

Atlantic Richfield Company (a BP affiliated company)

1:34 pm, Jul 31, 2009

RECEIVED





P.O. Box 1257 San Ramon, California 94583 Phone: (925) 275-3801

Fax: (925) 275-3815

30 July 2009

Re: Second Quarter 2009 Ground-Water Monitoring Report

Atlantic Richfield Company Service 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:

Paul Supple

Environmental Business Manager

Second Quarter 2009 Ground-Water Monitoring Report Atlantic Richfield Company Station #2107 3310 Park Boulevard Oakland, California

Prepared for

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

Prepared by



1324 Mangrove Avenue, Suite 212 Chico, California 95926 (530) 566-1400 www.broadbentinc.com

30 July 2009

Project No. 06-88-614



30 July 2009

Project No. 06-88-614

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

Attn.: Mr. Paul Supple

Re:

Second Quarter 2009 Ground-Water Monitoring Report, Atlantic Richfield Company (a BP affiliated company) Station #2107, 3310 Park Boulevard, Oakland, California;

ACEH Case No.RO0002526

Dear Mr. Supple:

Attached is the *Second Quarter 2009 Ground-Water Monitoring Report* for Atlantic Richfield Company Station #2107 located at, 3310 Park Boulevard, Oakland, Alameda County, California (Site). This report presents results of ground-water monitoring conducted at the Site during the Second Quarter of 2009.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.

Senior Engineer

Rob Miller, P.G., C.HG. Principal Hydrogeologist

Enclosures

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

Electronic copy uploaded to GeoTracker

NEVADA

ARIZONA

CALIFORNIA

TEXAS

No. 561

CERTIFIED

STATION # 2107 QUARTERLY GROUND-WATER MONITORING REPORT

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

Environmental Business Manager: Mr. Paul Supple

Consulting Co./Contact Persons: Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus

(530) 566-1400

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 OUARTER (Second Quarter 2009):

1. Prepared and submitted *Ground-Water Investigation and First Quarter 2009 Ground-Water Monitoring Report* (BAI, 4/30/2009).

2. Conducted ground-water monitoring/sampling for Second Quarter 2009. Work performed on 18 June 2009 by Stratus Environmental, Inc. (Stratus).

WORK PROPOSED FOR NEXT QUARTER (Third Quarter 2009):

1. Prepared and submitted this *Second Quarter 2009 Ground-Water Monitoring Report* (contained herein).

2. Conduct ground-water monitoring/sampling for Third Quarter 2009.

QUARTERLY RESULTS SUMMARY:

Current phase of project: **Ground-Water Monitoring/Sampling** Quarterly: MW-11A, MW-11B, MW-12A, MW-12B, Frequency of ground-water monitoring:* MW-13A, MW-13B Frequency of ground-water **Quarterly: MW-11A, MW-11B, MW-12A, MW-12B,** sampling:* 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): 2.85 ft (MW-13B) to 14.58 ft (MW-11A) General ground-water flow direction: Northeast ('B' wells) 0.06 ft/ft ('B' wells) Approximate hydraulic gradient:

DISCUSSION:

First quarter 2009 ground-water monitoring and sampling was conducted at Station No. 2107 on 18 June 2009 by Stratus 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 2.85 ft at MW-13B to 14.58 ft at MW-11A. Resulting ground-water surface elevations ranged from 113.93 ft in well MW-11B to 106.27 ft at well MW-11A. Water level elevations are summarized in Table 1. A review of the Second Quarter 2009 ground-water level elevations shows an initial upward vertical hydraulic gradient between paired wells MW-11A and MW-11B, a slight upward vertical hydraulic gradient (almost negligible) between 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 during the First Quarter 2009. Water level elevations in the three 'B' wells

^{*} Current schedule through Fourth Quarter 2009. Proposed modifications discussed below.

yielded a potentiometric ground-water flow direction and gradient to the northeast at approximately 0.06 ft/ft (see Table 3). Further future rounds of ground-water monitoring should determine whether this flow direction and gradient are representative of normal conditions at the Site and vicinity. Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground water and respective ground-water elevations are summarized in Table 1. A Site Location Map is provided as Drawing 1. Potentiometric ground-water elevation contours are presented in Drawing 2.

Ground-water samples were collected from wells MW-11A, MW-11B, MW-12A, MW-12B, MW-13A, and MW-13B. 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 Tert-Amyl Methyl Ether (TAME), Tert-Butyl Alcohol (TBA), Di-Isopropyl Ether (DIPE), Ethyl Tert-Butyl Ether (ETBE), and Methyl Tert-Butyl Ether (MTBE) by EPA Method 8260B. No significant irregularities were encountered during laboratory analysis of the samples. Ground-water 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 three of the six wells sampled at concentrations of 260 micrograms per liter (μ g/L) in well MW-11A, 130 μ g/L in well MW-11B and 140 μ g/L in well MW-12B. Benzene was detected above the laboratory reporting limit in one of the six wells sampled at concentrations of 11 μ g/L in well MW-11A. Ethylbenzene was detected above the laboratory reporting limit in one of the six wells sampled at concentrations of 6.8 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 380 μ g/L in well MW-12B. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the six 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. A copy of the laboratory analytical report, including chain-of-custody documentation is provided in Appendix A. Ground-water 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 two rounds of monitoring appears to show an upward vertical gradient at MW-11A/MW-11B, a negligible vertical gradient at MW-13A/MW-13B, and downward vertical gradient at MW-12A/MW-12B. As was mentioned in the *Ground-Water Investigation and First Quarter 2009 Ground-Water 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 variation from the planned scope of work. The validity of data distinguishing ground-water conditions between wells MW-13A and MW-13B is therefore suspect.

In accordance with the letter sent by Atlantic Richfield Company to ACEH dated 26 June 2009, BAI recommends continued quarterly monitoring and sampling (for at least two more calendar quarters) to seek trends in the ground-water flow direction, vertical and horizontal gradients, contaminant concentrations, and to evaluate the reliability of data from the MW-13A/MW-13B paired wells.

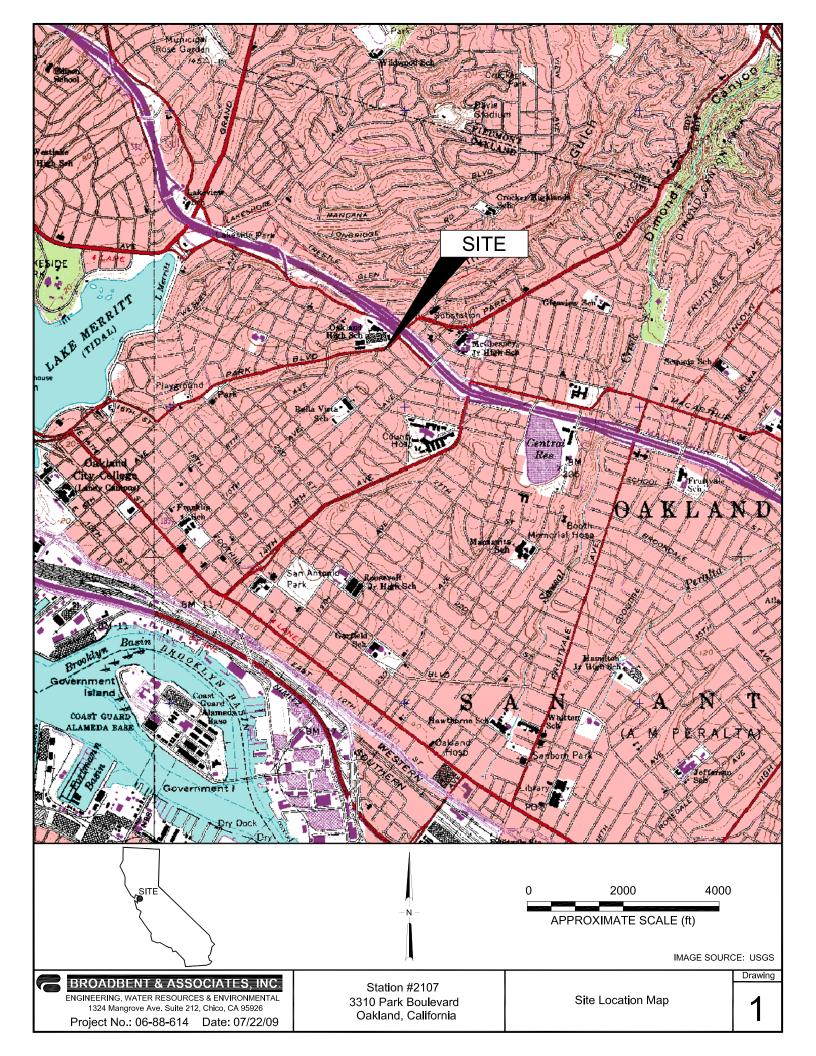
Page 3

CLOSURE:

The findings presented in this report are based upon: observations of Stratus field 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 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 ground-water 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. Ground-Water Elevation Contour and Analytical Summary Map, 18 June 2009, Station #2107, 3310 Park Boulevard, Oakland, California
- Table 1. Summary of Ground-Water 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 Ground-Water Flow Direction and Gradient Data, Station #2107, 3310 Park Boulevard, Oakland, California
- Appendix A. Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets, Laboratory Analytical Report with Chain-of-Custody Documentation, and Field Procedures).
- Appendix B. GeoTracker Upload Confirmation Receipts



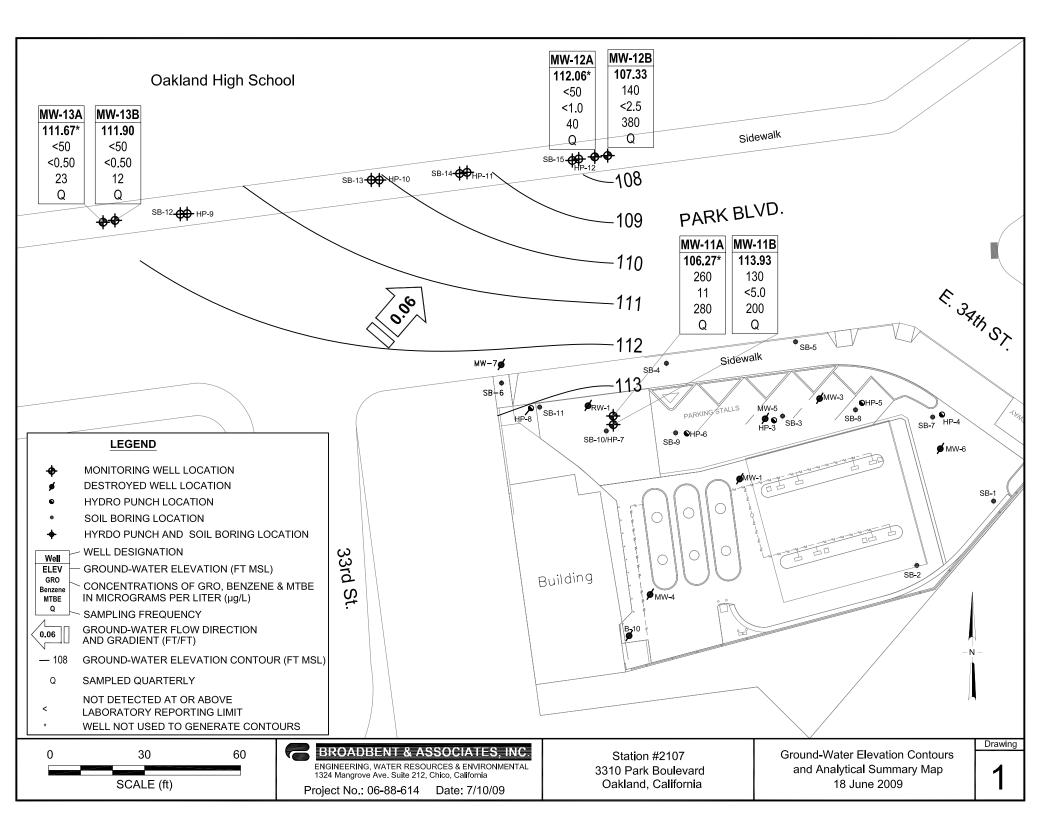


Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #2107, 3310 Park Boulevard, Oakland, CA

				Top of	Bottom of		Water Level			Concentra	tions in (µ	g/L)			
Well and Sample Date	P/NP	Comments	TOC (feet)	Screen (ft bgs)	Screen (ft bgs)	DTW (feet bgs)	Elevation (feet)	GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	МТВЕ	DO (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
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
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
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
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
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

ABBREVIATIONS AND SYMBOLS:

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

 μ g/L = Micrograms per liter

DO = Dissolved oxygen

DTW = Depth to water in ft bgs

ft bgs = Feet below ground surface

ft MSL = Feet above mean sea level

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 MSL

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 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	
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	
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	
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	
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	
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	

ABBREVIATIONS AND SYMBOLS:

-- = Not analyzed/applicable/measurable < = Not detected above reported detection limit

1,2-DCA = 1,2-Dichloroethane

μg/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 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

APPENDIX A

STRATUS GROUND-WATER SAMPLING DATA PACKAGE (INCLUDES FIELD DATA SHEETS, LABORATORY ANALYTICAL REPORT WITH CHAIN-OF-CUSTODY DOCUMENTATION, AND FIELD PRODEDURES)



July 8, 2009

Mr. Rob Miller Broadbent & Associates, Inc. 2000 Kirman Avenue Reno, NV 89502

Re: Groundwater Sampling Data Package, ARCO Service Station No. 2107, located at

3310 Park Boulevard, Oakland, California.

General Information

Data Submittal Prepared / Reviewed by: Carol Huff / Jay Johnson

Phone Number: (530) 676-6000

On-Site Supplier Representative: Tony Hill

Sampling Date: June 18, 2009

Unusual Field Conditions: None noted.

Scope of Work Performed: Quarterly monitoring and sampling.

Variations from Work Scope: Wells MW-11A, MW-12A, MW-12B, and MW-13A

purged dry before three casing volumes were removed.

This submittal presents the data collected in association with routine groundwater monitoring. The attachments include field data sheets, non-hazardous waste data form, chain of custody documentation, certified analytical results, and field procedures for groundwater sampling. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations.

Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Jay R. Johnson

Project Manager

No. 5867

Attachments:

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results
- Field Procedures for Groundwater Monitoring

CC: Mr. Paul Supple, BP/ARCO

57KATUS ENVIRONMENTAL INC. Site Address 3310 Site Number City Oakkard Sampled by: __†\\ Project Number E 2107-64 Project PM Signature

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1N - 3B 1100			22.44	19.59	3	-, S S	9.80	2.5 10		× D _y	2.5	5.13	13A 13A 13B	1315 1335 1355	
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pH/Conductivity/temperature Meter - Oakton Model PC-10 DO Meter - Oakton 300 Series (DO is always measured before purge)

CALIBRATION DATE Ηq Conductivity

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Project No. Arco 2107
Project PM Jun Johnson
Date Sampled 611819

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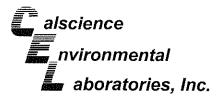
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Atlantic Company OABP of filiated company

Laboratory Management Program LaMP Chain of Custody Record

Company ÖABP affiliated company	BP/ARC Project Name: BP/ARC Facility No:	ARCO 2107	2107	Req Due Date (mr Lab Work Order N	m/dd/yy): _STD - TAT	Page of Rush TAT: Yes No		
ab Name: Cal Science		BP/ARC Facility Addres		-as ron order n	umper:			
ab Address: 7440 Lincoln Way		City, State, ZIP Code:	Oakland, CA		Consultant/Contractor: Stratus Environmental			
ab PM: Richard Villafania		Lead Regulatory Agenc			Consultant/Contractor Project No: E2107-QM/O&M			
ab Phone: 714-895-5494 / 714-895-75	01 (fax)	California Global ID No.			Address: 3330 Cameron Park	Dr., Cameron Park, CA 95682		
ab Shipping Acent:		Enfos Proposal No:		06	Consultant/Contractor PM: Jay			
b Bottle Order No:		Accounting Mode:	000TK-0003	3	Phone: 530-676-6000 / 530-6	576-6005 (fax)		
her Info:			Provision X OOC-BU	OOC-RM	Email EDD To: <u>clauff@strat</u> u	usinc.net		
VARC EBM: Paul Supple			iseActivity: Morcito		Invoice To: BP/ARC			
M Phone: 925-275-3506		Matrix N	o. Containers / Preservative	Requ	ested Analyses	Report Type & QC Level		
M Email: paul,supple@bp.com		S		UKINK				
ab		d of Containers		5005 H 500x 4		Standard 🟃 Full Dala Package		
Sample Description	Date Time	Soil / Solid Water / Liquid Air / Vapor Total Number o	Unpreserved H ₂ SO ₄ HNO ₃ HCI Methanol	GROBY STEX / EDS // EHYMAD		Comments Note: If sample not collected, indicate "Ni Sample" in comments and single-strike or		
MW-11A	(0/18 1305 1420	6		XXXX		and initial any preprinted sample description		
laa lab laa	1375							
MW-13B	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\)				
TB-2107-06182009		a				- ON 14W		
Neds Name A 1133								
oler's Name: A, H'//		Relinquish	ed By / Affiliation	Date Time	Accepted By / Affili			
nent Method: 650	Ship Date: 6 20 09			62/11/1500	Accepted by / Affili	ation Date Time		
ment Tracking No:								
cial Instructions: Please cc results t		And the second s						
THIS LINE - LAB USE ONLY: Custoo	ly Seals In Place: Yes / No	Temp Blank: Yes / No	Cooler Temp on Receipt:					



July 07, 2009

Jay Johnson Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Calscience Work Order No.: Subject: 09-06-2042

Client Reference: **ARCO 2107**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 6/24/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. 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,

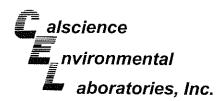
Calscience Environmental

Laboratories, Inc.

Richard Villafania

Richard Vellar).

Project Manager





Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Date Received: Work Order No: Preparation: Method:

06/24/09 09-06-2042 EPA 5030B EPA 8015B (M)

Project: ARCO 2107

Page 1 of 2

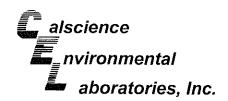
Project: ARCO 2107							Pa	age 1 of 2
Client Sample Number		Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch II
MW-11A		09-06-2042-1-D	06/18/09 13:05	Aqueous	GC 4	06/29/09	06/29/09 18:31	090629B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Gasoline Range Organics (C6-C12)	260	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		<u>Qual</u>				
,4-Bromofluorobenzene	108	38-134						
MW-11B		09-06-2042-2-E	06/18/09 14:20	Aqueous	GC 4	06/29/09	06/29/09 19:04	090629B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Gasoline Range Organics (C6-C12)	130	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		Qual				
,4-Bromofluorobenzene	115	38-134						
MW-12A		09-06-2042-3-E	06/18/09 13:25	Aqueous	GC 4	06/29/09	06/29/09 19:37	090629B01
<u>arameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
asoline Range Organics (C6-C12)	ND	50	1		ug/L			
urrogates:	REC (%)	Control Limits		Qual				
4-Bromofluorobenzene	115	38-134						
MW-12B		09-06-2042-4-D	06/18/09 13:15	Aqueous	GC 4	06/29/09	06/29/09 17:58	090629B01
<u>arameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
asoline Range Organics (C6-C12)	140	50	1		ug/L			
	REC (%)	Control Limits		Qual				
urrogates:	120 (70)	COMMON CHIMIC		-				

RL - Reporting Limit ,

DF - Dilution Factor ,

Qual - Qualifiers





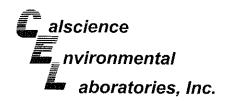
Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Date Received: Work Order No: Preparation: Method:

06/24/09 09-06-2042 EPA 5030B EPA 8015B (M)

Project: ARCO 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		09-06-2042-5-E	06/18/09 13:35	Aqueous	GC 4	06/29/09	06/29/09 20:09	090629B01
<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		Qual				
1,4-Bromofluorobenzene	108	38-134						
MW-13B		09-06-2042-6-E	06/18/09 12:55	Aqueous	GC 4	06/29/09	06/29/09 20:43	090629B01
<u>Parameter</u>	Result	<u>RL</u>	DF	Qual	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		Qual				
1,4-Bromofluorobenzene	115	38-134						
Method Blank		099-12-695-589	N/A	Aqueous	GC 4	06/29/09	06/29/09 13:01	090629B01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Units</u>			
Gasoline Range Organics (C6-C12)	ND	50	1		ug/L			
Surrogates:	REC (%)	Control Limits		Qual				
1,4-Bromofluorobenzene	98	38-134						

DF - Dilution Factor ,



Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Date Received: Work Order No: Preparation: Method: Units: 06/24/09 09-06-2042 EPA 5030B EPA 8260B

Project: ARCO 2107

Page 1 of 3

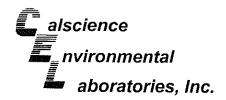
ug/L

Troject. ARCO 2101								гау	етогз
Client Sample Number				ab Sample Number	Date/Time Collected Matrix Instru	Date ment Prepared	Date/1 d Analy		QC Batch II
MW-11A			09-06-	2042-1-E	06/18/09 Aqueous GC/M 13:05	S BB 06/27/09	06/27 22:2		090627L01
<u>Parameter</u>	Result	<u>RL</u>	DF	<u>Qual</u>	<u>Parameter</u>	Result	<u>RL</u>	DE	Qual
Benzene	11	5.0	10		Methyl-t-Butyl Ether (MTBE)	280	5.0	10	
,2-Dibromoethane	ND	5.0	10		Tert-Butyl Alcohol (TBA)	ND	100	10	
,2-Dichloroethane	ND	5.0	10		Diisopropyl Ether (DIPE)	ND	5.0	10	
thylbenzene	6.8	5.0	10		Ethyl-t-Butyl Ether (ETBE)	ND	5.0	10	
oluene	ND	5.0	10		Tert-Amyl-Methyl Ether (TAME)	ND	5.0	10	
ylenes (total)	ND	5.0	10		Ethanol	ND	3000	10	
<u>surrogates:</u>	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits	10	Qual
2-Dichloroethane-d4	119	80-128			Dibromofluoromethane	1	80-127		LG,AY
oluene-d8	103	80-120			1,4-Bromofluorobenzene	102	68-120		LO,AT
MW-11B			09-06-2	2042-2-A	06/18/09 Aqueous GC/MS 14:20	S BB 06/26/09	06/26 17:0		090626L01
<u>'arameter</u>	Result	RL	<u>DF</u>	Qual	<u>Parameter</u>	Result	RL	DF	Qual
enzene	ND	5.0	10		Methyl-t-Butyl Ether (MTBE)	200	5.0	10	
2-Dibromoethane	ND	5.0	10		Tert-Butyl Alcohol (TBA)	ND	100	10	
2-Dichloroethane	ND	5.0	10		Diisopropyl Ether (DIPE)	ND	5.0	10	
thylbenzene	ND	5.0	10		Ethyl-t-Butyl Ether (ETBE)	ND	5.0	10	
oluene	ND	5.0	10		Tert-Amyl-Methyl Ether (TAME)	ND	5.0	10	
ylenes (total)	ND	5.0	10		Ethanol	ND	3000	10	
urrogales:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits	10	Qual
2-Dichloroethane-d4	113	80-128			Dibromofluoromethane	103	80-127		
oluene-d8	98	80-120			1,4-Bromofluorobenzene	100	68-120		
MW-12A			09-06-2	042-3-A	06/18/09 Aqueous GC/MS 13:25		06/26/ 18:3		090626L01
arameter	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	Result	<u>RL</u>	DF	Qual
enzene	ND	1.0	2		Methyl-t-Butyl Ether (MTBE)	40	1.0	2	
2-Dibromoethane	ND	1.0	2		Tert-Butyl Aicohol (TBA)	ND	20	2	
2-Dichloroethane	ND	1.0	2		Diisopropyl Ether (DIPE)	ND	1.0	2	
hylbenzene	ND	1.0	2		Ethyl-t-Butyl Ether (ETBE)	ND	1.0	2	
•	ND	1.0	2		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	2	
pluene					Ethanol	ND	000		
oluene	ND	1.0	2			ND	600	2	
oluene vlenes (total)		<u>Control</u>	2	<u>Qual</u>	Surrogates:	ND REC (%)	Control	2	Qual
oluene vlenes (total) urrogates:	ND REC (%)	Control Limits	2	<u>Qual</u>	Surrogates:	REC (%)		2	<u>Qual</u>
oluene vlenes (total) urrogates: 2-Dichloroethane-d4 oluene-d8	ND	<u>Control</u>	2	<u>Qual</u>		REC (%)	<u>Control</u>	2	Qual



DF - Dilution Factor ,

Qual - Qualifiers



Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550

Date Received: Work Order No: Preparation: Method: Units:

06/24/09 09-06-2042 **EPA 5030B EPA 8260B**

ug/L

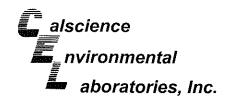
Cameron Park, CA 95682-8861	

Lab Sample Number Date/Time Collected Matrix Instrument Prepared Analyzed Collected Collected Matrix Instrument Prepared Collected Col	Project: ADCO 2107									_	
Number Number Number Collected Matrix Instrument Prepared Analyzed OC Batch	Project: ARCO 2107	-								Pag	ge 2 of 3
Parameter Result RL DE Qual Parameter Result RL DE	Client Sample Number			L		Administration 1.	nstrument				QC Batch IE
Benzene	MW-12B			09-06	-2042-4-A		C/MS BB	06/26/09			090626L01
2-Dibromoethane	<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	<u>Qual</u>	Parameter		Result	<u>RL</u>	DF	Qual
2-Dibromoethane	Benzene	ND	2.5	5		Methyl-t-Butyl Ether (MTBE)		380	5.0	10	1
Control Cont	1,2-Dibromoethane	ND	2.5	5		Tert-Butyl Alcohol (TBA)		ND	50		
coluene ND 2.5 5 Tert-Amyl-Methyl Ether (TAME) ND 2.5 5 ylenes (Iotal) ND 2.5 5 Ethanol ND 1500 5 ylenes (Iotal) ND 2.5 5 Ethanol ND 1500 5 urrogates: REC (%) Control Umits Limits Limits Limits 2-Dichloroethane-d4 118 80-128 Dibromofluoromethane 104 80-127 doluene-d8 100 80-120 1,4-Bromofluorobenzene 105 68-120 MW-13A 20-10 80-120 1,4-Bromofluorobenzene 105 68-120 90626001 MW-13A Result RL DE Qual Parameter Result RL DF Qual arameter Result RL DE Qual Parameter Result RL DF Qual arameter ND 0.50 1 Methyl-t-Butyl Ether (MTBE) 23 0.50 1 <td>1,2-Dichloroethane</td> <td></td> <td>2.5</td> <td>5</td> <td></td> <td>Diisopropyl Ether (DIPE)</td> <td></td> <td>ND</td> <td>2.5</td> <td>5</td> <td></td>	1,2-Dichloroethane		2.5	5		Diisopropyl Ether (DIPE)		ND	2.5	5	
Vennes (total) ND 2.5 5 Ethanol ND 1500 5	Ethylbenzene	ND	2.5	5		Ethyl-t-Butyl Ether (ETBE)		ND	2.5		
	Toluene	ND	2.5	5		Tert-Amyl-Methyl Ether (TAM	1E)	ND	2.5		
2-Dichloroethane-d4 118 80-128 Dibromofluoromethane 104 80-127 Dibromofluoromethane 105 80-127 Dibromofluoromethane 106 80-127 Dibromofluoromethane 107 80-128 Dibromofluoromethane 108 80-128 Dibromofluoromethane 108 80-128 Dibromofluoromethane 108 80-128 Dibromofluoromethane 107 80-128 Dibromofluoromethane 108 108 Dibromofluoromethane 108 108 Dibromofluoromethane Dibro	Kylenes (total)	ND	2.5	5			,	ND	1500		
Dibromofluoromethane	Surrogates:	<u>REC (%)</u>			<u>Qual</u>	Surrogates:	E	REC (%)		J	Qual
MW-13A 100 80-120 1,4-Bromofluorobenzene 105 68-120 14:24 MW-13A 13:35 Aqueous GC/MS BB 06/26/09 06/26/09 030626L01 14:24 MR-13:35 Aqueous GC/MS BB 06/26/09 06/26/09 04/26/05 O4/26/05	1,2-Dichloroethane-d4	118	80-128			Dibromofluoromethane		104			
MW-13A	Foluene-d8	100	80-120			1,4-Bromofluorobenzene					
enzene ND 0.50 1 Methyl-t-Butyl Ether (MTBE) 23 0.50 1 2068				09-06	-2042-5-A		C/MS BB	06/26/09			090626L01
enzene ND 0.50 1 Methyl-t-Butyl Ether (MTBE) 23 0.50 1 2-Dibromoethane ND 0.50 1 Tert-Butyl Alcohol (TBA) ND 10 1 1 2-Dibromoethane ND 0.50 1 Diisopropyl Ether (DIPE) ND 0.50 1 Diisopropyl Ether (DIPE) ND 0.50 1 Diisopropyl Ether (ETBE) ND 0.50 1 Diisopropyl Ether (ETBE) ND 0.50 1 Diisopropyl Ether (ETBE) ND 0.50 1 Dibromoethane ND 0.50 1 D	<u>Parameter</u>	Result	RL	DF	Qual	<u>Parameter</u>		Result	RL	DF	Qual
2-Dibromoethane	Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)		23	-		
2-Dichloroethane	,2-Dibromoethane	ND	0.50								
thylbenzene	,2-Dichloroethane	ND		1		, ,					
ND 0.50 1 Tert-Amyl-Methyl Ether (TAME) Tert-Amyl-Me	Ethylbenzene	ND								1	
ND	oluene	ND					E)			1	
REC (%) Control Limits Dibromofluoromethane 102 80-127 Dibromofluoromethane 102 80-127 Dibromofluoromethane 102 80-127 Dibromofluoromethane 102 80-127 Dibromofluoromethane 103 80-127 Dibromofluoromethane 103 80-127 Dibromofluoromethane 104 80-127 Dibromofluoromethane 105 80-127 Dibromofluoromethane 106 80-127 Dibromofluoromethane 106 80-127 Dibromofluoromethane 106 80-127 Dibromofluoromethane 106 80-127 Dibromofluoromethane 107 80-127 Dibromofluoromethane 108 80-127 Dibromofluoromethane 108 REC (%) Control Qual Control Qual Dibromofluoromethane 108 REC (%) REC ((ylenes (total)	ND								1	
2-Dichloroethane-d4	Surrogates:	REC (%)	<u>Control</u>	,	Qual						Qual
MW-13B 102 80-120 1,4-Bromofluorobenzene 101 68-120 68-120 MW-13B 09-06-2042-6-A 06/18/09 Aqueous GC/MS BB 06/26/09 06/26/09 090626L01 12:55 14:56	.2-Dichloroethane-d4	110				Dibromofluoromethane		102			
MW-13B	oluene-d8	102									
ND 0.50 1 Methyl-t-Butyl Ether (MTBE) 12 0.50 1 1 2 2 2 2 2 2 2 2	MW-13B			09-06-	2042-6-A	06/18/09 Aqueous G			06/26		090626L01
2-Dibromoethane	Parameter		<u>RL</u>	DF	Qual			Result	<u>RL</u>	DF	<u>Qual</u>
2-Dichloroethane	enzene							12	0.50	1	
hylbenzere ND 0.50 1 Ethyl-t-Butyl Ether (ETBE) ND 0.50 1 Diuene ND 0.50 1 Tert-Amyl-Methyl Ether (TAME) ND 0.50 1 Dirrogates: REC (%) Control Limits 2-Dichloroethane-d4 113 80-128 Dibromofluoromethane 102 80-127	,2-Dibromoethane		0.50	1		Tert-Butyl Alcohol (TBA)		ND	10	1	
ND 0.50 1 Tert-Amyl-Methyl Ether (TAME) ND 0.50 1	,	ND	0.50	1		Diisopropyl Ether (DIPE)		ND	0.50	1	
rienes (total) ND 0.50 1 Ethanol ND 300 1 orrogates: REC (%) Control Qual Surrogates: REC (%) Control Qual Limits 2-Dichloroethane-d4 113 80-128 Dibromofluoromethane 102 80-127	thylbenzene		0.50	1		Ethyl-t-Butyl Ether (ETBE)		ND	0.50	1	
urrogates: REC (%) Control Limits Qual Surrogates: REC (%) Control Qual Limits Qual Surrogates: REC (%) Control Qual Limits Qual Surrogates: Limits Limits </td <td>oluene</td> <td></td> <td>0.50</td> <td>1</td> <td></td> <td>Tert-Amyl-Methyl Ether (TAMI</td> <td>E)</td> <td>ND</td> <td>0.50</td> <td>1</td> <td></td>	oluene		0.50	1		Tert-Amyl-Methyl Ether (TAMI	E)	ND	0.50	1	
urrogates: REC (%) Control Limits Qual Surrogates: REC (%) Control Qual Limits Qual Limits 2-Dichloroethane-d4 113 80-128 Dibromofluoromethane 102 80-127	yienes (totai)	ND	0.50	1		Ethanol	-	ND	300	1	
2-Dichloroethane-d4 113 80-128 Dibromofluoromethane 102 80-127	urrogates:	REC (%)			Qual	Surrogates:	R		Control	•	Qual
. 10	,2-Dìchloroethane-d4	113	80-128			Dibromofluoromethane		102			
	oluene-d8	99	80-120			1,4-Bromofluorobenzene					



DF - Dílution Factor ,

Qual - Qualifiers



Stratus Environmental, inc.

3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Date Received:

06/24/09 09-06-2042

Work Order No: Preparation: Method:

EPA 5030B EPA 8260B

Units:

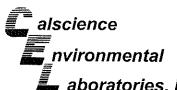
PA 8260B: ug/L

Project: ARCO 2107

Page 3 of 3

Client Sample Number				ib Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/T I Analyz		QC Batch ID
Method Blank			099-12	-703-958	N/A	Aqueous	GC/MS BB	06/26/09	06/26 18:0		090626L01
<u>Parameter</u>	Result	<u>RL</u>	<u>DF</u>	Qual	<u>Parameter</u>			Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl	Ether (MTB	E)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alco	ohol (TBA)	•	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Etl			ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-I-Butyl E	ther (ETBE)		ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Met	hyl Ether (T.	AME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol		·	ND	300	1	
Surrogates:	REC (%)	<u>Control</u>		Qual	Surrogates:			REC (%)	Control		Qual
		<u>Limits</u>							Limits		
1,2-Dichloroethane-d4	110	80-128			Dibromofluoro			104	80-127		
Toluene-d8	100	80-120			1,4-Bromofluo	robenzene		101	68-120		
Method Blank			099-12	703-959	N/A	Aqueous	GC/MS BB	06/27/09	06/27/ 13:5		090627L01
Parameter	<u>Result</u>	RL	<u>DF</u>	Qual	Parameter			Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl	Ether (MTBI	Ξ)	ND	0.50	1	
1,2-Dibromoethane	ND	0.50	1		Tert-Butyl Alco		-,	ND	10	1	
1,2-Dichloroethane	ND	0.50	1		Diisopropyl Eth	. ,		ND	0.50	1	
Ethylbenzene	ND	0.50	1		Ethyl-t-Butyl Et			ND	0.50	1	
Toluene	ND	0.50	1		Tert-Amyl-Metl	,	AME)	ND	0.50	1	
Xylenes (total)	ND	0.50	1		Ethanol	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,		300	1	
Surrogates:	REC (%)	Control Limits	·	Qual	Surrogates:		<u> </u>	REC (%)	Control Limits	•	Qual
1.2-Dichloroethane-d4	114	80-128			Dibromofluoror	nethane		103	80-127		
Toluene-d8	99	80-120			1,4-Bromofluor				68-120		





Quality Control - Spike/Spike Duplicate

aboratories, Inc.

Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Date Received: Work Order No: Preparation: Method:

06/24/09 09-06-2042 **EPA 5030B** EPA 8015B (M)

Project ARCO 2107

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-06-1658-11	Aqueous	GC 4	06/29/09		06/29/09	090629S01
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	<u>RPD</u>	RPD CL	Qualifiers
Gasoline Range Organics (C6-C12)	107	93	38-134	11	0-25	

alscience nvironmental aboratories, Inc.

Quality Control - Spike/Spike Duplicate



Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861 Date Received: Work Order No: Preparation: Method: 06/24/09 09-06-2042 EPA 5030B EPA 8260B

Project ARCO 2107

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
MW-13A	Aqueou	is GC/MS BB	06/26/09		06/26/09	090626S01
Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	91	98	76-124	7	0-20	
Carbon Tetrachloride	100	106	74-134	6	0-20	
Chlorobenzene	89	96	80-120	8	0-20	
1,2-Dibromoethane	89	93	80-120	5	0-20	
1,2-Dichlorobenzene	92	102	80-120	9	0-20	
1,1-Dichloroethene	94	98	73-127	3	0-20	
Ethylbenzene	90	96	78-126	7	0-20	
Toluene	90	98	80-120	9	0-20	
Trichloroethene	90	94	77-120	5	0-20	
Vinyl Chloride	90	102	72-126	12	0-20	
Methyl-t-Butyl Ether (MTBE)	96	109	67-121	4	0-49	
Tert-Butyl Alcohol (TBA)	91	95	36-162	4	0-30	
Diisopropyl Ether (DIPE)	93	101	60-138	8	0-45	
Ethyl-t-Butyl Ether (ETBE)	90	97	69-123	7	0-30	
Tert-Amyl-Methyl Ether (TAME)	88	95	65-120	7	0-20	

104

10

30-180

0-72



Ethanol



Quality Control - Spike/Spike Duplicate

Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

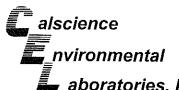
Date Received: Work Order No: Preparation: Method: 06/24/09 09-06-2042 EPA 5030B EPA 8260B

Project ARCO 2107

Quality Control Sample ID	Matrix	Instrument	Date Prepared		Date Analyzed	MS/MSD Batch Number
09-06-2036-1	Aqueous	GC/MS BB	06/27/09		06/27/09	090627801
<u>Parameter</u>	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	92	93	76-124	1	0-20	
Carbon Tetrachloríde	105	108	74-134	2	0-20	
Chlorobenzene	90	91	80-120	1	0-20	

	****				<u> </u>	<u> </u>
Benzene	92	93	76-124	1	0-20	
Carbon Tetrachloride	105	108	74-134	2	0-20	
Chlorobenzene	90	91	80-120	1	0-20	
1,2-Dibromoethane	91	90	80-120	1	0-20	
1,2-Dichlorobenzene	94	94	80-120	0	0-20	
1,1-Dichloroethene	98	101	73-127	3	0-20	
Ethylbenzene	94	94	78-126	0	0-20	
Toluene	93	92	80-120	1	0-20	
Trichloroethene	92	93	77-120	1	0-20	
Vinyl Chloride	94	92	72-126	2	0-20	
Methyl-t-Butyl Ether (MTBE)	92	94	67-121	2	0-49	
Tert-Butyl Alcohol (TBA)	90	94	36-162	4	0-30	
Diisopropyl Ether (DIPE)	95	97	60-138	2	0-45	
Ethyl-t-Butyl Ether (ETBE)	93	96	69-123	3	0-30	
Tert-Amyl-Methyl Ether (TAME)	91	91	65-120	0	0-20	
Ethanol	94	99	30-180	6	0-72	

CL - Control Limit



Quality Control - LCS/LCS Duplicate

aboratories, Inc.

Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861

Date Received: Work Order No: Preparation: Method: N/A 09-06-2042 EPA 5030B EPA 8015B (M)

Project: ARCO 2107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Bate Number	ch
099-12-695-589	Aqueous	GC 4	06/29/09	06/29/09	090629B01	١.,
<u>Parameter</u>	LCS %R	EC LCSD	<u>%REC</u>	EC CL RF	<u>PD</u> <u>RPD CL</u>	Qualifiers
Gasoline Range Organics (C6-C12)	105	100	71	3-120 4	0-20	

Muhan_



Quality Control - LCS/LCS Duplicate



Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861 Date Received: Work Order No: Preparation: Method: N/A 09-06-2042 EPA 5030B EPA 8260B

Project: ARCO 2107

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed		LCS/LCSD Ba	atch
099-12-703-958	Aqueous	GC/MS BB	06/26/09	06/26	/09	090626L01	
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	96	95	80-120	73-127	1	0-20	
Carbon Tetrachloride	103	103	74-134	64-144	0	0-20	
Chlorobenzene	93	92	80-120	73-127	2	0-20	
1,2-Dibromoethane	94	92	79-121	72-128	2	0-20	
1,2-Dichlorobenzene	98	96	80-120	73-127	2	0-20	
1,1-Dichloroethene	102	100	78-126	70-134	2	0-28	
Ethylbenzene	96	95	80-120	73-127	1	0-20	
Toluene	96	94	80-120	73-127	2	0-20	
Trichloroethene	98	99	79-127	71-135	0	0-20	
Vinyl Chloride	95	96	72-132	62-142	1	0-20	
Methyl-t-Butyl Ether (MTBE)	98	96	69-123	60-132	2	0-20	
Tert-Butyl Alcohol (TBA)	89	87	63-123	53-133	1	0-20	
Diisopropyl Ether (DIPE)	100	100	59-137	46-150	1	0-37	
Ethyl-t-Butyl Ether (ETBE)	98	96	69-123	60-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	97	92	70-120	62-128	5	0-20	
Ethanol	99	106	28-160	6-182	7	0-57	

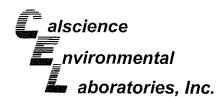
Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass





Quality Control - LCS/LCS Duplicate

Stratus Environmental, inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682-8861 Date Received: Work Order No: Preparation: Method:

N/A 09-06-2042 EPA 5030B EPA 8260B

Project: ARCO 2107

Quality Control Sample ID	Matrix	instrument	Date Prepared	Date Analyzed		LCS/LCSD B Number	atch.
099-12-703-959	Aqueous	GC/MS BB	06/27/09	06/27/	09	090627L0	1 : : :
Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	93	93	80-120	73-127	0	0-20	
Carbon Tetrachloride	101	103	74-134	64-144	2	0-20	
Chlorobenzene	93	92	80-120	73-127	1	0-20	
1,2-Dibromoethane	92	92	79-121	72-128	1	0-20	
1,2-Dichlorobenzene	96	96	80-120	73-127	0	0-20	
1,1-Dichloroethene	100	100	78-126	70-134	0	0-28	
Ethylbenzene	97	96	80-120	73-127	1	0-20	
Toluene	93	92	80-120	73-127	1	0-20	
Trichloroethene	96	95	79-127	71-135	1	0-20	
Vînyl Chloride	103	100	72-132	62-142	3	0-20	
Methyl-t-Butyl Ether (MTBE)	97	94	69-123	60-132	4	0-20	
Tert-Butyl Alcohol (TBA)	86	88	63-123	53-133	2	0-20	
Diisopropyl Ether (DIPE)	99	97	59-137	46-150	2	0-37	
Ethyl-t-Butyl Ether (ETBE)	97	94	69-123	60-132	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	93	91	70-120	62-128	2	0-20	
Ethanol	84	97	28-160	6-182	13	0-57	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass





Glossary of Terms and Qualifiers



Work Order Number: 09-06-2042

Qualifier	<u>Definition</u>
AX	Sample too dilute to quantify surrogate.
BA	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.
вн	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.

Work Order Number: 09-06-2042

Qualifier	<u>Definition</u>
LR	LCS recovery below method control limits.
LW	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.
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.

Laboratory Management Program LaMP Chain of Custody Record

BP/ARC Project Name: ARCO 2107

Page	of
Rush TAT: Yes	No X

Coi Oabi	mpany Paffiliated company	BP/ARC Pro		AR	CO 2	107				·		2107	-					/dd/yy): umber:	- 4		-TAT		Rus	h TAT	: Yes	_ No ¥
Lab Name:	Cal Science			BP/	ARC (Facility A	ddros	· 6 ·	334/	1 Pork			-												<u> </u>	
Lab Address: 7440 Lincoln Way						BP/ARC Facility Address: 3310 Park Blvd. City, State, ZIP Code: Oakland, CA								Consultant/Contractor: Stratus Environmental												
Lab PM: Richard Villafania																Consultant/Contractor Project No: E2107-QM/O&M										
Lab Phone: 714-895-5494 / 714-895-7501 (fax)					Lead Regulatory Agency: California Global ID No.: TO(a) 9 1 3 1 3 0 (a)												Address: 3330 Cameron Park Dr., Cameron Park, CA 95682									
Lab Shipping Acent:				1041(1)400								Consultant/Contractor PM: Jay Johnson														
Lab Bottle Order No:				000112 0005										Phone: 530-676-6000 / 530-676-6005 (fax)												
Other Info:				1-																						
3P/ARC EBM	r Paul Supple			Stage: Appraise Activity: Movelor Matrix No. Containers / Preservative							<u>د</u>				Invoice To: BP/ARC											
EBM Phone:	925-275-3506				1111		- '	J. C.	ntan	iers i	Pres	ervat	ive	<u> </u>	Tüz	1 \\Z.	Requi	ested Ar	nalyse	s		_	Rep		rpe & QC I	
EBM Email:	paul.supple@bp.com						ners							Σ	1	7	K	:							andard 🔀	
Lab No.	Sample Description	Date	Time	Soil / Solid	Water / Liquid	Air / Vapor	Total Number of Containers	Unpreserved	H₂SO₄	HNO3	HCI	Methanol		3RD by 8015	C 150	ত্	EHrano/					- 1:	Note: If sam Sample* in	Conple not	mments collected, indi	icate "No -strike out
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Sampler's Company: 5+tatus Shipment Method: 650 Ship Date: 6 22 09				- CAH								6/2/19 1500 precy p ca							७/24/69	10,300						
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THIS L	INE - LAB USE ONLY: Custoo	dy Seals In Place:	Yes / No	Te	emp E	Blank: Ye	s/No	,	Co	oler T	emp d	on Rec	eipt:	_		°F/C]	Trip Blar	ık: Va-	/ No	<u> </u>	NAC/A	ICD C	in Code	mittad: V-	
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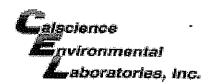


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WORK ORDER #: 09-06- 2 2 2 2

SAMPLE RECEIPT FORM Cooler / of /

CLIENT: STRATUS	DATE:	06 124	109								
TEMPERATURE: (Criteria: 0.0 °C - 6.0 °C, not frozen) Temperature											
CUSTODY SEALS INTACT: □ Cooler □ □ □ No (Not Intact) □ Not Present □ Sample □ □ No (Not Intact) □ Not Present		Initial: ˌ Initial: ˌ									
SAMPLE CONDITION: 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	N/A								
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished. Sampler's name indicated on COC	S Way on	□ ≰ □									
Correct containers and volume for analyses requested. Analyses received within holding time											
Proper preservation noted on COC or sample container. Unpreserved vials received for Volatiles analysis Volatile analysis container(s) free of headspace	. 🔯										
Tedlar bag(s) free of condensation CONTAINER TYPE:											
Solid: \BozCGJ \BozCGJ \BozCGJ \BozCGJ \BozCGJ \BozCGJ \BozCGJ \BozCGGJ \BozCGGJ \BozCGGJ \BozCGGG \BozCGGG \BozCGGGG \BozCGGGG \BozCGGGG \BozCGGGGG \BozCGGGGGGG \BozCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	□1AGB □ □1PB □ □1PB □	□1AGBna₂ □1 □500PB □500 □ □ □ /Labeled by: _	PBna								
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth Preservative: h: HCL n: HNO3 na ₂ :Na ₂ S ₂ O ₃ Na: NaOH p: H ₃ PO ₄ s: H ₂ SO ₄ znna: ZnAc ₂ +NaOH f:	uth) R	eviewed by:									



SAMPLE ANOMALY FORM

SAMPLE	S - CONTAIN	NERS & LA	BELS:			omm					
☐ Samp	les NOT REC	EIVED but I	isted on C	OC	I	(-7)	recei	used of 2	4	vials	W/HCL
☐ Samp	les received b	out NOT LIS	STED on C	ос		iu!	stead	of 2			/
☐ Holdi	ng time expire	ed – list sam	ple ID(s) a	nd test			*	7	 		
☐ Insuff	icient quantiti	ies for anal	ysis – list t	est	_				•		
	per container				_						
	eservative no				ify lab						
☐ Samp	le labels illegi	i ble – note t	est/contain	er type							
✓ Samp	le labels do n	ot match Co	OC – Note	in comments							,
	Sample ID										
	Date and/or Ti	me Collecte	ed								
	Project Inform	ation								···	
Ø#	of containers	S									
☐ Samp	le containers	compromis	ed – Note	in comments			,			1715-11	
	.eaking										
	Broken				_		· · · · · · · · · · · · · · · · · · ·				
□ V	Vithout Labels	5									
☐ Air sa	ımple contain	ers compro	mised – N	lote in comme	nts —						
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	eaking (trans		Calscienc	e Tedlar [®] Bac	 1*\						
	eaking (trans				,				-		
☐ Other:				 ,							
HEADSP	ACE – Conta	iners with	Bubble >	6mm or ¼ i	nch:						
Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Via Receive		Sample #	Conta ID(s		# of R CO ₂ o Rece	r DO
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Comments:				***						<u>.</u>	
*Transferred	at Client's requ	est.				Ini	tial / Da	te <u>ねし</u>	- 6	1/24/2	9

SOP T100_090 (03/13/09)

ATTACHMENT

FIELD PROCEDURES FOR GROUNDWATER SAMPLING

The sampling procedures for groundwater monitoring events are contained in this appendix.

Groundwater and Liquid-Phase Petroleum Hydrocarbon Depth Assessment

Prior to measuring the depth to liquid in the well, the well caps are removed and the liquid level allowed to stabilize. A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the groundwater depth in monitoring wells that do not contain LPH. Depth to groundwater or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

Subjective Analysis of Groundwater

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

Monitoring Well Sampling

In many cases, determining whether to purge or not to purge wells prior to sample collection is made in the field and is often based on depth to water relative to the screen interval of the well. Site-specific field data sheets present details associated with the purge method and equipment used.

Monitoring wells, when purged, use a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water has been removed. Field measuring equipment is calibrated and maintained according to the manufacturer's instructions. If three well volumes cannot be removed in one half hour's time the well is allowed to recharge to 80% of original level. After recharging, a groundwater sample is then collected from each of the wells using disposable bailers.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These

bottles will be filled completely to prevent air accumulation in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

Groundwater Sample Labeling and Preservation

Samples are collected in appropriate containers supplied by the laboratory. All required chemical preservation is added to the bottles prior to delivery to Stratus. Sample label information includes a unique sample identification number, job identification number, date, and time. After labeling, all groundwater samples are placed in a Ziploc® type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip and temperature blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

Equipment Cleaning

All reusable sampling equipments are cleaned using phosphate-free detergents and rinsed with de-ionized water.

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION RECEIPTS

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

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

Submittal Type: GEO_WELL

Submittal Title: 2Q09 GEO_WELL 2107

Facility Global ID: T06019734306
Facility Name: ARCO #2107
File Name: GEO_WELL.zip

Organization Name: Broadbent & Associates, Inc.

Username: BROADBENT-C IP Address: 67.118.40.90

<u>Submittal Date/Time:</u> 7/17/2009 2:18:11 PM

Confirmation Number: 3321084439

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1 of 1 7/17/2009 2:20 PM

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 - Quarterly

Submittal Title: 2Q09 GW Monitoring

 Facility Global ID:
 T06019734306

 Facility Name:
 ARCO #2107

 File Name:
 09062042.zip

Organization Name: Broadbent & Associates, Inc.

Username: BROADBENT-C IP Address: 67.118.40.90

<u>Submittal Date/Time:</u> 7/17/2009 2:19:44 PM

Confirmation Number: 9684175789

VIEW QC REPORT

VIEW DETECTIONS REPORT

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1 of 1 7/17/2009 2:20 PM