ARCADIS
Infrastructure, environment, facilities

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ENVIRONMENTAL

Re: First Quarter 2010 Ground-Water Monitoring Report
Former BP Station #11266
1541 Park Street
Alameda, California
ACEH Case #RO0000318

"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."

Date:
04/30/2010

Submitted by:

ARCADIS U.S., Inc.

Hollis E. Phillips, PG
Project Manager

Contact:
Hollis E. Phillips

Phone:
415.374.2744 ext 13

Email:
Hollis.phillips@arcadis-us.com

Our ref:
GP09BPNA.C001

First Quarter 2010 Ground-Water Monitoring Report
Former BP Service Station #11266
1541 Park Street, Alameda, California
ACEH Case #RO0000318

Prepared for

Ms. Hollis Phillips, PG
Senior Geologist
ARCADIS-US, Inc.
100 Montgomery Street, Ste. 300
San Francisco, California 94104

On behalf of

Atlantic Richfield Company
PO Box 1257
San Ramon, California 94583

Prepared by

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

1324 Mangrove Avenue, Suite 212
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30 April 2010

Project No. 09-88-658

Broadbent & Associates, Inc.
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BROADBENT & ASSOCIATES, INC
ENVIRONMENTAL, WATER RESOURCES & ENGINEERING

30 April 2010

Project No. 09-88-658

ARCADIS-US, Inc.
100 Montgomery Street, Ste. 300
San Francisco, California 94104

Attn.: Ms. Hollis Phillips, PG

Re: First Quarter 2010 Ground-Water Monitoring Report, Former BP Station #11266
1541 Park Street, Alameda, California; ACEH Case #RO0000318.

Dear Ms. Phillips:

Provided herein is the *First Quarter 2010 Ground-Water Monitoring Report* for Former BP Service Station #11266 (herein referred to as Station #11266) located at 1541 Park Street, Alameda, California. This report presents the results of reassessment ground-water monitoring conducted at the Site during the First Quarter of 2010.

Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Jason Duda
Project Scientist

Thomas A. Venus, P.E.
Senior Engineer

Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health (Submitted via ACEH FTP site)
Electronic copy uploaded to GeoTracker

STATION #11266 GROUND-WATER MONITORING REPORT

Facility: #11266 Address:	1541 Park Street, Alameda, California
ARCADIS Project Manager:	Ms. Hollis Phillips, PG
Consulting Co./Contact Persons:	Broadbent & Associates, Inc.(BAI)/Jason Duda & Tom Venus (530) 566-1400
Consultant Project No.:	09-88-658
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH) ACEH Case #RO0000624

WORK PERFORMED THIS QUARTER (First Quarter 2010):

1. Prepared and submitted the *Fourth Quarter 2009 Status Report* (BAI, 01/19/2010).
2. Conducted ground-water monitoring/sampling for First Quarter 2010.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2010):

1. Prepared and submitted this First Quarter 2010 Ground-Water Monitoring Report (contained herein).
2. Prepare and submit a Soil and Ground-Water Investigation Work Plan to conduct source area characterization.
3. No field work is currently anticipated at Station #11266 during the Second Quarter of 2010.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	**Reassessment**
Frequency of ground-water sampling:	**One time: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and RW-1**
Frequency of ground-water monitoring:	**One time: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and RW-1**
Is free product (FP) present on-site:	**No**
Current remediation techniques:	**NA**
Depth to ground water (below TOC):	**6.84 ft (MW-5) to 8.82 ft (MW-3)**
General ground-water flow direction:	**Southeast**
Approximate hydraulic gradient:	**0.01 ft/ft**

DISCUSSION:

First Quarter 2010 ground-water monitoring and sampling was conducted at the Site on 18 March 2010 by BAI. Water levels were gauged in each of the seven wells (MW-1 through MW-6 and RW-1) associated with the Site. No difficulties or irregularities were encountered during gauging activities. Measured depths to ground water ranged from 6.84 ft in MW-5 to 8.82 ft in MW-3. Calculated water level elevations ranged from 21.88 ft above datum at MW-5 to 20.49 ft at MW-2. Calculated water level elevations yielded a potentiometric ground-water flow direction and gradient of 0.01 ft/ft to the southeast. 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 presented as Drawing 1. Potentiometric ground-water elevation contours are presented in Drawing 2.

Ground-water samples were collected from wells MW-1 through MW-6 and RW-1 on 18 March 2010. No irregularities were reported during sampling activities. The samples were submitted under chain-of-custody protocol to TestAmerica Laboratories, Inc. (Pleasanton, California) for analysis of

Gasoline Range Organics (GRO, C6-12), Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX), Methyl Tert-Butyl Ether (MTBE), Ethyl Tert-Butyl Ether (ETBE), Di-Isopropyl Ether (DIPE), Tert-Amyl Methyl Ether (TAME), Tert-Butyl Alcohol (TBA), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), and Ethanol by EPA Method 8260B, Halogenated Volatile Organic Compounds (HVOCs) by EPA Method 8260B, and Total Lead by EPA Method 200.7. No significant irregularities were reported during 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.

Gasoline Range Organics (GRO) were detected above the laboratory reporting limits in three of the seven wells sampled at concentrations up to 2,100 micrograms per liter (µg/L) in well MW-1. Benzene was detected above the laboratory reporting limit in well RW-1 at a concentration of 3.9 µg/L. Toluene was detected above the laboratory reporting limit in wells RW-1 and MW-1 at concentrations of 82 µg/L and 5.6 µg/L, respectively. Ethylbenzene was detected above the laboratory reporting limit in RW-1 and MW-1 at concentrations of 59 µg/L and 24 µg/L, respectively. Total Xylenes were detected above the laboratory reporting limit in wells RW-1 and MW-1 at concentrations of 280 µg/L and 170 µg/L, respectively. MTBE was detected above the laboratory reporting limit in well MW-2 at a concentration of 6.3 µg/L. TBA was detected in well MW-5 at a concentration of 4.2 µg/L. Lead was detected in wells MW-1 and RW-1 at concentrations of 25 µg/L and 14 µg/L, respectively. Chlorobenzene and 1,2-Dichlorobenzene were detected in well MW-3 at concentrations of 1.1 µg/L and 2.8 µg/L, respectively. The remaining analytes were not detected above their respective laboratory reporting limits in the seven wells sampled this quarter. Laboratory analytical results are summarized in Table 1 and Table 2. Analytical results for GRO, Benzene, and MTBE are reported adjacent to their respective well on Drawing 2. Copies of the GeoTracker Upload Confirmations for the data in this report are provided as Appendix B.

CONCLUSIONS AND RECOMMENDATIONS:

Ground-water samples were collected and analyzed for HVOCs during this monitoring event as conducted during previous sampling events. Chlorobenzene and 1,2-Dichlorobenzene were detected in well MW-3 at concentrations of 1.1 µg/L and 2.8 µg/L, respectively. Ground-water monitoring in 1991 resulted in detections of Chlorobenzene at 2 µg/L in wells MW-1 and MW-6 and Tetrachloroethene (PCE) at 2 µg/L in well MW-6 (EMCON Associates, 9/25/1991. *Third Quarter 1991 ground-water monitoring program results, BP Oil Company service station 11266, Alameda, California*). The current concentrations of these two constituents are below the Environmental Screening Levels (ESLs), 25 µg/L for Chlorobenzene and 120 µg/L for PCE, established by the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) for ground-water that is not a current or potential drinking water resource. The concentrations have not increased since 1991, indicating that a continuing source is not present. Based on these findings, BAI recommends that HVOCs not be analyzed for during future ground-water monitoring events.

A Work Plan including details for further source area characterization, as requested by ACEH in their 3 September 2009 letter, will be prepared and submitted during Second Quarter 2010. No environmental work is currently scheduled to occur at the Site during Second Quarter 2010.

CLOSURE:

The findings presented in this report are based upon: observations of BAI field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Test America (Pleasanton, 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, Former BP Service Station #11266, 1541 Park Street, Alameda, California

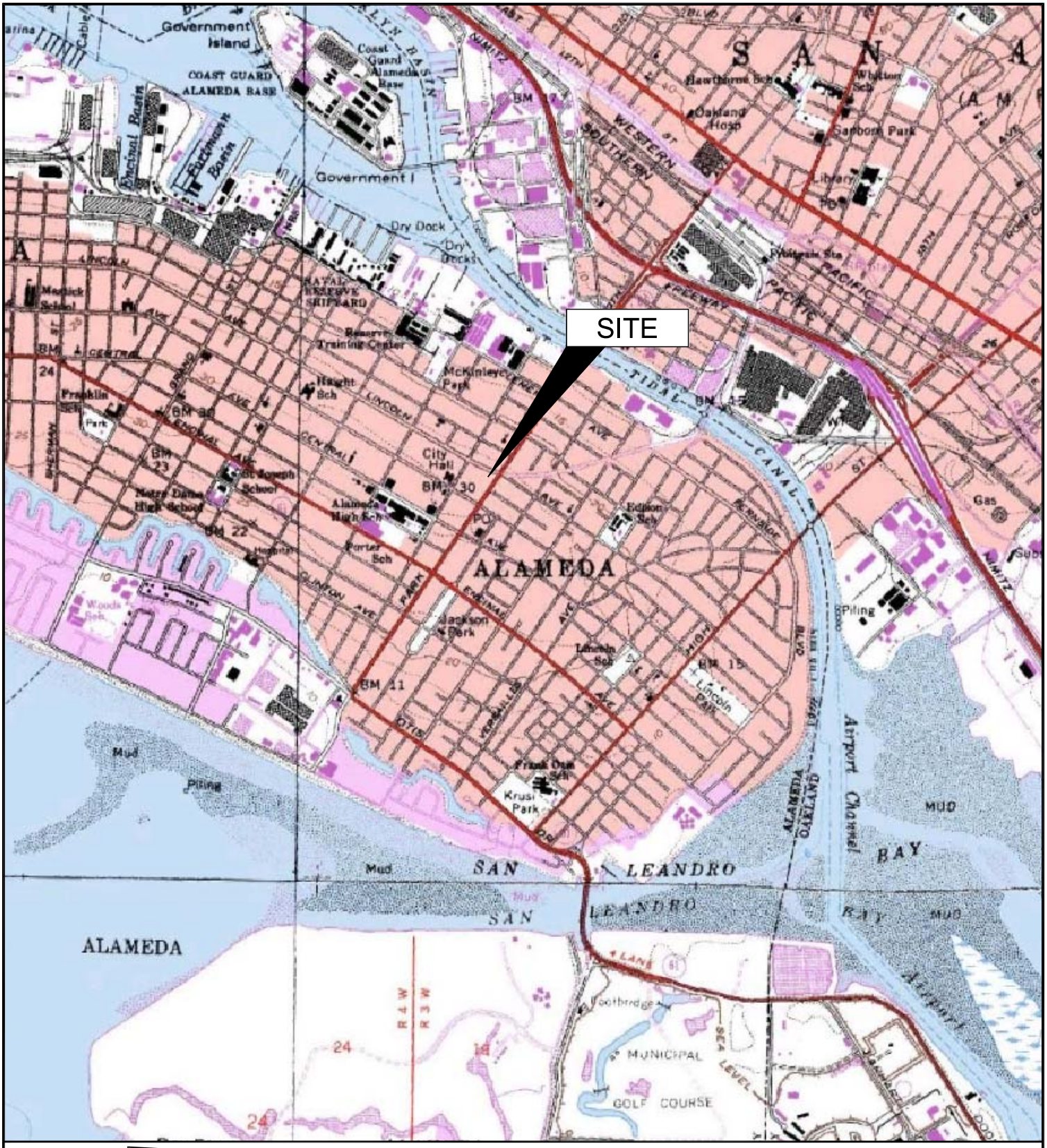
Drawing 2. Ground-Water Elevation Contours and Analytical Summary Map, 18 March 2010, Former BP Service Station #11266, 1541 Park Street, Alameda, California

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #11266, 1541 Park Street, Alameda, California

Table 2. Summary of Fuel Additives Analytical Data, Station #11266, 1541 Park Street, Alameda, California

Appendix A. BAI Ground-Water Sampling Data (Includes Field Data Sheets, Non-Hazardous Waste Data Form, Laboratory Report, Chain of Custody Documentation, and Field Procedures)

Appendix B. GeoTracker Upload Confirmations

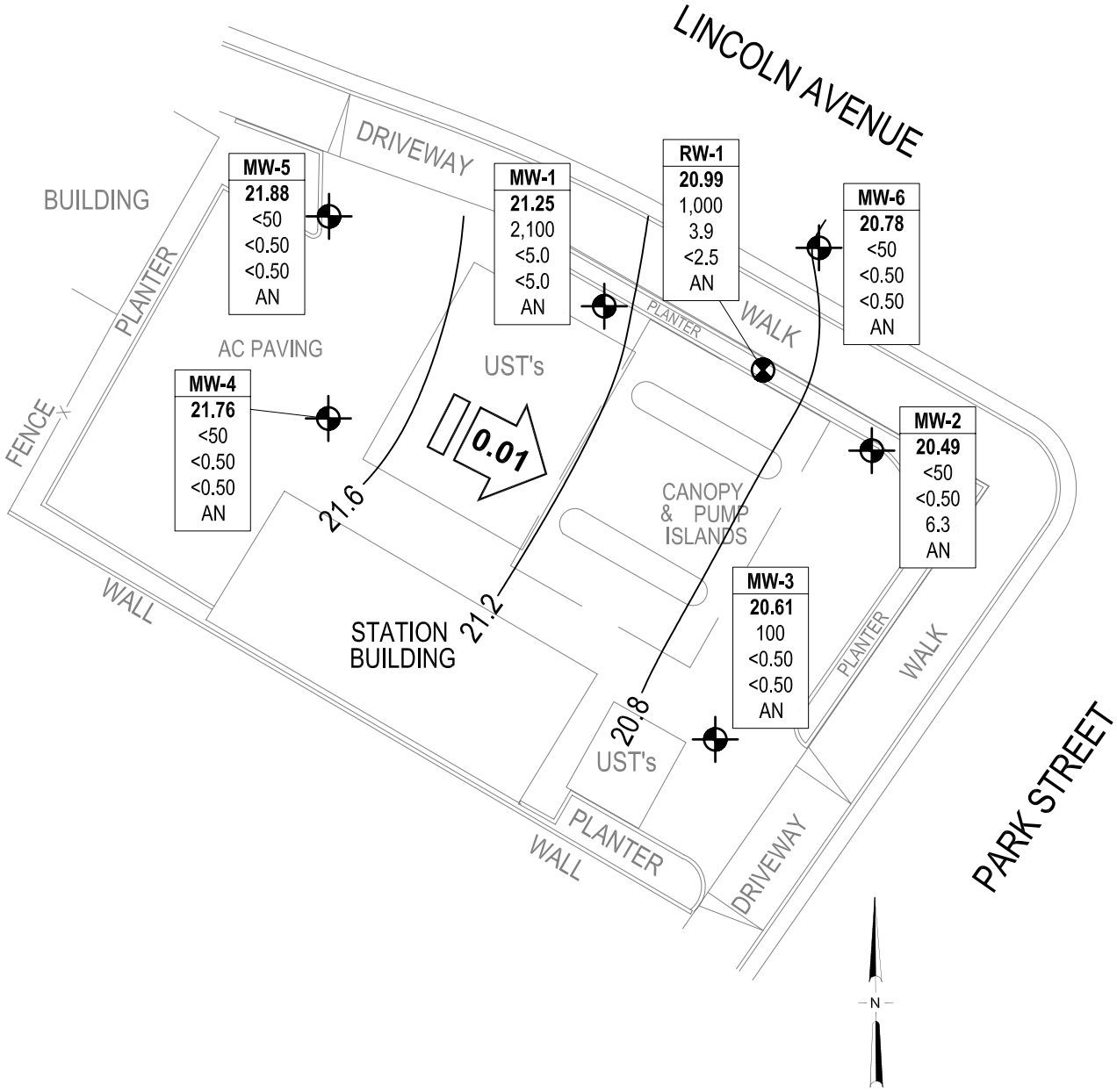


BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, CA 95926
Project No.: 09-88-658 Date: 4/19/2010

Former BP Service Station #11266
1541 Park Street
Alameda, California

Site Location Map

Drawing
1



LEGEND

- Monitoring well
- Recovery well
- Soil Boring
- Well designation
- Ground-water elevation (ft above NAVD88)
- Concentration of GRO, Benzene and MTBE in ground water (µg/L)
- Sampling frequency

AN	As Needed
NS	Not sampled
NM	Not measured
<	Not detected at or above laboratory reporting limits
20.8	Ground-water elevation contour (ft/NAVD88)
0.01	Approximate ground-water flow direction and gradient (ft/ft)
*	Not used in contouring

0 30 60

SCALE (ft)

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926

Project No.: 09-88-658 Date: 4/19/2010

Former BP Service Station #11266
1541 Park Street
Alameda, California

Ground-Water Elevation Contour and Analytical Summary Map
March 18, 2010

Drawing
2

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

Station #11266, 1541 Park Street, Alameda, CA

Well and Sample Date	P/NP	TOC Elevation (feet msl)	Depth to Water (feet bgs)	Water Level Elevation (feet msl)	Concentrations in (µg/L)								DO (mg/L)	Comments
					GRO/ TPHg	DRO/ TPHd	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Lead		
MW-1														
8/24/2006	P	19.19	7.75	11.44	1,900	1,000	6.4	1.9	48	41	1.2	<100	--	
6/30/2009	P	28.62	8.85	19.77	11,000	--	5.1	29	310	1,200	<0.50	54.2	2.98	b, c
3/18/2010	**P**	**28.62**	**7.37**	**21.25**	**2,100**	**--**	**<5.0**	**5.6**	**24**	**170**	**<5.0**	**25**	**0.82**	**c**
MW-2														
8/24/2006	P	19.32	8.25	11.07	55	<47	0.57	<0.50	<0.50	1.0	47	<100	--	
6/30/2009	P	28.76	9.85	18.91	<50	--	<0.50	<0.50	<0.50	<0.50	17	7.44	3.13	b
3/18/2010	**P**	**28.76**	**8.27**	**20.49**	**<50**	**--**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**6.3**	**<5.0**	**0.93**	
MW-3														
8/24/2006	P	19.99	9.61	10.38	96	130	<0.50	0.52	<0.50	<0.50	1.2	<100	--	
6/30/2009	P	29.43	10.03	19.40	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	2.40	b
3/18/2010	**P**	**29.43**	**8.82**	**20.61**	**100**	**--**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<5.0**	**0.78**	
MW-4														
8/24/2006	P	20.17	8.98	11.19	<50	<47	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	
6/30/2009	P	29.61	9.47	20.14	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	35.7	3.53	b
3/18/2010	**P**	**29.61**	**7.85**	**21.76**	**<50**	**--**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<5.0**	**1.30**	
MW-5														
8/24/2006	P	19.41	8.12	11.29	<50	<47	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	
6/30/2009	--	28.72	8.61	20.11	--	--	--	--	--	--	--	--	--	b, d
3/18/2010	**P**	**28.72**	**6.84**	**21.88**	**<50**	**--**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<5.0**	**1.30**	
MW-6														
8/24/2006	P	19.40	8.26	11.14	<50	<47	<0.50	<0.50	<0.50	<0.50	<0.50	<100	--	
6/30/2009	P	28.82	9.83	18.99	<50	--	<10	<10	<10	<10	<10	9.95	2.56	a, b
3/18/2010	**P**	**28.82**	**8.04**	**20.78**	**<50**	**--**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<5.0**	**0.94**	
RW-1														
6/30/2009	P	28.63	10.16	18.47	290	--	<0.50	15	9.6	51	<0.50	5.47	3.34	b
3/18/2010	**P**	**28.63**	**7.64**	**20.99**	**1,000**	**--**	**3.9**	**82**	**59**	**280**	**<2.5**	**14**	**1.17**	

NOTES:

a = Reporting limits raised due to high levels of non-target analytes.
b = Well surveyed 6/22/2009.
c = Sheen in well.
d = Insufficient water to sample.

GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008. The analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through the present.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

Table 2. Summary of Fuel Additives Analytical Data

Station #11266, 1541 Park Street, Alameda, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
8/24/2006	<600	<40	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	
6/30/2009	<50	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/18/2010	**<1,000**	**<40**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	
MW-2									
8/24/2006	<300	<20	47	<0.50	<0.50	2.2	<0.50	<0.50	
6/30/2009	<50	<10	17	<0.50	<0.50	1.0	<0.50	<0.50	
3/18/2010	**<100**	**<4.0**	**6.3**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-3									
8/24/2006	<300	<20	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	
6/30/2009	<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/18/2010	**<100**	**<4.0**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-4									
8/24/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/30/2009	<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/18/2010	**<100**	**<4.0**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-5									
8/24/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/18/2010	**<100**	**4.2**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
MW-6									
8/24/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/30/2009	<1,000	<200	<10	<10	<10	<10	<10	<10	
3/18/2010	**<100**	**<4.0**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	
RW-1									
6/30/2009	<50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/18/2010	**<500**	**<20**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

APPENDIX A

BAI GROUND-WATER SAMPLING DATA (INCLUDES FIELD DATA SHEETS, NON-HAZARDOUS WASTE DATA FORM, LABORATORY REPORT, CHAIN OF CUSTODY DOCUMENTATION, AND FIELD PROCEDURES)

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: MW-1
Project Name/Location: BP #1266 Project #: 09-88-658
Sampler's Name: T. Godley Date: 3/18/10
Purging Equipment: Bailer
Sampling Equipment: Disp

Casing Type: PVC
Casing Diameter: 2 inch
Total Well Depth: 25 feet
Depth to Water: - 7.37 feet
Water Column Thickness: = 17.63 feet
Unit Casing Volume*: x .16 gallon / foot
Casing Water Volume: = 2.8 gallons
Casing Volume: x 3 each
Estimated Purge Volume: = 8.4 gallons

***UNIT CASING VOLUMES**
2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.65 gal/lin ft.
6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1550	.82	-82		512.1	65.9	7.07	
2.5	1552	X	X	X	493.4	63.7	6.84	
5	1554	X .75	X	X	495.1	64.2	6.75	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 gallons
Depth to Water at Sample Collection: 8.18 feet
Sample Collection Time: 1600 Purged Dry? (Y / (N))

Comments: Sheen

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: MW-2
Project Name/Location: BP11266 Project #: 09-88-658
Sampler's Name: T-Gedda Date: 3/18/10
Purging Equipment: Bailer
Sampling Equipment: Bailer
Casing Type: PVC

Casing Diameter:	2	inch	
Total Well Depth:	25.00	feet	
Depth to Water:	- 8.27	feet	
Water Column Thickness:	= 16.73	feet	
Unit Casing Volume*:	x .16	gallon / foot	
Casing Water Volume:	= 2.6	gallons	
Casing Volume:	x 3	each	
Estimated Purge Volume:	= 8.0	gallons	

***UNIT CASING VOLUMES**
2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.65 gal/lin ft.
6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1612	.93	-61		519.8	67.4	6.94	
2	1615	X	X	X	549.6	66.8	6.80	
4	1617	X .99	X	X	573.8	66.4	6.80	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 4 gallons
Depth to Water at Sample Collection: 8.95 feet
Sample Collection Time: 1624
Purged Dry? (Y / N)

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: MW-3
Project Name/Location: BP 11266 Project #: 69-88-658
Sampler's Name: T. Gradley Date: 3/18/10
Purging Equipment: Bailer
Sampling Equipment: Bailer
Casing Type: PVC

Casing Diameter:		2	inch
Total Well Depth:		25	feet
Depth to Water:	-	8.82	feet
Water Column Thickness:	=	16.18	feet
Unit Casing Volume*:	x	.16	gallon / foot
Casing Water Volume:	=	2.5	gallons
Casing Volume:	x	3	each
Estimated Purge Volume:	=	7.5	gallons

***UNIT CASING VOLUMES**
2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.65 gal/lin ft.
6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1528	.78	17		643.5	72.1	7.00	
2.5	1533	X	X	X	698.0	~~68.2~~	6.85	
5	1535	1.05	X	X	682	68.1	6.84	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 gallons
Depth to Water at Sample Collection: 9.07 feet
Sample Collection Time: 1540 Purged Dry? (Y / (N))

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: MW-4
Project Name/Location: BP 11266 Project #: 09 88658
Sampler's Name: J. Gaddis Date: 3/18/10
Purging Equipment: Bailer
Sampling Equipment: Bailer
Casing Type: PVC

Casing Diameter:	2	inch	
Total Well Depth:	25.00	feet	
Depth to Water:	- 7.85	feet	
Water Column Thickness:	= 17.15	feet	
Unit Casing Volume*:	x .16	gallon / foot	
Casing Water Volume:	= 2.7	gallons	
Casing Volume:	x 3	each	
Estimated Purge Volume:	= 8.2	gallons	

***UNIT CASING VOLUMES**
2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.65 gal/lin ft.
6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1403	1.30	-13		644.3	66.4	7.04	
2.5	1405	X	X	X	642.6	65.3	6.84	
5	1407	2.39	X	X	646.4	65.1	6.79	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 gallons
Depth to Water at Sample Collection: 8.18 feet
Sample Collection Time: 1415 Purged Dry? (Y (N))

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: MW-5
Project Name/Location: BP 11266 Project #: 09-88-658
Sampler's Name: T. Geddes Date: 3/18/10
Purging Equipment: Bailer
Sampling Equipment: Bailer
Casing Type: PVC

Casing Diameter:	2	inch	
Total Well Depth:	25.00	feet	
Depth to Water:	- 6.84	feet	
Water Column Thickness:	= 18.16	feet	
Unit Casing Volume*:	x .16	gallon / foot	
Casing Water Volume:	= 2.9	gallons	
Casing Volume:	x 3	each	
Estimated Purge Volume:	= 8.7	gallons	

***UNIT CASING VOLUMES**
2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.65 gal/lin ft.
6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1428	1.30	-5		953.9	70.0	7.13	
1	1430	X	X	X	953.2	66.7	6.93	
2.5	1433	X	X	X	921.1	65.3	6.92	
3	1435	X	X	X	893.3	65.1	6.92	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3 gallons
Depth to Water at Sample Collection: 7.05 feet
Sample Collection Time: 1445 Purged Dry? (Y / (N))

Comments: DTB 9.11. Roots may be obstructing the well (its next to a tree)

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: MW-6
Project Name/Location: BP 11266 Project #: 09-88-658
Sampler's Name: T. Geddes Date: 3/18/10
Purging Equipment: Bailer
Sampling Equipment: Bailer
Casing Type: PVC

Casing Diameter:	2	inch	
Total Well Depth:	25.00	feet	
Depth to Water:	- 8.04	feet	
Water Column Thickness:	= 16.96	feet	
Unit Casing Volume*:	x .16	gallon / foot	
Casing Water Volume:	= 2.7	gallons	
Casing Volume:	x 3	each	
Estimated Purge Volume:	= 8.14	gallons	

***UNIT CASING VOLUMES**
2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.65 gal/lin ft.
6" = 1.47 gal/lin ft.

Free product measurement (if present): ____

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1502	94	-5		667.5	69.5	7.18	
2	1510	X	X	X	658.3	67.2	6.84	
4	1512	1.25	X	X	660.5	66.9	6.82	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 4 gallons
Depth to Water at Sample Collection: 8.49 feet
Sample Collection Time: 1520
Purged Dry? (Y (N))

Comments:

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

Groundwater Sampling Data Sheet

Well I.D.: ~~BW-7~~ RW-1
Project Name/Location: BP 11266 Project #: 09-88-658
Sampler's Name: T. Geddes Date: 3/18/10
Purging Equipment: Pump
Sampling Equipment: Bailer
Casing Type: PVC

Casing Diameter:		6	inch
Total Well Depth:		30.0	feet
Depth to Water:	-	7.64	feet
Water Column Thickness:	=	22.36	feet
Unit Casing Volume*:	x	1.65	gallon / foot
Casing Water Volume:	=	36.8	gallons
Casing Volume:	x	3	each
Estimated Purge Volume:	=	110.4	gallons

***UNIT CASING VOLUMES**
2" = 0.16 gal/lin ft.
3" = 0.37 gal/lin ft.
4" = 0.65 gal/lin ft.
6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time (24:00)	DO	ORP (mV)	Fe	Conductance (µS)	Temperature (Fahrenheit)	pH	Observations
0	1639	1.17	-2		635.0	66.5	7.15	
10	1641	X	X	X	634.1	65.8	7.17	
20	1644	X	X	X	632.3	65.4	7.07	
26	1646	X	X	X	632.1	65.6	7.07	
35	1648	X	X	X	627.9	65.5	7.06	
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 35 gallons
Depth to Water at Sample Collection: feet
Sample Collection Time: 1658
Purged Dry? (Y / (N))

Comments:

NO. 857360

NON-HAZARDOUS WASTE DATA FORM

1. BEST #

GENERATOR

2. Generator's Name and Mailing Address

BP WEST COAST PRODUCTS, LLC
P.O. BOX 80249
RANCHO SANTA MARGARITA, CA 92688

Generator's Site Address (if different than mailing address)

BP 11126
1700 Powell
Emeryville, CA

Generator's Phone: (949) 460-5200

24-HOUR EMERGENCY PHONE: (949) 699-3706

3. Transporter 1 Company Name: Broadbent & Associates, Inc. — Phone #: (530) 566-1400

4. Transporter 2 Company Name: Gomes Excavating — Phone #: (707) 374-2881

5. Designated Facility Name and Site Address — Phone #: (530) 753-1829

INTRAT, INC.
1105 AIRPORT RD #C
RIO VISTA, CA 94571

6. Waste Shipping Name and Description	7. Containers No.	7. Containers Type	8. Total Quantity	9. Unit Wt/Vol	10. Profile No.
A. NON-HAZARDOUS WATER	1	TT	45	G	
B.					
C.					
D.					

11. Special Handling Instructions and Additional Information

WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

WELL PURGING / DECON WATER

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this data form are non-hazardous.

Generator's/Offeror's Printed/Typed Name: Eric Farrar — Signature — Month: 12 — Day: 30 — Year: 09

TRANSPORTER

13. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Eric Farrar — Signature — Month: 12 — Day: 30 — Year: 09

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

FACILITY

14. Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

Printed/Typed Name — Signature — Month — Day — Year

GENERATOR (ORIGINAL)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-26779-1

Job Description: BP 11266, Alameda

For:
ARCADIS U.S., Inc.
155 Montgomery Street
Suite 1500
San Francisco, CA 94104

Attention: Hollis Phillips

Approved for release.
Afsaneh Salimpour
Project Manager I
3/31/2010 6:32 PM

Designee for
Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
03/31/2010

cc: Mr. Jason Duda
Mr. Ben McKenna

CA ELAP Certification # 2496
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Comments
No additional comments.

Receipt
Did not receive any Trip Blank vials.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch #68373 exceeded control limits for the following analytes: Ethanol.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-26779-1	**MW-1(03/18/10)**				
Toluene		5.6	5.0	ug/L	8260B
Ethylbenzene		24	5.0	ug/L	8260B
Xylenes, Total		170	10	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		2100	500	ug/L	8260B
Lead		0.025	0.0050	mg/L	200.7 Rev 4.4
720-26779-2	**MW-2(03/18/10)**				
MTBE		6.3	0.50	ug/L	8260B
720-26779-3	**MW-3(03/18/10)**				
Chlorobenzene		1.1	0.50	ug/L	8260B
1,2-Dichlorobenzene		2.8	0.50	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		100	50	ug/L	8260B
720-26779-5	**MW-5(03/18/10)**				
TBA		4.2	4.0	ug/L	8260B
720-26779-7TB	**RW-1(03/18/10)**				
Benzene		3.9	2.5	ug/L	8260B
Toluene		82	2.5	ug/L	8260B
Ethylbenzene		59	2.5	ug/L	8260B
Xylenes, Total		280	5.0	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		1000	250	ug/L	8260B
Lead		0.014	0.0050	mg/L	200.7 Rev 4.4

METHOD SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SF	SW846 8260B	
Purge and Trap	TAL SF		SW846 5030B
Metals (ICP)	TAL SF	EPA 200.7 Rev 4.4	
Preparation, Total Metals	TAL SF		EPA 200.7

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Method	Analyst	Analyst ID
SW846 8260B	Chen, Amy	AC
SW846 8260B	Le, Lien	LL
EPA 200.7 Rev 4.4	Vega, Anthony	AV

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-26779-1	MW-1(03/18/10)	Water	03/18/2010 1600	03/22/2010 1800
720-26779-2	MW-2(03/18/10)	Water	03/18/2010 1624	03/22/2010 1800
720-26779-3	MW-3(03/18/10)	Water	03/18/2010 1540	03/22/2010 1800
720-26779-4	MW-4(03/18/10)	Water	03/18/2010 1415	03/22/2010 1800
720-26779-5	MW-5(03/18/10)	Water	03/18/2010 1444	03/22/2010 1800
720-26779-6	MW-6(03/18/10)	Water	03/18/2010 1520	03/22/2010 1800
720-26779-7TB	RW-1(03/18/10)	Water	03/18/2010 1658	03/22/2010 1800

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-1(03/18/10)**

Lab Sample ID: 720-26779-1 Date Sampled: 03/18/2010 1600
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68373	Instrument ID: HP4
Preparation:	5030B		Lab File ID: 03261012.D
Dilution:	10		Initial Weight/Volume: 10 mL
Date Analyzed:	03/26/2010 1507		Final Weight/Volume: 10 mL
Date Prepared:	03/26/2010 1507		

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		5.0
MTBE	ND		5.0
1,1-Dichloroethane	ND		5.0
Dichlorodifluoromethane	ND		5.0
Vinyl chloride	ND		5.0
Chloroethane	ND		10
Trichlorofluoromethane	ND		10
Methylene Chloride	ND		50
trans-1,2-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
Chloroform	ND		10
1,1,1-Trichloroethane	ND		5.0
Carbon tetrachloride	ND		5.0
1,2-Dichloroethane	ND		5.0
Trichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
Dichlorobromomethane	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Chlorodibromomethane	ND		5.0
Chlorobenzene	ND		5.0
Bromoform	ND		10
1,1,2,2-Tetrachloroethane	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,2-Dichlorobenzene	ND		5.0
Chloromethane	ND		10
Bromomethane	ND		10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
EDB	ND		5.0
1,2,4-Trichlorobenzene	ND		10
Benzene	ND		5.0
Toluene	5.6		5.0
Ethylbenzene	24		5.0
Xylenes, Total	170		10
Gasoline Range Organics (GRO)-C6-C12	2100		500
TBA	ND		40
Ethanol	ND	*	1000
DIPE	ND		5.0
TAME	ND		5.0
Ethyl tert-butyl ether	ND		5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	88		70 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-1(03/18/10)**

Lab Sample ID: 720-26779-1 Date Sampled: 03/18/2010 1600
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68373	Instrument ID: HP4
Preparation:	5030B		Lab File ID: 03261012.D
Dilution:	10		Initial Weight/Volume: 10 mL
Date Analyzed:	03/26/2010 1507		Final Weight/Volume: 10 mL
Date Prepared:	03/26/2010 1507		

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	89		67 - 130
1,2-Dichloroethane-d4 (Surr)	90		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-2(03/18/10)**

Lab Sample ID: 720-26779-2 Date Sampled: 03/18/2010 1624
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68303	Instrument ID: HP5
Preparation:	5030B		Lab File ID: 03251017.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/25/2010 1857		Final Weight/Volume: 10 mL
Date Prepared:	03/25/2010 1857		

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		0.50
MTBE	6.3		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	95		70 - 130
4-Bromofluorobenzene	99		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-2(03/18/10)**

Lab Sample ID: 720-26779-2 Date Sampled: 03/18/2010 1624
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68303	Instrument ID: HP5
Preparation:	5030B		Lab File ID: 03251017.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/25/2010 1857		Final Weight/Volume: 10 mL
Date Prepared:	03/25/2010 1857		

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-2(03/18/10)**

Lab Sample ID: 720-26779-2 Date Sampled: 03/18/2010 1624
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68371	Instrument ID: CHMSV2
Preparation:	5030B		Lab File ID: 03261011.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/26/2010 1417		Final Weight/Volume: 10 mL
Date Prepared:	03/26/2010 1417		

Analyte	Result (ug/L)	Qualifier	RL
Ethanol	ND		100

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	102		70 - 130
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	84		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-3(03/18/10)**

Lab Sample ID: 720-26779-3 Date Sampled: 03/18/2010 1540
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-68222 Instrument ID: HP12
Preparation: 5030B Lab File ID: 03241024.D
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/24/2010 2057 Final Weight/Volume: 10 mL
Date Prepared: 03/24/2010 2057

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		0.50
MTBE	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	1.1		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	2.8		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		4.0
Ethanol	ND		100
DIPE	ND		0.50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	96		70 - 130
4-Bromofluorobenzene	101		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-3(03/18/10)**

Lab Sample ID: 720-26779-3 Date Sampled: 03/18/2010 1540
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68222	Instrument ID: HP12
Preparation:	5030B		Lab File ID: 03241024.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/24/2010 2057		Final Weight/Volume: 10 mL
Date Prepared:	03/24/2010 2057		

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-3(03/18/10)**

Lab Sample ID: 720-26779-3 Date Sampled: 03/18/2010 1540
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68371	Instrument ID: CHMSV2
Preparation:	5030B		Lab File ID: 03261013.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/26/2010 1522		Final Weight/Volume: 10 mL
Date Prepared:	03/26/2010 1522		

Analyte	Result (ug/L)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C12	100		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		70 - 130
4-Bromofluorobenzene	106		67 - 130
1,2-Dichloroethane-d4 (Surr)	93		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-4(03/18/10)**

Lab Sample ID: 720-26779-4 Date Sampled: 03/18/2010 1415
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 720-68222 Instrument ID: HP12
Preparation: 5030B Lab File ID: 03241021.D
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 03/24/2010 1924 Final Weight/Volume: 10 mL
Date Prepared: 03/24/2010 1924

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		0.50
MTBE	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		4.0
Ethanol	ND		100
DIPE	ND		0.50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	94		70 - 130
4-Bromofluorobenzene	96		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-4(03/18/10)**

Lab Sample ID: 720-26779-4 Date Sampled: 03/18/2010 1415
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68222	Instrument ID:	HP12
Preparation:	5030B		Lab File ID:	03241021.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1924		Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1924			

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-4(03/18/10)**

Lab Sample ID: 720-26779-4 Date Sampled: 03/18/2010 1415
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68371	Instrument ID: CHMSV2
Preparation:	5030B		Lab File ID: 03261014.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/26/2010 1554		Final Weight/Volume: 10 mL
Date Prepared:	03/26/2010 1554		

Analyte	Result (ug/L)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C12	ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		70 - 130
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	91		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-5(03/18/10)**

Lab Sample ID: 720-26779-5 Date Sampled: 03/18/2010 1444
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68303	Instrument ID: HP5
Preparation:	5030B		Lab File ID: 03251018.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/25/2010 1929		Final Weight/Volume: 10 mL
Date Prepared:	03/25/2010 1929		

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		0.50
MTBE	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
TBA	4.2		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	95		70 - 130
4-Bromofluorobenzene	99		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-5(03/18/10)**

Lab Sample ID: 720-26779-5 Date Sampled: 03/18/2010 1444
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68303	Instrument ID:	HP5
Preparation:	5030B		Lab File ID:	03251018.D
Dilution:	1.0		Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 1929		Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 1929			

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-5(03/18/10)**

Lab Sample ID: 720-26779-5 Date Sampled: 03/18/2010 1444
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68371	Instrument ID: CHMSV2
Preparation:	5030B		Lab File ID: 03261012.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/26/2010 1449		Final Weight/Volume: 10 mL
Date Prepared:	03/26/2010 1449		

Analyte	Result (ug/L)	Qualifier	RL
Ethanol	ND		100

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	101		70 - 130
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	90		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-6(03/18/10)**

Lab Sample ID: 720-26779-6 Date Sampled: 03/18/2010 1520
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68362	Instrument ID: HP5
Preparation:	5030B		Lab File ID: 03251030.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/26/2010 0143		Final Weight/Volume: 10 mL
Date Prepared:	03/26/2010 0143		

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		0.50
MTBE	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
TBA	ND		4.0
DIPE	ND		0.50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	96		70 - 130
4-Bromofluorobenzene	101		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-6(03/18/10)**

Lab Sample ID: 720-26779-6 Date Sampled: 03/18/2010 1520
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68362	Instrument ID: HP5
Preparation:	5030B		Lab File ID: 03251030.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/26/2010 0143		Final Weight/Volume: 10 mL
Date Prepared:	03/26/2010 0143		

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-6(03/18/10)**

Lab Sample ID: 720-26779-6 Date Sampled: 03/18/2010 1520
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68435	Instrument ID: HP12
Preparation:	5030B		Lab File ID: 03261030.D
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/27/2010 0004		Final Weight/Volume: 10 mL
Date Prepared:	03/27/2010 0004		

Analyte	Result (ug/L)	Qualifier	RL
Ethanol	ND		100

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	96		70 - 130
4-Bromofluorobenzene	98		67 - 130
1,2-Dichloroethane-d4 (Surr)	108		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **RW-1(03/18/10)**

Lab Sample ID: 720-26779-7TB Date Sampled: 03/18/2010 1658
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68362	Instrument ID: HP5
Preparation:	5030B		Lab File ID: 03251031.D
Dilution:	5.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/26/2010 0215		Final Weight/Volume: 10 mL
Date Prepared:	03/26/2010 0215		

Analyte	Result (ug/L)	Qualifier	RL
1,1-Dichloroethene	ND		2.5
MTBE	ND		2.5
1,1-Dichloroethane	ND		2.5
Dichlorodifluoromethane	ND		2.5
Vinyl chloride	ND		2.5
Chloroethane	ND		5.0
Trichlorofluoromethane	ND		5.0
Methylene Chloride	ND		25
trans-1,2-Dichloroethene	ND		2.5
cis-1,2-Dichloroethene	ND		2.5
Chloroform	ND		5.0
1,1,1-Trichloroethane	ND		2.5
Carbon tetrachloride	ND		2.5
1,2-Dichloroethane	ND		2.5
Trichloroethene	ND		2.5
1,2-Dichloropropane	ND		2.5
Dichlorobromomethane	ND		2.5
trans-1,3-Dichloropropene	ND		2.5
cis-1,3-Dichloropropene	ND		2.5
1,1,2-Trichloroethane	ND		2.5
Tetrachloroethene	ND		2.5
Chlorodibromomethane	ND		2.5
Chlorobenzene	ND		2.5
Bromoform	ND		5.0
1,1,2,2-Tetrachloroethane	ND		2.5
1,3-Dichlorobenzene	ND		2.5
1,4-Dichlorobenzene	ND		2.5
1,2-Dichlorobenzene	ND		2.5
Chloromethane	ND		5.0
Bromomethane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5
EDB	ND		2.5
1,2,4-Trichlorobenzene	ND		5.0
Benzene	3.9		2.5
Toluene	82		2.5
Ethylbenzene	59		2.5
Xylenes, Total	280		5.0
Gasoline Range Organics (GRO)-C6-C12	1000		250
TBA	ND		20
DIPE	ND		2.5
TAME	ND		2.5
Ethyl tert-butyl ether	ND		2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		70 - 130
4-Bromofluorobenzene	106		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **RW-1(03/18/10)**

Lab Sample ID: 720-26779-7TB Date Sampled: 03/18/2010 1658
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68362	Instrument ID:	HP5
Preparation:	5030B		Lab File ID:	03251031.D
Dilution:	5.0		Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 0215		Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 0215			

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **RW-1(03/18/10)**

Lab Sample ID: 720-26779-7TB Date Sampled: 03/18/2010 1658
Client Matrix: Water Date Received: 03/22/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 720-68435	Instrument ID: HP12
Preparation:	5030B		Lab File ID: 03261031.D
Dilution:	5.0		Initial Weight/Volume: 10 mL
Date Analyzed:	03/27/2010 0035		Final Weight/Volume: 10 mL
Date Prepared:	03/27/2010 0035		

Analyte	Result (ug/L)	Qualifier	RL
Ethanol	ND		500

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		70 - 130
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	106		67 - 130

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-1(03/18/10)**

Lab Sample ID: 720-26779-1 Date Sampled: 03/18/2010 1600
Client Matrix: Water Date Received: 03/22/2010 1800

200.7 Rev 4.4 Metals (ICP)

Method:	200.7 Rev 4.4	Analysis Batch: 720-68574		Instrument ID:	Thermo ICP
Preparation:	200.7	Prep Batch: 720-68478		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	03/29/2010 2014			Final Weight/Volume:	20 mL
Date Prepared:	03/27/2010 1556				

Analyte	Result (mg/L)	Qualifier	RL
Lead	0.025		0.0050

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-2(03/18/10)**

Lab Sample ID: 720-26779-2 Date Sampled: 03/18/2010 1624
Client Matrix: Water Date Received: 03/22/2010 1800

200.7 Rev 4.4 Metals (ICP)

Method:	200.7 Rev 4.4	Analysis Batch: 720-68574		Instrument ID:	Thermo ICP
Preparation:	200.7	Prep Batch: 720-68478		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	03/29/2010 2019			Final Weight/Volume:	20 mL
Date Prepared:	03/27/2010 1556				

Analyte	Result (mg/L)	Qualifier	RL
Lead	ND		0.0050

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-3(03/18/10)**

Lab Sample ID: 720-26779-3 Date Sampled: 03/18/2010 1540
Client Matrix: Water Date Received: 03/22/2010 1800

200.7 Rev 4.4 Metals (ICP)

Method:	200.7 Rev 4.4	Analysis Batch: 720-68574		Instrument ID:	Thermo ICP
Preparation:	200.7	Prep Batch: 720-68478		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	03/29/2010 2023			Final Weight/Volume:	20 mL
Date Prepared:	03/27/2010 1556				

Analyte	Result (mg/L)	Qualifier	RL
Lead	ND		0.0050

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-4(03/18/10)**

Lab Sample ID: 720-26779-4 Date Sampled: 03/18/2010 1415
Client Matrix: Water Date Received: 03/22/2010 1800

200.7 Rev 4.4 Metals (ICP)

Method:	200.7 Rev 4.4	Analysis Batch: 720-68574		Instrument ID:	Thermo ICP
Preparation:	200.7	Prep Batch: 720-68478		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	03/29/2010 2027			Final Weight/Volume:	20 mL
Date Prepared:	03/27/2010 1556				

Analyte	Result (mg/L)	Qualifier	RL
Lead	ND		0.0050

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-5(03/18/10)**

Lab Sample ID: 720-26779-5 Date Sampled: 03/18/2010 1444
Client Matrix: Water Date Received: 03/22/2010 1800

200.7 Rev 4.4 Metals (ICP)

Method:	200.7 Rev 4.4	Analysis Batch: 720-68574		Instrument ID:	Thermo ICP
Preparation:	200.7	Prep Batch: 720-68478		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	03/29/2010 2032			Final Weight/Volume:	20 mL
Date Prepared:	03/27/2010 1556				

Analyte	Result (mg/L)	Qualifier	RL
Lead	ND		0.0050

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **MW-6(03/18/10)**

Lab Sample ID: 720-26779-6 Date Sampled: 03/18/2010 1520
Client Matrix: Water Date Received: 03/22/2010 1800

200.7 Rev 4.4 Metals (ICP)

Method:	200.7 Rev 4.4	Analysis Batch: 720-68574		Instrument ID:	Thermo ICP
Preparation:	200.7	Prep Batch: 720-68478		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	03/29/2010 2036			Final Weight/Volume:	20 mL
Date Prepared:	03/27/2010 1556				

Analyte	Result (mg/L)	Qualifier	RL
Lead	ND		0.0050

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Client Sample ID: **RW-1(03/18/10)**

Lab Sample ID: 720-26779-7TB Date Sampled: 03/18/2010 1658
Client Matrix: Water Date Received: 03/22/2010 1800

200.7 Rev 4.4 Metals (ICP)

Method:	200.7 Rev 4.4	Analysis Batch: 720-68574		Instrument ID:	Thermo ICP
Preparation:	200.7	Prep Batch: 720-68478		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	03/29/2010 2049			Final Weight/Volume:	20 mL
Date Prepared:	03/27/2010 1556				

Analyte	Result (mg/L)	Qualifier	RL
Lead	0.014		0.0050

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	RPD of the LCS and LCSD exceeds the control limits

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-68222					
LCS 720-68222/5	Lab Control Sample	T	Water	8260B	
LCSD 720-68222/6	Lab Control Sample Duplicate	T	Water	8260B	
MB 720-68222/4	Method Blank	T	Water	8260B	
720-26779-3	MW-3(03/18/10)	T	Water	8260B	
720-26779-4	MW-4(03/18/10)	T	Water	8260B	
720-26779-4MS	Matrix Spike	T	Water	8260B	
720-26779-4MSD	Matrix Spike Duplicate	T	Water	8260B	
Analysis Batch:720-68303					
LCS 720-68303/5	Lab Control Sample	T	Water	8260B	
LCS 720-68303/7	Lab Control Sample	T	Water	8260B	
LCSD 720-68303/6	Lab Control Sample Duplicate	T	Water	8260B	
LCSD 720-68303/8	Lab Control Sample Duplicate	T	Water	8260B	
MB 720-68303/4	Method Blank	T	Water	8260B	
720-26779-2	MW-2(03/18/10)	T	Water	8260B	
720-26779-5	MW-5(03/18/10)	T	Water	8260B	
Analysis Batch:720-68362					
LCS 720-68362/5	Lab Control Sample	T	Water	8260B	
LCS 720-68362/7	Lab Control Sample	T	Water	8260B	
LCSD 720-68362/6	Lab Control Sample Duplicate	T	Water	8260B	
LCSD 720-68362/8	Lab Control Sample Duplicate	T	Water	8260B	
MB 720-68362/4	Method Blank	T	Water	8260B	
720-26779-6	MW-6(03/18/10)	T	Water	8260B	
720-26779-7TB	RW-1(03/18/10)	T	Water	8260B	
Analysis Batch:720-68371					
LCS 720-68371/5	Lab Control Sample	T	Water	8260B	
LCS 720-68371/7	Lab Control Sample	T	Water	8260B	
LCSD 720-68371/6	Lab Control Sample Duplicate	T	Water	8260B	
LCSD 720-68371/8	Lab Control Sample Duplicate	T	Water	8260B	
MB 720-68371/9	Method Blank	T	Water	8260B	
720-26779-2	MW-2(03/18/10)	T	Water	8260B	
720-26779-3	MW-3(03/18/10)	T	Water	8260B	
720-26779-4	MW-4(03/18/10)	T	Water	8260B	
720-26779-5	MW-5(03/18/10)	T	Water	8260B	
Analysis Batch:720-68373					
LCS 720-68373/5	Lab Control Sample	T	Water	8260B	
LCS 720-68373/7	Lab Control Sample	T	Water	8260B	
LCSD 720-68373/6	Lab Control Sample Duplicate	T	Water	8260B	
LCSD 720-68373/8	Lab Control Sample Duplicate	T	Water	8260B	
MB 720-68373/4	Method Blank	T	Water	8260B	
720-26779-1	MW-1(03/18/10)	T	Water	8260B	

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-68435					
LCS 720-68435/4	Lab Control Sample	T	Water	8260B	
LCSD 720-68435/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 720-68435/3	Method Blank	T	Water	8260B	
720-26779-6	MW-6(03/18/10)	T	Water	8260B	
720-26779-7TB	RW-1(03/18/10)	T	Water	8260B	

Report Basis
T = Total

Metals					
Prep Batch: 720-68478					
LCS 720-68478/2-A	Lab Control Sample	T	Water	200.7	
LCSD 720-68478/3-A	Lab Control Sample Duplicate	T	Water	200.7	
MB 720-68478/1-A	Method Blank	T	Water	200.7	
720-26779-1	MW-1(03/18/10)	T	Water	200.7	
720-26779-2	MW-2(03/18/10)	T	Water	200.7	
720-26779-3	MW-3(03/18/10)	T	Water	200.7	
720-26779-4	MW-4(03/18/10)	T	Water	200.7	
720-26779-5	MW-5(03/18/10)	T	Water	200.7	
720-26779-6	MW-6(03/18/10)	T	Water	200.7	
720-26779-7TB	RW-1(03/18/10)	T	Water	200.7	
Analysis Batch:720-68574					
LCS 720-68478/2-A	Lab Control Sample	T	Water	200.7 Rev 4.4	720-68478
LCSD 720-68478/3-A	Lab Control Sample Duplicate	T	Water	200.7 Rev 4.4	720-68478
MB 720-68478/1-A	Method Blank	T	Water	200.7 Rev 4.4	720-68478
720-26779-1	MW-1(03/18/10)	T	Water	200.7 Rev 4.4	720-68478
720-26779-2	MW-2(03/18/10)	T	Water	200.7 Rev 4.4	720-68478
720-26779-3	MW-3(03/18/10)	T	Water	200.7 Rev 4.4	720-68478
720-26779-4	MW-4(03/18/10)	T	Water	200.7 Rev 4.4	720-68478
720-26779-5	MW-5(03/18/10)	T	Water	200.7 Rev 4.4	720-68478
720-26779-6	MW-6(03/18/10)	T	Water	200.7 Rev 4.4	720-68478
720-26779-7TB	RW-1(03/18/10)	T	Water	200.7 Rev 4.4	720-68478

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Method Blank - Batch: 720-68222

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-68222/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2010 1230
Date Prepared: 03/24/2010 1230

Analysis Batch: 720-68222
Prep Batch: N/A
Units: ug/L

Instrument ID: HP12
Lab File ID: 03241008.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,1-Dichloroethene	ND		0.50
MTBE	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		4.0
Ethanol	ND		100

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Method Blank - Batch: 720-68222

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-68222/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2010 1230
Date Prepared: 03/24/2010 1230

Analysis Batch: 720-68222
Prep Batch: N/A
Units: ug/L

Instrument ID: HP12
Lab File ID: 03241008.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
DIPE	ND		0.50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	96	70 - 130
4-Bromofluorobenzene	99	67 - 130
1,2-Dichloroethane-d4 (Surr)	104	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68222

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68222/5	Analysis Batch:	720-68222	Instrument ID:	HP12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03241009.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1301			Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1301				

LCSD Lab Sample ID:	LCSD 720-68222/6	Analysis Batch:	720-68222	Instrument ID:	HP12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03241010.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1331			Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1331				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	97	95	64 - 128	2	20		
MTBE	102	98	81 - 125	4	20		
1,1-Dichloroethane	95	92	70 - 130	4	20		
Dichlorodifluoromethane	70	66	42 - 188	6	20		
Vinyl chloride	87	84	65 - 156	3	20		
Chloroethane	95	92	73 - 150	3	20		
Trichlorofluoromethane	99	95	70 - 130	4	20		
Methylene Chloride	90	86	73 - 147	5	20		
trans-1,2-Dichloroethene	103	99	82 - 114	4	20		
cis-1,2-Dichloroethene	95	91	70 - 130	4	20		
Chloroform	100	97	70 - 130	3	20		
1,1,1-Trichloroethane	107	103	70 - 130	4	20		
Carbon tetrachloride	112	109	77 - 146	3	20		
1,2-Dichloroethane	98	94	75 - 145	4	20		
Trichloroethene	100	96	70 - 130	4	20		
1,2-Dichloropropane	93	89	70 - 130	4	20		
Dichlorobromomethane	109	105	70 - 130	4	20		
trans-1,3-Dichloropropene	111	106	70 - 130	4	20		
cis-1,3-Dichloropropene	109	105	70 - 130	4	20		
1,1,2-Trichloroethane	95	91	86 - 135	4	20		
Tetrachloroethene	103	98	70 - 130	5	20		
Chlorodibromomethane	113	110	78 - 145	3	20		
Chlorobenzene	92	89	70 - 130	3	20		
Bromoform	97	93	68 - 136	4	20		
1,1,2,2-Tetrachloroethane	89	86	70 - 130	4	20		
1,3-Dichlorobenzene	97	92	70 - 130	5	20		
1,4-Dichlorobenzene	95	91	87 - 120	5	20		
1,2-Dichlorobenzene	96	92	70 - 130	4	20		
Chloromethane	92	86	52 - 175	7	20		
Bromomethane	98	95	43 - 151	3	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	104	99	42 - 162	5	20		
EDB	105	100	70 - 130	5	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68222

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68222/5	Analysis Batch:	720-68222	Instrument ID:	HP12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03241009.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1301			Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1301				

LCSD Lab Sample ID:	LCSD 720-68222/6	Analysis Batch:	720-68222	Instrument ID:	HP12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03241010.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1331			Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1331				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2,4-Trichlorobenzene	104	96	70 - 130	8	20		
Benzene	91	88	82 - 127	3	20		
Toluene	101	98	83 - 129	3	20		
Ethylbenzene	95	91	86 - 135	4	20		
m-Xylene & p-Xylene	93	90	70 - 142	4	20		
o-Xylene	94	91	89 - 136	4	20		
TBA	97	95	85 - 110	3	20		
Ethanol	104	97	31 - 216	6	20		
DIPE	93	89	74 - 155	4	20		
TAME	109	106	79 - 129	4	20		
Ethyl tert-butyl ether	98	94	70 - 130	4	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	100	99	70 - 130
4-Bromofluorobenzene	102	101	67 - 130
1,2-Dichloroethane-d4 (Surr)	97	96	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-68222

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-26779-4	Analysis Batch:	720-68222	Instrument ID:	HP12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03241019.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1823			Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1823				

MSD Lab Sample ID:	720-26779-4	Analysis Batch:	720-68222	Instrument ID:	HP12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03241020.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1853			Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1853				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloroethene	87	92	60 - 140	5	20		
MTBE	94	98	60 - 138	5	20		
1,1-Dichloroethane	89	94	60 - 140	6	20		
Dichlorodifluoromethane	64	66	38 - 140	4	20		
Vinyl chloride	79	85	58 - 140	7	20		
Chloroethane	85	89	51 - 140	5	20		
Trichlorofluoromethane	90	95	60 - 140	5	20		
Methylene Chloride	84	88	40 - 140	5	20		
trans-1,2-Dichloroethene	92	98	60 - 140	6	20		
cis-1,2-Dichloroethene	89	93	60 - 140	4	20		
Chloroform	93	97	60 - 140	5	20		
1,1,1-Trichloroethane	92	97	60 - 140	6	20		
Carbon tetrachloride	96	102	60 - 140	7	20		
1,2-Dichloroethane	90	94	60 - 140	4	20		
Trichloroethene	90	95	60 - 140	5	20		
1,2-Dichloropropane	93	95	60 - 140	2	20		
Dichlorobromomethane	102	107	60 - 140	5	20		
trans-1,3-Dichloropropene	104	108	60 - 140	4	20		
cis-1,3-Dichloropropene	104	106	60 - 140	3	20		
1,1,2-Trichloroethane	94	96	60 - 140	2	20		
Tetrachloroethene	90	94	60 - 140	4	20		
Chlorodibromomethane	105	109	60 - 140	4	20		
Chlorobenzene	87	91	60 - 140	5	20		
Bromoform	88	91	56 - 140	3	20		
1,1,2,2-Tetrachloroethane	91	91	60 - 140	0	20		
1,3-Dichlorobenzene	93	97	60 - 140	4	20		
1,4-Dichlorobenzene	91	94	60 - 140	3	20		
1,2-Dichlorobenzene	93	96	60 - 140	3	20		
Chloromethane	75	85	52 - 140	12	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-68222

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-26779-4	Analysis Batch:	720-68222	Instrument ID:	HP12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03241019.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1823			Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1823				

MSD Lab Sample ID:	720-26779-4	Analysis Batch:	720-68222	Instrument ID:	HP12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03241020.D
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/24/2010 1853			Final Weight/Volume:	10 mL
Date Prepared:	03/24/2010 1853				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Bromomethane	86	93	23 - 140	8	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	88	94	60 - 140	7	20		
EDB	100	100	60 - 140	0	20		
1,2,4-Trichlorobenzene	95	98	60 - 140	3	20		
Benzene	88	91	60 - 140	3	20		
Toluene	96	100	60 - 140	4	20		
Ethylbenzene	89	93	60 - 140	4	20		
m-Xylene & p-Xylene	87	90	60 - 140	3	20		
o-Xylene	89	93	60 - 140	5	20		
TBA	94	97	60 - 140	3	20		
Ethanol	103	106	60 - 140	3	20		
DIPE	92	95	60 - 140	4	20		
TAME	103	107	60 - 140	3	20		
Ethyl tert-butyl ether	94	98	60 - 140	4	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	97	97	70 - 130
4-Bromofluorobenzene	100	100	67 - 130
1,2-Dichloroethane-d4 (Surr)	93	94	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Method Blank - Batch: 720-68303

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-68303/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2010 1117
Date Prepared: 03/25/2010 1117

Analysis Batch: 720-68303
Prep Batch: N/A
Units: ug/L

Instrument ID: HP5
Lab File ID: 03251004.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,1-Dichloroethene	ND		0.50
MTBE	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
TBA	ND		4.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-26779-1

Method Blank - Batch: 720-68303

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-68303/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2010 1117
Date Prepared: 03/25/2010 1117

Analysis Batch: 720-68303
Prep Batch: N/A
Units: ug/L

Instrument ID: HP5
Lab File ID: 03251004.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
DIPE	ND		0.50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	93	70 - 130
4-Bromofluorobenzene	97	67 - 130
1,2-Dichloroethane-d4 (Surr)	85	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68303

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68303/5	Analysis Batch:	720-68303	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251005.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 1201			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 1201				

LCSD Lab Sample ID:	LCSD 720-68303/6	Analysis Batch:	720-68303	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251006.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 1233			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 1233				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	96	96	64 - 128	0	20		
MTBE	98	99	81 - 125	1	20		
1,1-Dichloroethane	96	95	70 - 130	1	20		
Dichlorodifluoromethane	79	78	42 - 188	1	20		
Vinyl chloride	88	88	65 - 156	0	20		
Chloroethane	91	90	73 - 150	1	20		
Trichlorofluoromethane	97	96	70 - 130	2	20		
Methylene Chloride	96	96	73 - 147	0	20		
trans-1,2-Dichloroethene	95	95	82 - 114	1	20		
cis-1,2-Dichloroethene	96	95	70 - 130	1	20		
Chloroform	95	95	70 - 130	1	20		
1,1,1-Trichloroethane	98	97	70 - 130	0	20		
Carbon tetrachloride	100	100	77 - 146	0	20		
1,2-Dichloroethane	88	88	75 - 145	1	20		
Trichloroethene	97	96	70 - 130	1	20		
1,2-Dichloropropane	98	98	70 - 130	0	20		
Dichlorobromomethane	103	102	70 - 130	1	20		
trans-1,3-Dichloropropene	108	108	70 - 130	0	20		
cis-1,3-Dichloropropene	108	107	70 - 130	1	20		
1,1,2-Trichloroethane	98	99	86 - 135	1	20		
Tetrachloroethene	98	97	70 - 130	1	20		
Chlorodibromomethane	99	98	78 - 145	1	20		
Chlorobenzene	94	94	70 - 130	0	20		
Bromoform	92	93	68 - 136	2	20		
1,1,2,2-Tetrachloroethane	98	103	70 - 130	4	20		
1,3-Dichlorobenzene	97	98	70 - 130	1	20		
1,4-Dichlorobenzene	94	95	87 - 120	1	20		
1,2-Dichlorobenzene	95	96	70 - 130	1	20		
Chloromethane	88	87	52 - 175	1	20		
Bromomethane	94	92	43 - 151	2	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	95	94	42 - 162	1	20		
EDB	101	101	70 - 130	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68303

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68303/5	Analysis Batch:	720-68303	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251005.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 1201			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 1201				

LCSD Lab Sample ID:	LCSD 720-68303/6	Analysis Batch:	720-68303	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251006.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 1233			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 1233				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2,4-Trichlorobenzene	103	104	70 - 130	1	20		
Benzene	97	96	82 - 127	1	20		
Toluene	94	94	83 - 129	0	20		
Ethylbenzene	100	100	86 - 135	0	20		
m-Xylene & p-Xylene	98	97	70 - 142	1	20		
o-Xylene	98	97	89 - 136	1	20		
TBA	98	99	85 - 110	1	20		
DIPE	95	94	74 - 155	1	20		
TAME	106	108	79 - 129	2	20		
Ethyl tert-butyl ether	100	101	70 - 130	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	98	98	70 - 130
4-Bromofluorobenzene	103	100	67 - 130
1,2-Dichloroethane-d4 (Surr)	90	89	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68303

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68303/7	Analysis Batch:	720-68303	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251007.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 1305			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 1305				

LCSD Lab Sample ID:	LCSD 720-68303/8	Analysis Batch:	720-68303	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251008.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 1338			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 1338				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C6-C12	83	82	70 - 130	2	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	98	98	70 - 130
4-Bromofluorobenzene	104	101	67 - 130
1,2-Dichloroethane-d4 (Surr)	96	99	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Method Blank - Batch: 720-68362

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-68362/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2010 2125
Date Prepared: 03/25/2010 2125

Analysis Batch: 720-68362
Prep Batch: N/A
Units: ug/L

Instrument ID: HP5
Lab File ID: 03251022.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,1-Dichloroethene	ND		0.50
MTBE	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
TBA	ND		4.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-26779-1

Method Blank - Batch: 720-68362

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-68362/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2010 2125
Date Prepared: 03/25/2010 2125

Analysis Batch: 720-68362
Prep Batch: N/A
Units: ug/L

Instrument ID: HP5
Lab File ID: 03251022.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
DIPE	ND		0.50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	96	70 - 130
4-Bromofluorobenzene	102	67 - 130
1,2-Dichloroethane-d4 (Surr)	112	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68362

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68362/5	Analysis Batch:	720-68362	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251023.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 2158			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 2158				

LCSD Lab Sample ID:	LCSD 720-68362/6	Analysis Batch:	720-68362	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251024.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 2230			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 2230				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	96	96	64 - 128	0	20		
MTBE	111	112	81 - 125	0	20		
1,1-Dichloroethane	101	101	70 - 130	0	20		
Dichlorodifluoromethane	75	72	42 - 188	5	20		
Vinyl chloride	89	91	65 - 156	2	20		
Chloroethane	92	92	73 - 150	0	20		
Trichlorofluoromethane	103	99	70 - 130	4	20		
Methylene Chloride	101	101	73 - 147	0	20		
trans-1,2-Dichloroethene	88	88	82 - 114	0	20		
cis-1,2-Dichloroethene	115	115	70 - 130	1	20		
Chloroform	105	104	70 - 130	1	20		
1,1,1-Trichloroethane	111	110	70 - 130	2	20		
Carbon tetrachloride	116	114	77 - 146	2	20		
1,2-Dichloroethane	107	107	75 - 145	0	20		
Trichloroethene	103	104	70 - 130	0	20		
1,2-Dichloropropane	105	105	70 - 130	0	20		
Dichlorobromomethane	121	123	70 - 130	1	20		
trans-1,3-Dichloropropene	126	124	70 - 130	2	20		
cis-1,3-Dichloropropene	121	121	70 - 130	0	20		
1,1,2-Trichloroethane	112	113	86 - 135	0	20		
Tetrachloroethene	106	105	70 - 130	2	20		
Chlorodibromomethane	119	118	78 - 145	1	20		
Chlorobenzene	97	97	70 - 130	0	20		
Bromoform	105	105	68 - 136	0	20		
1,1,2,2-Tetrachloroethane	105	105	70 - 130	0	20		
1,3-Dichlorobenzene	100	101	70 - 130	1	20		
1,4-Dichlorobenzene	96	97	87 - 120	1	20		
1,2-Dichlorobenzene	100	100	70 - 130	0	20		
Chloromethane	84	85	52 - 175	2	20		
Bromomethane	94	95	43 - 151	1	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	100	98	42 - 162	3	20		
EDB	117	116	70 - 130	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68362

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68362/5	Analysis Batch:	720-68362	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251023.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 2158			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 2158				

LCSD Lab Sample ID:	LCSD 720-68362/6	Analysis Batch:	720-68362	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251024.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 2230			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 2230				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2,4-Trichlorobenzene	98	101	70 - 130	3	20		
Benzene	100	100	82 - 127	0	20		
Toluene	94	94	83 - 129	0	20		
Ethylbenzene	105	104	86 - 135	1	20		
m-Xylene & p-Xylene	103	103	70 - 142	0	20		
o-Xylene	104	104	89 - 136	0	20		
TBA	91	95	85 - 110	4	20		
DIPE	104	104	74 - 155	0	20		
TAME	121	122	79 - 129	1	20		
Ethyl tert-butyl ether	110	111	70 - 130	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	101	100	70 - 130
4-Bromofluorobenzene	106	105	67 - 130
1,2-Dichloroethane-d4 (Surr)	107	107	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68362

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68362/7	Analysis Batch:	720-68362	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251025.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 2302			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 2302				

LCSD Lab Sample ID:	LCSD 720-68362/8	Analysis Batch:	720-68362	Instrument ID:	HP5
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03251026.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/25/2010 2334			Final Weight/Volume:	10 mL
Date Prepared:	03/25/2010 2334				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C6-C12	86	93	70 - 130	8	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	99	100	70 - 130
4-Bromofluorobenzene	104	105	67 - 130
1,2-Dichloroethane-d4 (Surr)	105	111	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Method Blank - Batch: 720-68371

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 720-68371/9	Analysis Batch:	720-68371	Instrument ID:	CHMSV2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03261006.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 1057			Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 1057				

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethanol	ND		100

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	101	70 - 130
4-Bromofluorobenzene	101	67 - 130
1,2-Dichloroethane-d4 (Surr)	88	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68371

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68371/5	Analysis Batch:	720-68371	Instrument ID:	CHMSV2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03261007.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 1142			Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 1142				

LCSD Lab Sample ID:	LCSD 720-68371/6	Analysis Batch:	720-68371	Instrument ID:	CHMSV2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03261008.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 1214			Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 1214				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ethanol	84	92	31 - 216	9	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	102	101	70 - 130
4-Bromofluorobenzene	100	101	67 - 130
1,2-Dichloroethane-d4 (Surr)	86	85	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68371

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68371/7	Analysis Batch:	720-68371	Instrument ID:	CHMSV2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03261009.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 1247			Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 1247				

LCSD Lab Sample ID:	LCSD 720-68371/8	Analysis Batch:	720-68371	Instrument ID:	CHMSV2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03261010.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 1319			Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 1319				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C6-C12	81	83	70 - 130	2	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	102	101	70 - 130
4-Bromofluorobenzene	104	103	67 - 130
1,2-Dichloroethane-d4 (Surr)	88	89	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-26779-1

Method Blank - Batch: 720-68373

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-68373/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2010 1003
Date Prepared: 03/26/2010 1003

Analysis Batch: 720-68373
Prep Batch: N/A
Units: ug/L

Instrument ID: HP4
Lab File ID: 03261004.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,1-Dichloroethene	ND		0.50
MTBE	ND		0.50
1,1-Dichloroethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
Vinyl chloride	ND		0.50
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Methylene Chloride	ND		5.0
trans-1,2-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
Chloroform	ND		1.0
1,1,1-Trichloroethane	ND		0.50
Carbon tetrachloride	ND		0.50
1,2-Dichloroethane	ND		0.50
Trichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
Dichlorobromomethane	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Chlorodibromomethane	ND		0.50
Chlorobenzene	ND		0.50
Bromoform	ND		1.0
1,1,2,2-Tetrachloroethane	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,2-Dichlorobenzene	ND		0.50
Chloromethane	ND		1.0
Bromomethane	ND		1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
EDB	ND		0.50
1,2,4-Trichlorobenzene	ND		1.0
Benzene	ND		0.50
Toluene	ND		0.50
Ethylbenzene	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
TBA	ND		4.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 720-26779-1

Method Blank - Batch: 720-68373

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-68373/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2010 1003
Date Prepared: 03/26/2010 1003

Analysis Batch: 720-68373
Prep Batch: N/A
Units: ug/L

Instrument ID: HP4
Lab File ID: 03261004.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Ethanol	ND		100
DIPE	ND		0.50
TAME	ND		0.50
Ethyl tert-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	99	70 - 130
4-Bromofluorobenzene	94	67 - 130
1,2-Dichloroethane-d4 (Surr)	107	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68373

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68373/5	Analysis Batch:	720-68373	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03261005.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 1048			Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 1048				

LCSD Lab Sample ID:	LCSD 720-68373/6	Analysis Batch:	720-68373	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03261006.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 1120			Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 1120				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloroethene	94	98	64 - 128	4	20		
MTBE	103	101	81 - 125	2	20		
1,1-Dichloroethane	97	99	70 - 130	1	20		
Dichlorodifluoromethane	76	81	42 - 188	6	20		
Vinyl chloride	81	95	65 - 156	16	20		
Chloroethane	91	93	73 - 150	2	20		
Trichlorofluoromethane	100	103	70 - 130	3	20		
Methylene Chloride	97	98	73 - 147	1	20		
trans-1,2-Dichloroethene	88	90	82 - 114	2	20		
cis-1,2-Dichloroethene	109	110	70 - 130	1	20		
Chloroform	101	101	70 - 130	0	20		
1,1,1-Trichloroethane	106	109	70 - 130	3	20		
Carbon tetrachloride	113	116	77 - 146	3	20		
1,2-Dichloroethane	103	100	75 - 145	3	20		
Trichloroethene	104	105	70 - 130	1	20		
1,2-Dichloropropane	100	100	70 - 130	1	20		
Dichlorobromomethane	115	114	70 - 130	1	20		
trans-1,3-Dichloropropene	104	102	70 - 130	2	20		
cis-1,3-Dichloropropene	107	106	70 - 130	2	20		
1,1,2-Trichloroethane	105	101	86 - 135	4	20		
Tetrachloroethene	99	103	70 - 130	3	20		
Chlorodibromomethane	108	104	78 - 145	4	20		
Chlorobenzene	94	97	70 - 130	3	20		
Bromoform	104	100	68 - 136	3	20		
1,1,2,2-Tetrachloroethane	106	103	70 - 130	3	20		
1,3-Dichlorobenzene	98	101	70 - 130	3	20		
1,4-Dichlorobenzene	96	98	87 - 120	2	20		
1,2-Dichlorobenzene	97	100	70 - 130	3	20		
Chloromethane	78	82	52 - 175	4	20		
Bromomethane	93	94	43 - 151	1	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	93	99	42 - 162	6	20		
EDB	111	107	70 - 130	4	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68373

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68373/5	Analysis Batch:	720-68373	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03261005.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 1048			Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 1048				

LCSD Lab Sample ID:	LCSD 720-68373/6	Analysis Batch:	720-68373	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03261006.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 1120			Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 1120				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2,4-Trichlorobenzene	107	109	70 - 130	2	20		
Benzene	94	96	82 - 127	3	20		
Toluene	96	97	83 - 129	1	20		
Ethylbenzene	102	106	86 - 135	4	20		
m-Xylene & p-Xylene	104	108	70 - 142	3	20		
o-Xylene	104	107	89 - 136	3	20		
TBA	92	96	85 - 110	5	20		
Ethanol	83	67	31 - 216	22	20		*
DIPE	93	92	74 - 155	1	20		
TAME	102	102	79 - 129	0	20		
Ethyl tert-butyl ether	93	94	70 - 130	0	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	96	98	70 - 130
4-Bromofluorobenzene	96	98	67 - 130
1,2-Dichloroethane-d4 (Surr)	97	93	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68373

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-68373/7	Analysis Batch:	720-68373	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03261007.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 1152			Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 1152				

LCSD Lab Sample ID:	LCSD 720-68373/8	Analysis Batch:	720-68373	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	03261008.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	10 mL
Date Analyzed:	03/26/2010 1224			Final Weight/Volume:	10 mL
Date Prepared:	03/26/2010 1224				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C6-C12	87	82	70 - 130	6	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	99	101	70 - 130
4-Bromofluorobenzene	102	100	67 - 130
1,2-Dichloroethane-d4 (Surr)	103	100	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Method Blank - Batch: 720-68435

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-68435/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2010 2130
Date Prepared: 03/26/2010 2130

Analysis Batch: 720-68435
Prep Batch: N/A
Units: ug/L

Instrument ID: HP12
Lab File ID: 03261025.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Ethanol	ND		100

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	99	70 - 130
4-Bromofluorobenzene	104	67 - 130
1,2-Dichloroethane-d4 (Surr)	107	67 - 130

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68435

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-68435/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2010 2201
Date Prepared: 03/26/2010 2201

Analysis Batch: 720-68435
Prep Batch: N/A
Units: ug/L

Instrument ID: HP12
Lab File ID: 03261026.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-68435/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2010 2232
Date Prepared: 03/26/2010 2232

Analysis Batch: 720-68435
Prep Batch: N/A
Units: ug/L

Instrument ID: HP12
Lab File ID: 03261027.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ethanol	93	86	31 - 216	8	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	103	102	70 - 130
4-Bromofluorobenzene	110	108	67 - 130
1,2-Dichloroethane-d4 (Surr)	104	103	67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc. Job Number: 720-26779-1

Method Blank - Batch: 720-68478

Method: 200.7 Rev 4.4
Preparation: 200.7

Lab Sample ID: MB 720-68478/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/29/2010 1906
Date Prepared: 03/27/2010 1556

Analysis Batch: 720-68574
Prep Batch: 720-68478
Units: mg/L

Instrument ID: Thermo ICP
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	RL
Lead	ND		0.0050

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-68478

Method: 200.7 Rev 4.4
Preparation: 200.7

LCS Lab Sample ID: LCS 720-68478/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/29/2010 1910
Date Prepared: 03/27/2010 1556

Analysis Batch: 720-68574
Prep Batch: 720-68478
Units: mg/L

Instrument ID: Thermo ICP
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

LCSD Lab Sample ID: LCSD 720-68478/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/29/2010 1914
Date Prepared: 03/27/2010 1556

Analysis Batch: 720-68574
Prep Batch: 720-68478
Units: mg/L

Instrument ID: Thermo ICP
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	100	102	85 - 115	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

San Francisco
1220 Quarry Lane

Pleasanton, CA 94566
phone 925.484.1919 fax 925.600.3002

720-26779

Chain of Custody Record

1231 1582

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jason Duda	Site Contact:	Date:	COC No:
Broadbent and Associates, Inc.	Tel/Fax: 530-566-1400/530-566-1401	Lab Contact: Dimple Sharma	Carrier:	____ of ____ COCs
Address: 1324 Mangrove Ave. Suite 212	Analysis Turnaround Time			Job No.
City/State/Zip: Chico, CA 95926	Calendar (C) or Work Days (W) Std			
(530) 566-1400 Phone	TAT if different from Below ____			SDG No.
(530) 566-1401 FAX	☐ 2 weeks			
Project Name: BP 11266	☐ 1 week			
Site: 1541 Park Street, Alameda, CA	☐ 2 days			
P O # GP09BPNA C001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	GRO by 8260B	BTEX and 5 Oxys by 8260B	EDB, 1,2-DCA, and Ethanol by 8260B	HVOCs by 8260B	Total Lead by 200.7	Sample Specific Notes:
1 MW-1 (03/18/10)	3/18/10	1600		AQ	4		X	X	X	X	X	
2 MW-2 (03/18/10)		1624			4		X	X	X	X	X	
3 MW-3 (03/18/10)		1540			4		X	X	X	X	X	
4 MW-4 (03/18/10)		1415			4		X	X	X	X	X	
5 MW-5 (03/18/10)		1445			4		X	X	X	X	X	
6 MW-6 (03/18/10)		1520			4		X	X	X	X	X	
7 RW-1 (03/18/10)		1658			4		X	X	X	X	X	
8 Trip Blank (3/18/10)												Hold trip Blank

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:
3.5°C

Relinquished by:	Company: BAI	Date/Time: 3/18/10 1230	Received by:	Company: TALWS	Date/Time: 3-19-10 1730
Relinquished by:	Company: TALWS	Date/Time: 3/22/10 1500	Received by:	Company: TASF	Date/Time: 3-22-10 1500
Relinquished by:	Company: TASF	Date/Time: 3-22-10 1800	Received by:	Company: TASF	Date/Time: 3/22/10 - 1800

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc.

Job Number: 720-26779-1

Login Number: 26779

List Source: TestAmerica San Francisco

Creator: Hoang, Julie

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	SEE NCM
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

BROADBENT & ASSOCIATES INC. FIELD PROCEDURES

A.1 QUALITY ASSURANCE/QUALITY CONTROL FIELD PROTOCOLS

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

A.1.1 Water Level & Free-Product Measurement

Prior to ground-water sample collection from each monitoring well, the presence of separate-phase hydrocarbons (SPH or free product, FP) and depth to ground water shall be measured. Depth to ground water will be measured with a standard water level indicator that has been decontaminated prior to its use in accordance with procedures discussed below. Depth to groundwater will be gauged from a saw cut notch at the top of the well casing on each well head. Where FP is suspected, the initial gauging will be done with an oil-water interface probe. Once depth to water has been measured, the first retrieval of a new disposable bailer will be scrutinized for the presence of SPH/FP.

A.1.2 Monitoring Well Purging

Subsequent to measuring depth to ground water and prior to the collection of ground-water samples, purging of standing water within the monitoring will be performed if called for. Consistent with the American Society for Testing and Materials (ASTM) Standard D6452-99, Section 7.1, the well will be purged of approximately three wetted-casing volumes of water, or until the well is dewatered, or until monitored field parameters indicate stabilization. The well will be purged using a pre-cleaned disposable bailer or submersible pump 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. So that the sample collected is representative of formation water, several field parameters will be monitored during the purging process. The sample will not be collected until these parameters (i.e. temperature, pH, and conductivity) have stabilized to within 10% of the previously measured value. If a well is purged dry, the sample should not be collected until the well has recovered to a minimum 50% of its initial volume.

A.1.3 Ground-Water 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 pre-cleaned, new, disposable bailer and transferred into the appropriate, new, laboratory-prepared containers such that no head space or air bubbles are present in the sample container (if appropriate to the analysis). The samples will be properly labeled (i.e. sample identification, sampler initials, date/time of collection, site location, requested analyses), placed in an ice chest with bagged ice or ice substitute, and delivered to the contracted analytical laboratory.

A.1.4 Surface Water Sample Collection

Unless specified otherwise, surface water samples will be collected from mid-depth in the central area of the associated surface water body. Water samples will be collected into appropriate, new, laboratory-prepared containers by dipping the container into the surface water unless the container has a preservative present. If a sample preservative is present, a new, cleaned non-preserved surrogate container will be used to obtain the sample which will then be directly transferred into a new, laboratory-provided, preserved container. Samples will be properly labeled and transported as described above.

A.1.5 Decontamination Protocol

Prior to use in each well, re-usable ground-water sampling equipment (e.g., water level indicator, oil-interface probe, purge pump, etc.) will be decontaminated. Decontamination protocol will include thoroughly cleaning with a solution of Liquinox, rinsing with clean water, and final rinsing with control water (potable water of known quality, distilled, or de-ionized water). Pre-cleaned new disposable bailers and disposable plastic tubing will be dedicated to each individual well.

A.1.6 Chain of Custody Procedures

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 individually responsible for the care and custody of the samples collected until they are properly transferred.

Samples will have unique 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 field sampler.

Transfer of Custody and Shipment

A COC will accompany samples during transfer and shipment. When transferring samples, the individual relinquishing and the individual receiving the samples will each sign, date, and note the time on the COC. This 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 responsible courier. When a shipping courier is utilized, the sample shipment number will be identified on the COC.

A.1.7 Field Records

In addition to sample identification numbers and COC records, Daily Field Report records will be maintained by field staff to provide daily records of significant events, observations, and measurements during field investigations. These documents will contain observed information such as: the personnel present, site conditions, sampling procedures, measurement procedures, calibration records, equipment used, supplies used, 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 file records.

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATIONS

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:	**1Q10 GEO_WELL 11266**
Facility Global ID:	**T0600100207**
Facility Name:	**BP #11266**
File Name:	**GEO_WELL.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**4/26/2010 9:47:14 AM**
Confirmation Number:	**6370260953**

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:	**1Q10 GW Monitoring**
Facility Global ID:	**T0600100207**
Facility Name:	**BP #11266**
File Name:	**11266-720-26779-1.zip**
Organization Name:	**Broadbent & Associates, Inc.**
Username:	**BROADBENT-C**
IP Address:	**67.118.40.90**
Submittal Date/Time:	**4/19/2010 9:40:49 AM**
Confirmation Number:	**4819070279**

VIEW QC REPORT

VIEW DETECTIONS REPORT