin ft.
Unit Casir	ng Volun	ne*:		х_ <i>О</i> .	ይ gallon / f	oot	6"	= 1.47 gal/lin ft.
Casing W	ater Volu	ume:		= <u>-3,6</u>	gallons			
Casing Vo	lume:				3each			
Estimated	l Purge \	/olume:		= 10	.64 gallons			
Free prod	uct mea	sureme	nt (if pr	esent):				
Purged	Time	DO	ORP	Fe	Conductance	Temperature	pН	Observations
(gallons)	(24:00)	117	(mV)		(μS)	(Fahrenheit)	0.4	
0	1052	1.5 /	1/2		7.37,0	70,2	6.88	
J.S 3.5	105	х	Х	Х	774.0	-67,4	6.93	
3.5	1057	х	×	×	749.7	£7,6	7.02	
	į	Х	х	х				
		х	х	х				
		х	х	х				
		х	х	х		·		
		х	х	Х				
Total Wate	er Volum	ne Purge	ed:		3.5	gallons		····
Depth to \	Nater at	Sample	Collect	ion:	8.01	feet		
Sample C	ollectio	n Time	:	_	1105		Purg	ged Dry? (Y/Ŵ)
		٠			•			<i>y</i>
Comment	5:							



Well I.D.:			Mn	1-12+	†				
Project Na	ame/Loc	ation:	BP	2107				Project	#: 06.88.614
Sampler's			EP.	513				Date:	7/23/10
Purging E			Bui	lv					
Sampling	Equipm	ent:	Bc.	Le					
Casing Ty	pe: PVC					•			
Casing Dia	ameter:			Q	し	inch		*UNI	CASING VOLUMES
Total Well	Depth:		,	18.	CO	- feet		2"	= 0.16 gal/lin ft.
Depth to \	Nater:			- 9.1		- feet			= 0.37 gal/lin ft.
Water Col	umn Th	ickness:		= 88	7ス	feet			= 0.65 gal/lin ft.
Unit Casin	g Volun	ne*:		x 01	C	- _gallon / f	oot		= 1.47 gal/lin ft.
Casing Wa	ter Vol	ıme:		= 1.4	1	galions			
Casing Vo	iume:			x	3	each	•		•
Estimated	Purge \	/olume:		= 4.	23	gallons			
Free produ	uct mea	sureme	nt (if pr	esent):					
Purged	Time	DO	ORP	Fe	Con	ductance	Temperature	pН	Observations
(gallons)	(24:00)	en	(mV)		7717	(μS)	(Fahrenheit)	27	
<u>ට</u>	[133	0.69	-92		79.). I 	70.6	8.7	
Z	1129	х	X	х	73	18.3	70.0	7.9	
3	1130	х	Х	х	フ	13,4	69.9	7.6	
		Х	X	Х					
		х	Х	Х					
		х	Х	х					
		х	Х	х					
		х	х	х					
Total Wate	r Volum	ne Purge	ed:			3	gallons		
Depth to V	Vater at	Sample	Collect	tion:	9.	97 77	feet		
Sample C	ollectio	n Time	:			35		Purg	ged Dry? (Y/NO)
Commonto				•	•				
Comments									



Well I.D.:			Mh	1-12 Y	3			
Project Na	ame/Loc	ation:	BP	207			Project :	#: O6.88614
Sampler's	Name:		Ge:	5 <i>B</i>			Date:	7/23/10
Purging E	quipmeı	nt:	But	r				
Sampling	Equipm	ent:	Bnit	~			-	
Casing Ty	pe: PVC	•						
Casing Dia	meter:			. <u>'</u>	\inch		*UNIT	CASING VOLUMES
Total Well	Depth:			3 <u>o</u> .	co feet		2"	= 0.16 gal/lin ft.
Depth to	Water:			- 10:			3"	= 0.37 gal/lin ft.
Water Col	umn Th	ickness) 	= 19.	∑_feet		4"	= 0.65 gal/lin ft.
Unit Casin	ıg Volun	ne*:		x 0.1	gallon /	foot	6"	= 1.47 gal/lin ft.
Casing Wa	ater Vol	ıme:		= 2-5	gallons			
Casing Vo	lume:				3 each			
Estimated	Purge \	/olume:		=	(6 gallons			
Free prod	uct mea	sureme	nt (if pr	esent):				
Purged	Time	DO	ORP	Fe	Conductance	Temperature	pН	Observations
(galions)	(24:00)	10-	(mV)		(μ5)	(Fahrenheit)		
U	1132	1.70	-168		1198	1111	9.41	
3 .5	1125	Х	Х	Х	1192	62.2	7.83	
3,5	1197	х	х	х	[179]	69.3	7,54	
****		х	х	х				
		х	х	х				
		х	х	х	,			
		х	х	X				
		х	х	х		,		
Total Wate	r Volum	ne Purge	ed:		3.5	gallons	_	
Depth to V	Vater at	Sample	: Collect	ion:	11.07	feet		
Sample C	ollectio	n Time	ı	•	1130		Purg	ged Dry? (Y/N)
					• • • • • • • • • • • • • • • • • • • •			
Comments	i :							
				•				
								



Well I.D.:			MW	-13/	+			
Project Na	ame/Loc	ation:		210/			Project -	#: 06.88.614
Sampler's				SB				7123110
Purging E		nt:		iw				1102710
Sampling	Equipm	ent:		ile				-
Casing Ty	pe: PVC	,		-				
Casing Dia	ameter:			9) inch		*UNI	CASING VOLUMES
Total Well				16	SO feet			= 0.16 gal/lin ft.
Depth to	Water:			- 3.	Theet			= 0.37 gal/lin ft.
Water Col	umn Thi	ickness		= 13.	⊋ g feet			= 0.65 gal/lin ft.
Unit Casin	ıg Volun	าe*:		× 0.	6 gallon / fe	oot		= 1.47 gal/lin ft.
Casing Wa	ater Volu	ıme:		= <u>Ĵ</u> ,	12 gallons			- '
Casing Vo	lume:			x	3 each			
Estimated	Purge \	/olume:		= C	37 gallons			
Free prod	uct mea	sureme	nt (if pr	esent):				
Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pН	Observations
0	1154	1.4	-18		998.9	75.2	7.4	
Q	USE	Х	Х	X	99 <i>5.0</i>	73.4	7.3	
3	1157	Х	Х	X	1016	72.3	7.0	
		Х	Х	х				
:		Х	Х	х				
		Х	×	х				
		Х	х	х				
		Х	x	х				
Total Wate	er Volum	ne Purge	ed:		3	gallons		
Depth to V	Vater at	Sample	e Collect	ion:	3.48	feet		
Sample C	ollectio	n Time):		1200	•	Purg	ged Dry? (Y/N))
Comments								
COMMICHE	· · · · · · · · · · · · · · · · · · ·							



ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Well I.D.:			MW	<u>~1315</u>							
Project Na	ame/Loc	ation:	BP-	2107			Project	#:06.88.614			
Sampler's	Name:		<u>Ct</u>	5B_			Date:	7/23/10			
Purging E	quipmer	nt:	Bail	v							
Sampling	Equipm	ent:	Bail				-				
Casing Ty	pe: PVC			_				-			
Casing Di	ameter:				<u> </u>		*UNIT	CASING VOLUMES			
Total Well	Depth:			<u> </u>	.50 feet		2"	= 0.16 gal/lin ft.			
Depth to	Water:			<u>- 2.</u>	<u> 7</u> feet	•	3"	= 0.37 gal/lin ft.			
Water Col	umn Th	ickness		= [9,	フ <u>に</u> feet		4"	= 0.65 gal/lin ft.			
Unit Casir	ig Volun	ne*:		x_0,	$\frac{1}{\zeta}$ gallon / foot $6'' = 1.47$ gal/lin ft.						
Casing Wa	ater Volu	ıme:		= 3.1	(gallons						
Casing Vo	lume:			×							
Estimated	Purge \	/olume:		= 9.6	gallons						
Free prod	uct mea	sureme	nt (if pr	esent):	·						
Purged	Time	DO	ORP	Fe	Conductance	Temperature	pН	Observations			
(gallons)	(24:00)	417	(mV)		(μS)	(Fahrenheit)					
0	lls7	7.16	- 66		107	76.0	7.80				
3	1157	Х	х	Х	1078	70.8	7.20				
5	1159	Х	Х	Х	1030	70.9	7.19				
		Х	х	х							
		х	х	X							
- 12-111		х	х	x							
		х	×	х							
		х	х	х							
Total Wate	er Volum	ne Purge	ed:	_	5	gallons		· · · · · · · · · · · · · · · · · · ·			
Depth to V	Vater at	Sample	e Collect	ion:	2.90	feet					
Sample C	ollectio	n Time	:	_	1205		Purg	ged Dry? (Y (N)			
Comments	: :										
								,			

NON-HAZARDOUS WASTE DATA FORM

				1. BES	I #					
	2. Generator's Name and Mailing Address BP WEST COAST PRODUCTS, LLC P.O. BOX 80249 RANCHO SANTA MARGARITA, CA 92688	.27	Generator's Site Ad 3310 Owk 10	Porh	blui A	A	E- /Q/	01 600 27	TOP.	
	Generator's Phone: (949) 460-5200 3. Transporter 1 Company Name		24-1100	JEN ELEVELE	Pho	ON PHON	E. Lan	0) 000-01	OU	
	Broadbent & Associates, Inc. 4. Transporter 2 Company Name					530) 566- one #	1400			
	Gomes Excavating				1	707) 374-	2881			
	5. Designated Facility Name and Site Address INTRAT, INC. 1105 AIRPORT RD #C RIO VISTA, CA 94571	te.			Pho	one # 530) 753-		70		
	the state of the s				1					
H	6. Waste Shipping Name and Description	v. III		7. Conta	ainers Type	8. Total Quantity	9. Unit Wt/Vol	10. Prof	ile No.	
GENERATOR	NON-HAZARDOUS WATER			1	TT	20	G			
GENE	В.									
	C.									
	D.			¥7						
	11. Special Handling Instructions and Additional Information WEAR ALL APPROPRIATE PROTECTIVE CL WELL PURGING / DECON WATER	OTHING		•		a				
	12. GENERATOR'S CERTIFICATION: I certify the materials described above on	this data form are no	n-hazardous.							
	Generator's/Offeror's Printed/Typed Name	Signature	2-2	-				Month	Day	Year
E	13. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name	Signature					,	Month	Day	Year
F	Eric Full		ne		The state of the s			8	3	10
ISPO	Transporter 2 Printed/Typed Name	Signature	30 / DO. 100-101 FE 10-1	70) N 3 18				Month	Day	Year
TRANSPORTER										
F	14. Designated Facility Owner or Operator: Certification of receipt of materials of Printed/Typed Name	covered by this data t Signature	orm.					Month	Day	Year
FACILITY	, mod god mano									





August 09, 2010

Tom Sparrowe Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642

Subject: Calscience Work Order No.: 10-07-1937

Client Reference: BP 2107

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/27/2010 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

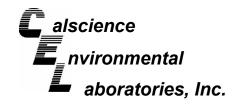
Sincerely,

Calscience Environmental Laboratories, Inc.

Richard Villafania

Richard Veller

Project Manager





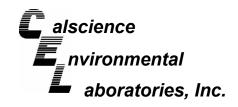
Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642

Date Received: Work Order No: Preparation: Method:

07/27/10 10-07-1937 EPA 5030B EPA 8015B (M)

Project: BP 2107							Pa	ge 1 of 2
Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11A		10-07-1937-1-E	07/23/10 11:00	Aqueous	GC 11	07/30/10	07/31/10 02:38	100730B01
Comment(s): -The sample chroma hydrocarbons are als		n for TPH matches th	ne chromatogr	aphic patterr	of the specif	fied standard	but heavier	
Parameter	Result	RL	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	1300	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		Qual				
1,4-Bromofluorobenzene	114	38-134						
MW-11B		10-07-1937-2-D	07/23/10 11:05	Aqueous	GC 4	08/02/10	08/03/10 11:41	100802B01
Parameter_	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	73	38-134						
MW-12A		10-07-1937-3-E	07/23/10 11:35	Aqueous	GC 11	07/30/10	07/31/10 04:19	100730B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	94	38-134						
MW-12B		10-07-1937-4-E	07/23/10 11:30	Aqueous	GC 11	07/30/10	07/31/10 04:53	100730B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	94	38-134						

DF - Dilution Factor ,





Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642

Date Received: Work Order No: Preparation: Method:

07/27/10 10-07-1937 EPA 5030B EPA 8015B (M)

Project: BP 2107							Pa	age 2 of 2
Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-13A		10-07-1937-5-E	07/23/10 12:00	Aqueous	GC 11	07/30/10	07/31/10 05:27	100730B01
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	95	38-134						
MW-13B		10-07-1937-6-E	07/23/10 12:05	Aqueous	GC 11	07/30/10	07/31/10 06:01	100730B01
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	94	38-134						
Method Blank		099-12-695-868	N/A	Aqueous	GC 11	07/30/10	07/30/10 18:11	100730B01
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	93	38-134						
Method Blank		099-12-695-869	N/A	Aqueous	GC 4	08/02/10	08/02/10 13:49	100802B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
<u>Surrogates:</u>	REC (%)	Control Limits		<u>Qual</u>				
1,4-Bromofluorobenzene	68	38-134						

DF - Dilution Factor

Qual - Qualifiers



Units:



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method:

10-07-1937 EPA 5030B EPA 8260B ug/L

07/27/10

Project: BP 2107

Page 1 of 3

r roject. Br 2107									ı aş	ge i di 3
Client Sample Number			Lab Sam Numbe	•	Matrix	Instrument	Date Prepared	Date/\ Analy		QC Batch II
MW-11A			10-07-1937-1	-A 07/23/10 11:00	Aqueous	GC/MS BB	08/04/10	08/04 18:		100804L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u> Qual	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>
Benzene	20	5.0	10	Methyl-t-Buty	yl Ether (MTE	BE)	350	5.0	10	
1,2-Dibromoethane	ND	5.0	10	Tert-Butyl Al		,	ND	100	10	
1,2-Dichloroethane	ND	5.0	10	Diisopropyl E			ND	5.0	10	
Ethylbenzene	23	5.0	10		Ether (ETBE)	ND	5.0	10	
Toluene	22	5.0	10	Tert-Amyl-M	ethyl Ether (T	AME)	6.5	5.0	10	
Xylenes (total)	ND	5.0	10	Ethanol	, ,	,	ND	3000	10	
Surrogates:	REC (%)	Control Limits	<u>Qual</u>	Surrogates:			REC (%)	Control Limits	<u>C</u>	<u>Qual</u>
1,2-Dichloroethane-d4	106	80-128		Dibromofluor	romethane		99	80-127		
Toluene-d8	103	80-120		1,4-Bromoflu	ıorobenzene		95	68-120		
MW-11B			10-07-1937-2	-A 07/23/10 11:05	Aqueous	GC/MS BB	08/04/10	08/04 19:2		100804L01
Parameter	Result	RL	<u>DF</u> Qual	Parameter			Result	RL	<u>DF</u>	<u>Qual</u>
Benzene	ND	2.5	5	Methyl-t-Buty	yl Ether (MTE	RF)	110	2.5	5	
1,2-Dibromoethane	ND	2.5	5	Tert-Butyl Al	,	/_/	ND	50	5	
1,2-Dichloroethane	ND	2.5	5	Diisopropyl E	, ,		ND	2.5	5	
Ethylbenzene	ND	2.5	5		Ether (ETBE)	ND	2.5	5	
Foluene	ND	2.5	5	, ,	ethyl Ether (T	,	ND	2.5	5	
Xylenes (total)	ND	2.5	5	Ethanol		,,	ND	1500	5	
Surrogates:	REC (%)	Control Limits	Qual	Surrogates:			REC (%)		_	<u>Qual</u>
1,2-Dichloroethane-d4	108	80-128		Dibromofluor	romethane		105	80-127		
Foluene-d8	99	80-120		1,4-Bromoflu			92	68-120		
MW-12A			10-07-1937-3	-A 07/23/10 11:35	Aqueous	GC/MS BB	08/04/10	08/04 19:		100804L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u> Qual	<u>Parameter</u>			Result	RL	<u>DF</u>	Qual
Benzene	ND	0.50	1	Methyl-t-Buty	yl Ether (MTE	BE)	34	0.50	1	
I,2-Dibromoethane	ND	0.50	1	Tert-Butyl Al	,	,	ND	10	1	
I,2-Dichloroethane	ND	0.50	1	Diisopropyl E	, ,		ND	0.50	1	
- Ethylbenzene	ND	0.50	1		Ether (ETBE)	ND	0.50	1	
Γoluene	ND	0.50	1	, ,	ethyl Ether (T	,	ND	0.50	1	
Kylenes (total)	ND	0.50	1	Ethanol	. ,	-	ND	300	1	
Surrogates:	REC (%)	Control Limits	Qual	Surrogates:			REC (%)	Control Limits	<u>C</u>	<u>Qual</u>
1,2-Dichloroethane-d4	106	80-128		Dibromofluor	romethane		101	80-127		
Foluene-d8	96	80-120		1,4-Bromoflu			91	68-120		
i diddiid do		30 120		i, - Diomone				30 120		



DF - Dilution Factor

Qual - Qualifiers



Units:



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method:

10-07-1937 EPA 5030B EPA 8260B ug/L

07/27/10

Project: BP 2107

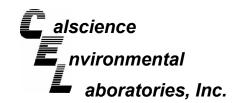
Page 2 of 3

Project: BP 2107										Pa	ge 2 of 3
Client Sample Number				ab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/\ Analy		QC Batch ID
MW-12B			10-07-	1937-4-A	07/23/10 11:30	Aqueous	GC/MS BB	08/04/10	08/04 20:		100804L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>
Benzene	ND	10	20		Methyl-t-Buty	l Ether (MTB	BE)	510	10	20	
1.2-Dibromoethane	ND	10	20		Tert-Butyl Alc	•	,	ND	200	20	
1,2-Dichloroethane	ND	10	20		Diisopropyl E	ther (DIPE)		ND	10	20	
Ethylbenzene	ND	10	20		Ethyl-t-Butyl I	Ether (ETBE)	ND	10	20	
Toluene	ND	10	20		Tert-Amyl-Me	ethyl Ether (T	AME)	ND	10	20	
Xylenes (total)	ND	10	20		Ethanol			ND	6000	20	
Surrogates:	REC (%)	Control Limits	Qua	<u>al</u>	Surrogates:			REC (%)	Control Limits	<u>C</u>	<u>Qual</u>
1,2-Dichloroethane-d4	105	80-128			Dibromofluor	omethane		99	80-127		
Toluene-d8	97	80-120			1,4-Bromoflu	orobenzene		91	68-120		
MW-13A			10-07-	1937-5-A	07/23/10 12:00	Aqueous	GC/MS BB	08/04/10	08/04 20:4		100804L01
Parameter	Result	RL	<u>DF</u>	Qual	Parameter			Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Buty	l Ether (MTR	IE)	24	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alc	,	,L)	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl E	` ,		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl I	,)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	•	,	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	, , , ,	,	ND	300	1	
Surrogates:	<u>REC (%)</u>	Control Limits	Qua	<u>al</u>	Surrogates:			REC (%)	Control Limits	<u>C</u>	<u>Qual</u>
1,2-Dichloroethane-d4	113	80-128			Dibromofluoro	omethane		104	80-127		
Toluene-d8	101	80-120			1,4-Bromoflu	orobenzene		92	68-120		
MW-13B			10-07-	1937-6-A	07/23/10 12:05	Aqueous	GC/MS BB	08/04/10	08/04 16:		100804L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>
Benzene	ND	0.50	1		Methyl-t-Buty	l Ether (MTB	BE)	15	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alc	,	•	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl E	, ,		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl I	Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	•	•	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol			ND	300	1	
Surrogates:	<u>REC (%)</u>	Control Limits	Qua	<u>al</u>	Surrogates:			REC (%)	Control Limits	<u>C</u>	<u>Qual</u>
1.2-Dichloroethane-d4	93	80-128			Dibromofluor	omethane		98	80-127		
Toluene-d8	99	80-120			1.4-Bromoflu			88	68-120		
Toluene-d8	99	80-120			1,4-Bromofiu	orobenzene		00	68-120		



DF - Dilution Factor

Qual - Qualifiers





Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received:
Work Order No:
Preparation:
Method:
Units:

07/27/10 10-07-1937 EPA 5030B EPA 8260B ug/L

Project: BP 2107

Page 3 of 3

Client Sample Number			L	ab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/T Analy		QC Batch ID
Method Blank			099-1	2-703-1,413	N/A	Aqueous	GC/MS BB	08/04/10	08/04 15:5		100804L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>			Result	<u>RL</u>	<u>DF</u>	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl	Ether (MTE	BE)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alc	ohol (TBA)		ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Et	ther (DIPE)		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl E	Ether (ETBE)	ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Me	thyl Ether (T	AME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol			ND	300	1	
Surrogates:	REC (%)	Control	Qu	ı <u>al</u>	Surrogates:			REC (%)	Control	<u>C</u>	<u>Qual</u>
		<u>Limits</u>							<u>Limits</u>		
1,2-Dichloroethane-d4	105	80-128			Dibromofluoro	methane		102	80-127		
Toluene-d8	101	80-120			1,4-Bromofluo	orobenzene		94	68-120		



Quality Control - Spike/Spike Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method: 07/27/10 10-07-1937 EPA 5030B EPA 8015B (M)

Project BP 2107

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Analyzed	MS/MSD Batch Number	
10-07-1936-1	Aqueous	GC 11	07/30/10		07/30/10	100730S01	
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	<u>Qualifiers</u>	
Gasoline Range Organics (C6-C12)	77	74	38-134	4	0-25		

RPD - Relative Percent Difference ,
7440 Lincoln

CL - Control Limit



Quality Control - Spike/Spike Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method: 07/27/10 10-07-1937 EPA 5030B EPA 8015B (M)

Project BP 2107

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
10-07-2154-3	Aqueous	GC 4	08/02/10		08/02/10	100802S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	<u>Qualifiers</u>
Gasoline Range Organics (C6-C12)	103	101	38-134	2	0-25	

MMM_

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method: 07/27/10 10-07-1937 EPA 5030B EPA 8260B

Project BP 2107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	,	Date Analyzed	MS/MSD Batch Number
MW-13B	Aqueous	GC/MS BB	08/04/10		08/04/10	100804S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	112	110	76-124	2	0-20	
Carbon Tetrachloride	92	92	74-134	0	0-20	
Chlorobenzene	108	109	80-120	1	0-20	
1,2-Dibromoethane	113	123	80-120	8	0-20	LM,AY
1,2-Dichlorobenzene	103	108	80-120	5	0-20	
1,2-Dichloroethane	120	120	80-120	0	0-20	
Ethylbenzene	106	106	78-126	0	0-20	
Toluene	113	111	80-120	2	0-20	
Trichloroethene	109	106	77-120	3	0-20	
Methyl-t-Butyl Ether (MTBE)	132	148	67-121	5	0-49	LM,AY
Tert-Butyl Alcohol (TBA)	107	108	36-162	1	0-30	
Diisopropyl Ether (DIPE)	101	100	60-138	1	0-45	
Ethyl-t-Butyl Ether (ETBE)	102	101	69-123	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	108	107	65-120	1	0-20	
Ethanol	121	117	30-180	4	0-72	

MMM_



Quality Control - LCS/LCS Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method: N/A 10-07-1937 EPA 5030B EPA 8015B (M)

Project: BP 2107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	I	LCS/LCSD Batch Number	n
099-12-695-868	Aqueous	GC 11	07/30/10	07/30/10		100730B01	
<u>Parameter</u>	LCS %	6REC LCSD	<u>%REC</u> <u>%</u>	REC CL	<u>RPD</u>	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	106	105		78-120	1	0-20	



Quality Control - LCS/LCS Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method:

10-07-1937 EPA 5030B EPA 8015B (M)

N/A

Project: BP 2107

Quality Control Sample ID	Matrix	Matrix Instrument		Date Analyze	d	LCS/LCSD Batch Number	า
099-12-695-869	Aqueous	GC 4	08/02/10	08/02/10		100802B01	
<u>Parameter</u>	LCS %	6REC LCSD	<u>%REC</u> <u>%</u>	REC CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	95	95		78-120	0	0-20	



Quality Control - LCS/LCS Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method: N/A 10-07-1937 EPA 5030B EPA 8260B

Project: BP 2107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD I Numbe	
099-12-703-1,413	Aqueous	GC/MS BB	08/04/10	08/04/10		100804L	01
<u>Parameter</u>	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	105	104	80-120	73-127	1	0-20	
Carbon Tetrachloride	86	89	74-134	64-144	3	0-20	
Chlorobenzene	104	105	80-120	73-127	1	0-20	
1,2-Dibromoethane	104	111	79-121	72-128	6	0-20	
1,2-Dichlorobenzene	104	104	80-120	73-127	0	0-20	
1,2-Dichloroethane	109	111	80-120	73-127	2	0-20	
Ethylbenzene	103	103	80-120	73-127	0	0-20	
Toluene	107	105	80-120	73-127	1	0-20	
Trichloroethene	101	101	79-127	71-135	1	0-20	
Methyl-t-Butyl Ether (MTBE)	90	94	69-123	60-132	3	0-20	
Tert-Butyl Alcohol (TBA)	94	93	63-123	53-133	1	0-20	
Diisopropyl Ether (DIPE)	97	98	59-137	46-150	1	0-37	
Ethyl-t-Butyl Ether (ETBE)	96	101	69-123	60-132	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	97	98	70-120	62-128	1	0-20	
Ethanol	138	107	28-160	6-182	25	0-57	

Total number of LCS compounds: 15

Total number of ME compounds: 0

Total number of ME compounds allowed: LCS ME CL validation result: Pass





Glossary of Terms and Qualifiers



Work Order Number: 10-07-1937

<u>Qualifier</u> AX	<u>Definition</u> Sample too dilute to quantify surrogate.
ВА	Relative percent difference out of control.
BA,AY	BA = Relative percent difference out of control. AY = Matrix interference suspected.
BB	Sample > 4x spike concentration.
BF	Reporting limits raised due to high hydrocarbon background.
BH	Reporting limits raised due to high level of non-target analytes.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
BY	Sample received at improper temperature.
BZ	Sample preserved improperly.
CL	Initial analysis within holding time but required dilution.
CQ	Analyte concentration greater than 10 times the blank concentration.
CU	Surrogate concentration diluted to not detectable during analysis.
DF	Reporting limits elevated due to matrix interferences.
DU	Insufficient sample quantity for matrix spike/dup matrix spike.
ET	Sample was extracted past end of recommended max. holding time.
EY	Result exceeds normal dynamic range; reported as a min est.
GR	Internal standard recovery is outside method recovery limit.
IB	CCV recovery abovelimit; analyte not detected.
IH	Calibrtn. verif. recov. below method CL for this analyte.
IJ	Calibrtn. verif. recov. above method CL for this analyte.
J,DX	J=EPA Flag -Estimated value; DX= Value < lowest standard (MQL), but > than MDL.
LA	Confirmatory analysis was past holding time.
LG,AY	LG= Surrogate recovery below the acceptance limit. AY= Matrix interference suspected.
LH,AY	LH= Surrogate recovery above the acceptance limit. AY= Matrix interference suspected.
LM,AY	LM= MS and/or MSD above acceptance limits. See Blank Spike (LCS). AY= Matrix interference suspected.
LN,AY	LN= MS and/or MSD below acceptance limits. See Blank Spike (LCS). AY= Matrix interference suspected.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.

Work Order Number: 10-07-1937

Qualifier LW	<u>Definition</u> Quantitation of unknown hydrocarbon(s) in sample based on gasoline.
LX	Quantitation of unknown hydrocarbon(s) in sample based on diesel.
MB	Analyte present in the method blank.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
PC	Sample taken from VOA vial with air bubble > 6mm diameter.
PI	Primary and confirm results varied by > than 40% RPD.
RB	RPD exceeded method control limit; % recoveries within limits.
SG	A silica gel cleanup procedure was performed.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



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Laboratory Management Program LaMP Chain of Custody Record

(1022)	
(1901)	
TD-TAT	

Page ____ of ____

BP/ARC Project Name: BP 2107 Req Due Date (mm/dd/yy): STD-TAT Rush TAT: Yes ___ No _X **BP/ARC Facility No:** 2107 A BP affiliated company Lab Work Order Number: Lab Name: Cal science BP/ARC Facility Address: 3310 Park Blvd. Consultant/Contractor: Broadbent & Associates, Inc. Lab Address: 7440 Lincoln Way City, State, ZIP Code: Oakland, CA Consultant/Contractor Project No: 06-88-614-1-813 Lab PM: Richard Villafania Lead Regulatory Agency: **ACEH** Address: 875 Cotting Lane Ste. G. Vacaville, CA 95688 ab Phone: 714-895-5494 / 714-895-7501 (fax) California Global ID No.: T06019734306 Consultant/Contractor PM: Tom Sparrowe Lab Shipping Acent: 9255 Enfos Proposal No: 000TK-0004 Phone: 707-455-7290 / 707-455-7295 (fax) Lab Bottle Order No: Accounting Mode: Provision X OOC-BU OOC-RM Email EDD To: <u>tsparrowe@broad</u>bentinc.com Other Info: Stage: Appraise (1) Activity: Monitoring (13) Invoice To: BP/ARC X Contractor _ BP/ARC EBM: Chuck Carmel Matrix No. Containers / Preservative Requested Analyses Report Type & QC Level EBM Phone: 925-275-3803 Standard _X_ Containers EBM Email: charles.carmel@bp.com Full Data Package _____ ŏ Water / Liquid Lab 1,2-DCA (8260) Total Number (8260) Unpreserved Sample Description Oxys (8260) Date BTEX (8260) Time GRO (8015) No. Soil / Solid Air / Vapor EDB (8260) Comments Methanol Ethanol H₂SO₄ HNO3 Note: If sample not collected, indicate "No Sample" in comments and single-strike out 오 and initial any preprinted sample description. MW-11A 7/23/2010 Х 1100 6 Х Х Х Х Х Х MW-11B 7/23/2010 1105 Х 6 Х Х Х Х Х Х Х MW-12A 7/23/2010 Х 1135 6 Х Х Х Х Х Х Х MW-12B 7/23/2010 Х 1130 6 Х Х Х Х Х Х Х MW-13A 7/23/2010 Х 1200 6 Х Х Х Х Х Х MW-13B 7/23/2010 1205 Х 6 Х Х Х Х Х Х TB - 2107 -100723 7/23/2010 ON HOLD Sampler's Name: Erit Farrir Relinquished By / Affiliation Date Time Accepted By / Affiliation Date Time Sampler's Company: 7/5/10 lh@ /∞°@ Ship Date: 7/26/10 Shipment Method: Shipment Tracking No: Special Instructions: THIS LINE - LAB USE ONLY: Custody Seals in Place: Yes / No Temp Blank: Yes / No Cooler Temp on Receipt: °F/C Trip Blank: Yes / No MS/MSD Sample Submitted: Yes / No



1	BATE BOMPAN ANDRESS		SHIPPING AIR BILL PACKAGE INFORMATION LETTER (MAX 8 OZ) PACKAGE (WT)	1);;;;
R O	Address Sity	ENC STEZ HOOM C ZIP CODE SCAN COMP	1-800-322-5555 WWW.GSO.COM DECLARED VALUE \$ COD AMOUNT \$ (CASHNOT ACCEPTED)	
VI	SENDERS CONTROL COMPANY CIENCE		DELIVERY DY PRIORITY DELIVERY BY 10:30 AM DELIVERY TIMES MAY BE LATER IN SOME AREAS - CONSULT YOUR SERVICE GUIDE OR CALL GÖLDEN STATE OVER	
2	NAME	PHONE NUMBER 714) 895-5494	6 RELEASE SIGNATURE SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE	_
၂ ၅	APPLESS INCOLN VVAY ADDRESS	. STE/	PICK UP	_
	MARDEN GROVE	ROOM ZIP GODE 22841	INFORMATION TIME DRIVER # ROUTE #	_
	YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE	et i se e e e e e e e e e e e e e e e e e	9 GSO TRACKING NUMBER 106836601	
NST	RUCTIONS		GSO TRACKING NUMBER	٠

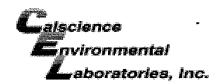


WORK ORDER #: 10-07- \(\text{ \text{ \text{ \text{9}}} \)

SAMPLE RECEIPT FORM Cooler \ of \ DATE: 07/27/10 CLIENT: BAI TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C - 6.0 °C, not frozen) Temperature $2 \cdot 9 \text{ °C} + 0.5 \text{ °C (CF)} = 2 \cdot 8 \text{ °C}$ **☑** Blank □ Sample ☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____). ☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling. ☐ Received at ambient temperature, placed on ice for transport by Courier. Initial: W Ambient Temperature: 🗓 Air ☐ Filter ☐ Metals Only □ PCBs Only **CUSTODY SEALS INTACT:** Initial: W/3 ☑ Cooler ☐ No (Not Intact) □ Not Present □ N/A Not Present Initial: ☐ No (Not Intact) □ Sample N/A SAMPLE CONDITION: Yes No Chain-Of-Custody (COC) document(s) received with samples....... COC document(s) received complete...... ☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels. ☐ No analysis requested. Not relinquished. ☐ No date/time relinquished. Sampler's name indicated on COC..... Sample container label(s) consistent with COC...... Sample container(s) intact and good condition...... Proper containers and sufficient volume for analyses requested...... \Box Analyses received within holding time...... pH / Residual Chlorine / Dissolved Sulfide received within 24 hours....... 17 Proper preservation noted on COC or sample container..... ☐ Unpreserved vials received for Volatiles analysis Tedlar bag(s) free of condensation...... **CONTAINER TYPE:** Solid: □4ozCGJ □8ozCGJ □16ozCGJ □Sleeve (_____) □EnCores® □TerraCores® □ Water: □VOA □VOAh □VOAna2 □125AGB □125AGBh □125AGBp □1AGB □1AGBna2 □1AGBs □500AGB □500AGJ □500AGJs □250AGB □250CGB □250CGBs □1PB □500PB □500PBna □250PB □250PBn □125PB □125PBznna □100PJ □100PJna₂ □ □ □ □ Air: □Tedlar® □Summa® Other: □____ Trip Blank Lot#:[ஶ���A Labeled/Checked by: _火 Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by:

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ znna: ZnAc₂+NaOH f: Field-filtered Scanned by:

SOP T100_090 (01/29/10)



WORK ORDER #: 10-07- □ □ □ □ □

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS: Comments:											
□ Sample(s)/Container(s) NOT RECEIVED but listed on COC □ Sample(s)/Container(s) received but NOT LISTED on COC □ Holding time expired – list sample ID(s) and test □ Insufficient quantities for analysis – list test □ Improper container(s) used – list test □ Improper preservative used – list test □ No preservative noted on COC or label – list test & notify lab □ Sample labels illegible – note test/container type □ Sample label(s) do not match COC – Note in comments											
	Sample										
			ne Collec	ted							
	=	Informa								····	
	# of Co Analysi	ntainer(:	5)								
			compror	nised – Note	a in comr	mante					
			-	container	s III COIIII	Henis					
	Broken		ii sampie	Container							
	•	t Label(:	s)						_		
		•	-	promised –	Note in o	comments					
	Flat										
	Very lo	w in vol	ume								
				d - duplicate	_	•		· · · · · · · · · · · · · · · · · · ·			
				o Calscienc							
	☐ Leaking (transferred into Client's Tedlar® Bag*)										
☐ Othe	r:						 				
HEADSI	PACE -	- Contai	ners wit	h Bubble >	6mm o	r ¼ inch:					
Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	<u> </u>	Analysis	
7	B	2							- ,		
Comments:											
									~^		
*Transferred at Client's request. Initial / Date: 5 07 /27/10											

FIELD PROCEDURES

A.1 QUALITY ASSURANCE/QUALITY CONTROL FIELD PROTOCOLS

Field protocols have been implemented to maximize the accuracy and reliability of data collection, Groundwater sample collection, transportation and laboratory analysis. Discussion of these protocols is provided below.

A.1.1 Water Level & Free-Phase Product Measurement

Prior to Groundwater sample collection from each monitor well, the presence of free-phase product and depth to ground water shall be measured. Depth to ground water will be measured with a standard M-Scope water level indicator (or equivalent) that has been decontaminated prior to its use in accordance with procedures discussed below. Depth to ground water will be gauged from a saw cut notch at the top of the well casing on each well head. Once depth to water has been measured, a new disposable bailer will be utilized to monitor for the presence and thickness of free-phase product.

A.1.2 Monitor Well Purging

Subsequent to measuring depth to ground water, a minimum of three casing volumes of water will be purged from each monitor well using a Geosquirt submersible pump (or equivalent) and disposable plastic tubing dedicated to each individual well. The well will be purged at a low flow rate to minimize the possibility of purging the well dry. To assure that the sample collected is representative of formation water, several field parameters will be monitored during the purging process and the sample will not be collected until these parameters have stabilized to within 10% of a measured value. These parameters will include temperature, pH, and conductivity. If a well is purged dry, the sample will not be collected until the well has recovered to a minimum 50% of its initial volume.

Groundwater sampling equipment (e.g., M-scope and the Geosquirt purge pump) will be thoroughly cleansed with a solution of Liquinox, rinsed with tap water, and finally rinsed with control water prior to use in each well. Pre-cleaned disposable bailers and disposable plastic tubing will be dedicated to each individual well.

A.1.3 Groundwater Sample Collection

Once the wells are satisfactorily purged, water samples will be collected from each well. Water samples for organic analyses will be collected using a clean disposable bailer and transferred to laboratory-prepared 40 ml vials, in duplicate; such that no head space or air bubbles are present in the sample. The samples will be properly labeled (sample identification, sampler initials, date and time of collection, site location, and requested analyses), placed in an ice chest with blue ice, and delivered to an analytical laboratory.

A.1.4 Surface Water Sample Collection

Surface water samples will be collected from mid-depth in the central area of the associated stream. Water samples will be collected in laboratory-prepared 40 ml vials by dipping the vial into the stream water. Each vial will be inverted to check that no head space or bubbles are present. The samples will be properly labeled and transported as described above.

A.1.5 Chain of Custody Procedure

Sample identification documents will be carefully prepared so identification and chain of custody can be maintained and sample disposition can be controlled. The sample identification documents include Chain-of-Custody (COC) records and Daily Field Report forms. Chain of custody procedures are outlined below.

Field Custody Procedures

The field sampler is personally responsible for the care and custody of the samples collected until they are properly transferred.

Samples will have individual labels. The information on these labels will correspond to the COC which shows the identification of individual samples and the contents of the shipping container. The original COC will accompany the shipment and a copy will be retained by the sampler for the client.

The staff person conducting the sampling will determine whether proper custody procedures were followed during the field work.

Transfer of Custody and Shipment

A COC will accompany samples during transfer and shipment. When transferring samples, the individual's relinquishing and receiving the samples will sign, date, and note the time on the COC. This COC documents the sample custody transfer.

Samples will be packaged properly for shipment and dispatched to the appropriate laboratory for analysis, with a separate COC accompanying each shipment. Shipments will be accompanied by the original COC. Samples will be delivered by BAI personnel to the laboratory, or shipped by courier.

A.1.6 Field Records

In addition to sample identification numbers and Chain-of Custody records, Daily Field Report records will be maintained by staff personnel to provide daily records of significant events, observations, and measurements during field investigations. These documents will contain information such as: personnel present, site conditions, sampling procedures, measurement procedures, calibration records, etc. Field measurements will be recorded on the appropriate forms. Entries on the data forms will be signed and dated. The data forms will be kept as permanent records.

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION RECEIPTS

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type: EDF - Monitoring Report - Semi-Annually

Submittal Title: 3Q10 GW Monitoring

 Facility Global ID:
 T06019734306

 Facility Name:
 ARCO #2107

 File Name:
 10071937.zip

Organization Name: Broadbent & Associates, Inc.

<u>Username:</u> BROADBENT-C IP Address: 67.118.40.90

<u>Submittal Date/Time:</u> 9/3/2010 10:48:29 AM

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