

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

This attachment contains the laboratory analytical reports prepared by BC Laboratories, Inc., of Bakersfield, California.



Date of Report: 09/20/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1216140

Invoice ID: B129773

Enclosed are the results of analyses for samples received by the laboratory on 8/27/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form

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Required Fields

Report To: **Battelle MHTS**
 Client: **David Conner**
 Attn: **David Conner**
 Street Address: **505 King Ave.**
 City: **Columbus** State: **OH** Zip: **43201**
 Phone: **(614) 424-5489** Fax: **(614) 458-5489**
 Email Address: **connerd@battelle.org**

Project Description: **JPL**
 Project Code: **3012**
 Sampler (s): **Blaine Tech**

Analysis Requested:
 Nitrite 353.2
 Orthophosphate 365.1
 Chloride, Nitrate, Sulfate
 Hexavalent Chromium 719B
 Perchlorate 314.0
 Total Chromium 200.8
 VOCs EPA 524.2

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-1	8-27-12	1000	GW
-2	MW-20-5		1010	
-3	MW-20-4		1125	
-4	MW-20-3		1210	
-5	MW-20-2		1255	
-6	MW-20-1		1335	
-7	MW-19-5		1455	

Notes: MS/MSD
 CHK BY: DISTRIBUTION
 SUB-OUT

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____

Comments: pay by credit card

Global ID: _____

1. Relinquished By: _____ Date: 8-27-12 Time: 1530
 2. Relinquished By: _____ Date: 8-27-12 Time: 1735
 3. Relinquished By: _____ Date: 8-27-12 Time: 1735

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 1 Of 1

Submission #: 12-16140

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: Opte Thermometer ID: 207 Date/Time 8-27-12
 Temperature: (A) 2.0 °C / (C) 2.2 °C Analyst Init JKW 1740

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C				
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A3	A3	A3	A3	A3	A3			
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: JKW Date/Time: 8/27/12 1740
 A = Actual / C = Corrected

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216140-01	COC Number:	---	Receive Date:	08/27/2012 17:35
	Project Number:	---	Sampling Date:	08/27/2012 10:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TB-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Trip Blank
	<hr/>			
1216140-02	COC Number:	---	Receive Date:	08/27/2012 17:35
	Project Number:	---	Sampling Date:	08/27/2012 10:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-20-5	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216140-03	COC Number:	---	Receive Date:	08/27/2012 17:35
	Project Number:	---	Sampling Date:	08/27/2012 11:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-20-4	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216140-04	COC Number:	---	Receive Date:	08/27/2012 17:35
	Project Number:	---	Sampling Date:	08/27/2012 12:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-20-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216140-05	COC Number:	---	Receive Date:	08/27/2012 17:35
	Project Number:	---	Sampling Date:	08/27/2012 12:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-20-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216140-06	COC Number:	---	Receive Date:	08/27/2012 17:35
	Project Number:	---	Sampling Date:	08/27/2012 13:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-20-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216140-07	COC Number:	---	Receive Date:	08/27/2012 17:35
	Project Number:	---	Sampling Date:	08/27/2012 14:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-19-5	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-01	Client Sample Name: TB-1, 8/27/2012 10:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-01	Client Sample Name: TB-1, 8/27/2012 10:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-01	Client Sample Name: TB-1, 8/27/2012 10:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 03:02	MGC	MS-V5	1	BVH2430

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216140-01	Client Sample Name: TB-1, 8/27/2012 10:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 03:02	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-02	Client Sample Name: MW-20-5, 8/27/2012 10:10:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-02	Client Sample Name: MW-20-5, 8/27/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.36	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	0.84	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-02	Client Sample Name: MW-20-5, 8/27/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	08/31/12	09/01/12	03:24	MGC	MS-V5	1	BVH2430

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216140-02	Client Sample Name: MW-20-5, 8/27/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 03:24	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216140-02	Client Sample Name: MW-20-5, 8/27/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/29/12	08/29/12 15:38	LD1	IC6	1	BVH2412



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216140-02	Client Sample Name: MW-20-5, 8/27/2012 10:10:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.92	ug/L	3.0	0.50	EPA-200.8	0.74	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/28/12	08/28/12 07:46	TDC	KONE-1	1	BVH2204
2	EPA-200.8	08/30/12	08/31/12 13:19	SRM	PE-EL2	1	BVH2440

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-03	Client Sample Name: MW-20-4, 8/27/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-03	Client Sample Name: MW-20-4, 8/27/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-03	Client Sample Name: MW-20-4, 8/27/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	08/31/12	09/01/12	07:53	MGC	MS-V5	1	BVH2430

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216140-03	Client Sample Name: MW-20-4, 8/27/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 07:53	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216140-03	Client Sample Name: MW-20-4, 8/27/2012 11:25:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/29/12	08/29/12 15:52	LD1	IC6	1	BVH2412



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216140-03	Client Sample Name: MW-20-4, 8/27/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.74		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/28/12	08/28/12 07:46	TDC	KONE-1	1	BVH2204
2	EPA-200.8	08/30/12	08/31/12 12:52	SRM	PE-EL2	1	BVH2440



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-04	Client Sample Name: MW-20-3, 8/27/2012 12:10:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-04	Client Sample Name: MW-20-3, 8/27/2012 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.38	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.28	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.50	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	2.8	ug/L	5.0	1.2	EPA-524.2	ND	J	1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	0.56	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-04	Client Sample Name: MW-20-3, 8/27/2012 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	08/31/12	09/01/12	03:46	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216140-04	Client Sample Name: MW-20-3, 8/27/2012 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 03:46	MGC	MS-V5	1	BVH2430



Battelle MHTS
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Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216140-04	Client Sample Name: MW-20-3, 8/27/2012 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/29/12	08/29/12 16:05	LD1	IC6	1	BVH2412



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216140-04	Client Sample Name: MW-20-3, 8/27/2012 12:10:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.59	ug/L	3.0	0.50	EPA-200.8	0.74	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/28/12	08/28/12 07:46	TDC	KONE-1	1	BVH2204
2	EPA-200.8	08/30/12	08/31/12 13:22	SRM	PE-EL2	1	BVH2440



Battelle MHTS
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Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-05	Client Sample Name: MW-20-2, 8/27/2012 12:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.18	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-05	Client Sample Name: MW-20-2, 8/27/2012 12:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.070	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.27	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.1	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-05	Client Sample Name: MW-20-2, 8/27/2012 12:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	08/31/12	09/01/12	04:09	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216140-05	Client Sample Name: MW-20-2, 8/27/2012 12:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 04:09	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216140-05	Client Sample Name: MW-20-2, 8/27/2012 12:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.2	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/29/12	08/29/12 16:18	LD1	IC6	1	BVH2412

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216140-05	Client Sample Name: MW-20-2, 8/27/2012 12:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.74		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/28/12	08/28/12 07:46	TDC	KONE-1	1	BVH2204
2	EPA-200.8	08/30/12	08/31/12 13:25	SRM	PE-EL2	1	BVH2440



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-06 Client Sample Name: MW-20-1, 8/27/2012 1:35:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.26	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-06	Client Sample Name: MW-20-1, 8/27/2012 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.33	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-06	Client Sample Name: MW-20-1, 8/27/2012 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 04:31	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216140-06	Client Sample Name: MW-20-1, 8/27/2012 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 04:31	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216140-06	Client Sample Name: MW-20-1, 8/27/2012 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.6	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/29/12	08/29/12 16:32	LD1	IC6	1	BVH2412



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216140-06	Client Sample Name: MW-20-1, 8/27/2012 1:35:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.74		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/28/12	08/28/12 07:46	TDC	KONE-1	1	BVH2204
2	EPA-200.8	08/30/12	08/31/12 13:28	SRM	PE-EL2	1	BVH2440

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Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-07	Client Sample Name: MW-19-5, 8/27/2012 2:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.34	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-07	Client Sample Name: MW-19-5, 8/27/2012 2:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	1.7	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.22	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216140-07	Client Sample Name: MW-19-5, 8/27/2012 2:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	08/31/12	09/01/12	04:54	MGC	MS-V5	1	BVH2430



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Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216140-07	Client Sample Name: MW-19-5, 8/27/2012 2:55:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 04:54	MGC	MS-V5	1	BVH2430

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Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216140-07	Client Sample Name: MW-19-5, 8/27/2012 2:55:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/29/12	08/29/12 16:45	LD1	IC6	1	BVH2412

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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVH2430						
Benzene	BVH2430-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVH2430-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVH2430-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVH2430-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVH2430-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVH2430-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVH2430-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVH2430-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVH2430-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVH2430-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVH2430-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVH2430-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVH2430-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVH2430-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVH2430-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVH2430-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVH2430-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVH2430-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVH2430-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVH2430-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVH2430-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVH2430-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVH2430-BLK1	ND	ug/L	0.50	0.14	

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Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVH2430						
trans-1,3-Dichloropropene	BVH2430-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVH2430-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVH2430-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVH2430-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVH2430-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVH2430-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVH2430-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVH2430-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVH2430-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVH2430-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVH2430-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVH2430-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVH2430-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVH2430-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVH2430-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVH2430-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVH2430-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVH2430-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVH2430-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVH2430-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVH2430-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVH2430-BLK1	ND	ug/L	10	1.7	

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Project: JPL- GW Monitoring Wells
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Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVH2430						
Methyl ethyl ketone	BVH2430-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVH2430-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVH2430-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVH2430-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVH2430-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVH2430-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVH2430-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVH2430-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVH2430-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVH2430-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVH2430-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVH2430-BLK1	96.1	%	80 - 120 (LCL - UCL)		



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVH2430										
Benzene	BVH2430-BS1	LCS	22.040	25.000	ug/L	88.2		70 - 130		
Bromodichloromethane	BVH2430-BS1	LCS	24.330	25.000	ug/L	97.3		70 - 130		
Chlorobenzene	BVH2430-BS1	LCS	22.720	25.000	ug/L	90.9		70 - 130		
Chloroethane	BVH2430-BS1	LCS	24.770	25.000	ug/L	99.1		70 - 130		
1,4-Dichlorobenzene	BVH2430-BS1	LCS	24.390	25.000	ug/L	97.6		70 - 130		
1,1-Dichloroethane	BVH2430-BS1	LCS	22.970	25.000	ug/L	91.9		70 - 130		
1,1-Dichloroethene	BVH2430-BS1	LCS	24.750	25.000	ug/L	99.0		70 - 130		
Toluene	BVH2430-BS1	LCS	22.530	25.000	ug/L	90.1		70 - 130		
Trichloroethene	BVH2430-BS1	LCS	23.360	25.000	ug/L	93.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVH2430-BS1	LCS	10.100	10.000	ug/L	101		75 - 125		
Toluene-d8 (Surrogate)	BVH2430-BS1	LCS	10.040	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVH2430-BS1	LCS	9.9700	10.000	ug/L	99.7		80 - 120		



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVH2430		Used client sample: Y - Description: MW-20-4, 08/27/2012 11:25								
Benzene	MS	1216140-03	ND	22.200	25.000	ug/L		88.8		70 - 130
	MSD	1216140-03	ND	22.550	25.000	ug/L	1.6	90.2	20	70 - 130
Bromodichloromethane	MS	1216140-03	ND	25.820	25.000	ug/L		103		70 - 130
	MSD	1216140-03	ND	25.960	25.000	ug/L	0.5	104	20	70 - 130
Chlorobenzene	MS	1216140-03	ND	23.060	25.000	ug/L		92.2		70 - 130
	MSD	1216140-03	ND	23.110	25.000	ug/L	0.2	92.4	20	70 - 130
Chloroethane	MS	1216140-03	ND	25.090	25.000	ug/L		100		70 - 130
	MSD	1216140-03	ND	25.230	25.000	ug/L	0.6	101	20	70 - 130
1,4-Dichlorobenzene	MS	1216140-03	ND	25.020	25.000	ug/L		100		70 - 130
	MSD	1216140-03	ND	24.670	25.000	ug/L	1.4	98.7	20	70 - 130
1,1-Dichloroethane	MS	1216140-03	ND	23.270	25.000	ug/L		93.1		70 - 130
	MSD	1216140-03	ND	23.540	25.000	ug/L	1.2	94.2	20	70 - 130
1,1-Dichloroethene	MS	1216140-03	ND	24.850	25.000	ug/L		99.4		70 - 130
	MSD	1216140-03	ND	25.330	25.000	ug/L	1.9	101	20	70 - 130
Toluene	MS	1216140-03	ND	23.290	25.000	ug/L		93.2		70 - 130
	MSD	1216140-03	ND	23.060	25.000	ug/L	1.0	92.2	20	70 - 130
Trichloroethene	MS	1216140-03	ND	23.600	25.000	ug/L		94.4		70 - 130
	MSD	1216140-03	ND	23.800	25.000	ug/L	0.8	95.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216140-03	ND	10.130	10.000	ug/L		101		75 - 125
	MSD	1216140-03	ND	9.9500	10.000	ug/L	1.8	99.5		75 - 125
Toluene-d8 (Surrogate)	MS	1216140-03	ND	10.240	10.000	ug/L		102		80 - 120
	MSD	1216140-03	ND	10.010	10.000	ug/L	2.3	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216140-03	ND	10.090	10.000	ug/L		101		80 - 120
	MSD	1216140-03	ND	9.8600	10.000	ug/L	2.3	98.6		80 - 120

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Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVH2430						
Chloroacetonitrile	BVH2430-BLK1	0	ug/L			
1-Chlorobutane	BVH2430-BLK1	0	ug/L			
1,1-Dichloropropanone	BVH2430-BLK1	0	ug/L			
Methyl acrylate	BVH2430-BLK1	0	ug/L			
Nitrobenzene	BVH2430-BLK1	0	ug/L			
2-Nitropropane	BVH2430-BLK1	0	ug/L			



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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVH2412						
Perchlorate	BVH2412-BLK1	ND	ug/L	4.0	0.81	



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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVH2412										
Perchlorate	BVH2412-BS1	LCS	9.4374	10.000	ug/L	94.4		85	115	



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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVH2412		Used client sample: Y - Description: MW-20-4, 08/27/2012 11:25								
Perchlorate	DUP	1216140-03	ND	ND		ug/L			15	
	MS	1216140-03	ND	9.4908	10.101	ug/L		94.0		80 - 120
	MSD	1216140-03	ND	9.8864	10.101	ug/L	4.1	97.9	15	80 - 120



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Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVH2204						
Hexavalent Chromium	BVH2204-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVH2440						
Total Recoverable Chromium	BVH2440-BLK1	0.73900	ug/L	3.0	0.50	J



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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVH2204										
Hexavalent Chromium	BVH2204-BS1	LCS	0.047092	0.050000	mg/L	94.2		85	115	
QC Batch ID: BVH2440										
Total Recoverable Chromium	BVH2440-BS1	LCS	41.541	40.000	ug/L	104		85	115	



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Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BVH2204		Used client sample: Y - Description: MW-20-5, 08/27/2012 10:10									
Hexavalent Chromium	DUP	1216140-02	ND	ND		mg/L			10		
	MS	1216140-02	ND	0.034648	0.052632	mg/L		65.8		85 - 115	Q03
	MSD	1216140-02	ND	0.034087	0.052632	mg/L	1.6	64.8	10	85 - 115	Q03
QC Batch ID: BVH2440		Used client sample: Y - Description: MW-20-4, 08/27/2012 11:25									
Total Recoverable Chromium	DUP	1216140-03	ND	3.8460		ug/L			20		
	MS	1216140-03	ND	39.829	40.000	ug/L		99.6		70 - 130	
	MSD	1216140-03	ND	42.350	40.000	ug/L	6.1	106	20	70 - 130	

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Reported: 09/20/2012 13:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A40 Initial calibration linearity criteria not met.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 09/20/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1216226

Invoice ID: B130091

Enclosed are the results of analyses for samples received by the laboratory on 8/28/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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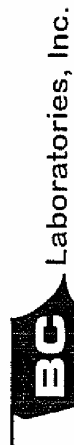


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Chain of Custody Form



Page 1 of 1

Required Fields

Report To: Battelle MHTS
 Client: Battelle MHTS
 Attn: David Conner
 Street Address: 505 King Ave.
 City: Columbus State: OH Zip: 43201
 Phone: (614) 424-5489 Fax: (614) 458-5489
 Email Address: connerd@battelle.org
 Submission #: 12-10224

Project Description: JPL
 Project Code: 3012
 Sampler(s): Blaine Tech

Analysis Requested:
 Nitrite 353.2
 Orthophosphate 365.1
 Chloride, Nitrate, Sulfate
 Hexavalent Chromium 7196
 Perchlorate 314.0
 Total Chromium 200.8
 VOCs EPA 524.2

Sample #	Sample Description	Date	Time	Matrix*	Notes
-1	TB-1	8-28-12	07:30	GW	
-2	MW-19-4		0800		Level IV Validation
-3	MW-19-3		0830		MS/MSD
-4	MW-19-2		0900		Level IV Validation
-5	MW-19-1		0930		
-6	MW-14-5		1115		
-7	MW-14-4		1145		
-8	MW-14-3		1215		
-9	MW-14-2		1300		MS/MSD
-10	MW-14-1		1345		

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____ *Additional Charges May Apply

Global ID: _____
 1. Received By: [Signature] Date: 8-28-12 Time: 1555
 2. Received By: [Signature] Date: 8-28-12 Time: 1830
 3. Received By: [Signature] Date: 8-28-12 Time: 1830

Cost Center:
 1. Relinquished By: [Signature] Date: 8-28-12 Time: 1555
 2. Relinquished By: [Signature] Date: 8-28-12 Time: 1830
 3. Relinquished By: [Signature] Date: 8-28-12 Time: 1830

Comments: pay w/ credit card
 *****PLEASE NOTE WHICH SAMPLES TO USE FOR QC (MS/MSD)*****

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Chain of Custody and Cooler Receipt Form for 1216226 Page 2 of 2

BC LABORATORIES INC.		COOLER RECEIPT FORM		Rev. No. 12	12/30/10	Page 1 of 1				
Submission #: 12-16226										
SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments:										
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.95 Container: Other Thermometer ID: 207		Date/Time 8-28-12		Analyst Init JWW 1935				
Temperature: (A) 1.5 °C / (C) 1.7 °C										
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS								C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A3	A3	A3	A3	A3	A3	A3	A3	A3
QT EPA 413.1, 413.2, 418.1										
PT ODR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

CHK BY: DISTRIBUTION
 SUB-OUT

SHORT HOLDING TIME
 NO₂ NO₃ OP SS
 DO Cl₂ BOD MBAS COT

Comments: _____
 Sample Numbering Completed By: JWW Date/Time: 8/28/12 1935
 A = Actual / C = Corrected

IC:\MyDOCS\Word\Perf\civ\LAB_DOC5\FORM55A\MHEC21



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216226-01	COC Number:	---	Receive Date:	08/28/2012 18:30
	Project Number:	---	Sampling Date:	08/28/2012 07:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TB-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Trip Blank
	<hr/>			
1216226-02	COC Number:	---	Receive Date:	08/28/2012 18:30
	Project Number:	---	Sampling Date:	08/28/2012 08:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-19-4	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216226-03	COC Number:	---	Receive Date:	08/28/2012 18:30
	Project Number:	---	Sampling Date:	08/28/2012 08:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-19-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216226-04	COC Number:	---	Receive Date:	08/28/2012 18:30
	Project Number:	---	Sampling Date:	08/28/2012 09:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-19-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216226-05	COC Number:	---	Receive Date:	08/28/2012 18:30
	Project Number:	---	Sampling Date:	08/28/2012 09:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-19-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216226-06	COC Number:	---	Receive Date:	08/28/2012 18:30
	Project Number:	---	Sampling Date:	08/28/2012 11:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-14-5	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216226-07	COC Number:	---	Receive Date:	08/28/2012 18:30
	Project Number:	---	Sampling Date:	08/28/2012 11:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-14-4	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216226-08	COC Number:	---	Receive Date:	08/28/2012 18:30
	Project Number:	---	Sampling Date:	08/28/2012 12:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-14-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216226-09	COC Number:	---	Receive Date:	08/28/2012 18:30
	Project Number:	---	Sampling Date:	08/28/2012 13:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-14-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216226-10	COC Number:	---	Receive Date:	08/28/2012 18:30
	Project Number:	---	Sampling Date:	08/28/2012 13:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-14-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-01	Client Sample Name: TB-1, 8/28/2012 7:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-01	Client Sample Name: TB-1, 8/28/2012 7:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-01		Client Sample Name: TB-1, 8/28/2012 7:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 16:56	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216226-01	Client Sample Name: TB-1, 8/28/2012 7:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 16:56	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-02		Client Sample Name: MW-19-4, 8/28/2012 8:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.31	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	0.080	ug/L	0.50	0.072	EPA-524.2	ND	J	1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.11	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-02		Client Sample Name: MW-19-4, 8/28/2012 8:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.50	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.20	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-02	Client Sample Name: MW-19-4, 8/28/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/01/12	17:18	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216226-02	Client Sample Name: MW-19-4, 8/28/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 17:18	MGC	MS-V5	1	BVI0013

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216226-02	Client Sample Name: MW-19-4, 8/28/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.6	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/05/12	09/05/12 14:58	LD1	IC6	1	BVI0296

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-03		Client Sample Name: MW-19-3, 8/28/2012 8:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.15	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.090	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-03	Client Sample Name: MW-19-3, 8/28/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.36	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-03		Client Sample Name: MW-19-3, 8/28/2012 8:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/01/12	14:42	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216226-03	Client Sample Name: MW-19-3, 8/28/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 14:42	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216226-03	Client Sample Name: MW-19-3, 8/28/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.0	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/05/12	09/05/12 15:52	LD1	IC6	1	BVI0296

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-04	Client Sample Name: MW-19-2, 8/28/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.53	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	0.11	ug/L	0.50	0.072	EPA-524.2	ND	J	1
1,3-Dichlorobenzene	0.18	ug/L	0.50	0.15	EPA-524.2	ND	J	1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.26	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.29	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-04	Client Sample Name: MW-19-2, 8/28/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.63	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.1	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-04	Client Sample Name: MW-19-2, 8/28/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 17:41	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216226-04	Client Sample Name: MW-19-2, 8/28/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 17:41	MGC	MS-V5	1	BVI0013

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216226-04	Client Sample Name: MW-19-2, 8/28/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.8	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/05/12	09/05/12 16:05	LD1	IC6	1	BVI0296

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-05	Client Sample Name: MW-19-1, 8/28/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-05	Client Sample Name: MW-19-1, 8/28/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-05	Client Sample Name: MW-19-1, 8/28/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 18:03	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216226-05	Client Sample Name: MW-19-1, 8/28/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 18:03	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216226-05	Client Sample Name: MW-19-1, 8/28/2012 9:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/07/12	09/08/12 00:10	LD1	IC6	1	BVI0550



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-06	Client Sample Name: MW-14-5, 8/28/2012 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-06	Client Sample Name: MW-14-5, 8/28/2012 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-06	Client Sample Name: MW-14-5, 8/28/2012 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 18:26	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216226-06	Client Sample Name: MW-14-5, 8/28/2012 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 18:26	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216226-06	Client Sample Name: MW-14-5, 8/28/2012 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/07/12	09/08/12 00:24	LD1	IC6	1	BVI0550

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-07	Client Sample Name: MW-14-4, 8/28/2012 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.26	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	0.10	ug/L	0.50	0.072	EPA-524.2	ND	J	1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	0.080	ug/L	0.50	0.062	EPA-524.2	ND	J	1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.15	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.20	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-07		Client Sample Name: MW-14-4, 8/28/2012 11:45:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.27	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.34	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-07		Client Sample Name: MW-14-4, 8/28/2012 11:45:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/01/12	18:48	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216226-07	Client Sample Name: MW-14-4, 8/28/2012 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 18:48	MGC	MS-V5	1	BVI0013

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216226-07	Client Sample Name: MW-14-4, 8/28/2012 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.4	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/07/12	09/08/12 01:04	LD1	IC6	1	BVI0550

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-08	Client Sample Name: MW-14-3, 8/28/2012 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.51	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	0.10	ug/L	0.50	0.072	EPA-524.2	ND	J	1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.28	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.14	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-08		Client Sample Name: MW-14-3, 8/28/2012 12:15:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.64	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	2.0	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-08	Client Sample Name: MW-14-3, 8/28/2012 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 19:10	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216226-08	Client Sample Name: MW-14-3, 8/28/2012 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 19:10	MGC	MS-V5	1	BVI0013

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216226-08	Client Sample Name: MW-14-3, 8/28/2012 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.7	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/07/12	09/08/12 01:17	LD1	IC6	1	BVI0550

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216226-08	Client Sample Name: MW-14-3, 8/28/2012 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.88	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/29/12	08/29/12 07:32	TDC	KONE-1	1	BVH2377
2	EPA-200.8	09/04/12	09/05/12 01:37	SRM	PE-EL2	1	BVI0057

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-09		Client Sample Name: MW-14-2, 8/28/2012 1:00:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.51	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.14	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.17	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	0.19	ug/L	0.50	0.15	EPA-524.2	ND	J	1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-09	Client Sample Name: MW-14-2, 8/28/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.46	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	4.2	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-09	Client Sample Name: MW-14-2, 8/28/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 19:55	MGC	MS-V5	1	BVI0014

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216226-09	Client Sample Name: MW-14-2, 8/28/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 19:55	MGC	MS-V5	1	BVI0014



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216226-09	Client Sample Name: MW-14-2, 8/28/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.9	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/07/12	09/07/12 23:17	LD1	IC6	1	BVI0550



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216226-09	Client Sample Name: MW-14-2, 8/28/2012 1:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.71	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/29/12	08/29/12 07:32	TDC	KONE-1	1	BVH2377
2	EPA-200.8	09/04/12	09/05/12 00:58	SRM	PE-EL2	1	BVI0057



Battelle MHTS
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Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-10	Client Sample Name: MW-14-1, 8/28/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.51	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.11	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-10	Client Sample Name: MW-14-1, 8/28/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.63	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.38	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	2.8	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216226-10	Client Sample Name: MW-14-1, 8/28/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-524.2	09/01/12	09/01/12 20:18	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216226-10	Client Sample Name: MW-14-1, 8/28/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 20:18	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216226-10	Client Sample Name: MW-14-1, 8/28/2012 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.7	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/05/12	09/06/12 01:28	LD1	IC6	1	BVI0296

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Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216226-10	Client Sample Name: MW-14-1, 8/28/2012 1:45:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.93	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/29/12	08/29/12 07:32	TDC	KONE-1	1	BVH2377
2	EPA-200.8	09/04/12	09/05/12 01:40	SRM	PE-EL2	1	BVI0057

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0013						
Benzene	BVI0013-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0013-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0013-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0013-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0013-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0013-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0013-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0013-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0013-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0013-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0013-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0013-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0013-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0013-BLK1	ND	ug/L	0.50	0.14	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0013						
trans-1,3-Dichloropropene	BVI0013-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0013-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0013-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0013-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0013-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0013-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0013-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0013-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVI0013-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0013-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0013-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0013-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0013-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0013-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0013-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0013-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0013-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0013-BLK1	ND	ug/L	10	1.7	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVI0013

Methyl ethyl ketone	BVI0013-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0013-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0013-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0013-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0013-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0013-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0013-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0013-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0013-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0013-BLK1	103	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0013-BLK1	103	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0013-BLK1	94.7	%	80 - 120 (LCL - UCL)		

QC Batch ID: BVI0014

Benzene	BVI0014-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0014-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0014-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0014-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0014-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0014-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0014-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0014-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0014-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0014-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0014-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0014-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0014-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0014-BLK1	ND	ug/L	0.50	0.24	

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Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0014						
1,2-Dichlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0014-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0014-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0014-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0014-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0014-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0014-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0014-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0014-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0014-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BVI0014-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0014-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0014-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0014-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0014-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0014-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0014-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0014-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0014-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0014-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0014-BLK1	ND	ug/L	0.50	0.13	

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0014						
1,2,3-Trichloropropane	BVI0014-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0014-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0014-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0014-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0014-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0014-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0014-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0014-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0014-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0014-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0014-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVI0014-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0014-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0014-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0014-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0014-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0014-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0014-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0014-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0014-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0014-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0014-BLK1	99.7	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0014-BLK1	97.0	%	80 - 120 (LCL - UCL)		



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Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVI0013										
Benzene	BVI0013-BS1	LCS	21.540	25.000	ug/L	86.2		70 - 130		
Bromodichloromethane	BVI0013-BS1	LCS	21.710	25.000	ug/L	86.8		70 - 130		
Chlorobenzene	BVI0013-BS1	LCS	22.070	25.000	ug/L	88.3		70 - 130		
Chloroethane	BVI0013-BS1	LCS	23.730	25.000	ug/L	94.9		70 - 130		
1,4-Dichlorobenzene	BVI0013-BS1	LCS	23.300	25.000	ug/L	93.2		70 - 130		
1,1-Dichloroethane	BVI0013-BS1	LCS	22.410	25.000	ug/L	89.6		70 - 130		
1,1-Dichloroethene	BVI0013-BS1	LCS	24.270	25.000	ug/L	97.1		70 - 130		
Toluene	BVI0013-BS1	LCS	22.070	25.000	ug/L	88.3		70 - 130		
Trichloroethene	BVI0013-BS1	LCS	23.600	25.000	ug/L	94.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0013-BS1	LCS	10.000	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	BVI0013-BS1	LCS	9.9600	10.000	ug/L	99.6		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0013-BS1	LCS	9.6200	10.000	ug/L	96.2		80 - 120		
QC Batch ID: BVI0014										
Benzene	BVI0014-BS1	LCS	21.220	25.000	ug/L	84.9		70 - 130		
Bromodichloromethane	BVI0014-BS1	LCS	17.770	25.000	ug/L	71.1		70 - 130		
Chlorobenzene	BVI0014-BS1	LCS	22.110	25.000	ug/L	88.4		70 - 130		
Chloroethane	BVI0014-BS1	LCS	23.110	25.000	ug/L	92.4		70 - 130		
1,4-Dichlorobenzene	BVI0014-BS1	LCS	24.280	25.000	ug/L	97.1		70 - 130		
1,1-Dichloroethane	BVI0014-BS1	LCS	21.610	25.000	ug/L	86.4		70 - 130		
1,1-Dichloroethene	BVI0014-BS1	LCS	23.650	25.000	ug/L	94.6		70 - 130		
Toluene	BVI0014-BS1	LCS	21.960	25.000	ug/L	87.8		70 - 130		
Trichloroethene	BVI0014-BS1	LCS	24.590	25.000	ug/L	98.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0014-BS1	LCS	9.9500	10.000	ug/L	99.5		75 - 125		
Toluene-d8 (Surrogate)	BVI0014-BS1	LCS	10.070	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0014-BS1	LCS	9.8900	10.000	ug/L	98.9		80 - 120		



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Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0013		Used client sample: Y - Description: MW-19-3, 08/28/2012 08:30								
Benzene	MS	1216226-03	ND	21.800	25.000	ug/L		87.2		70 - 130
	MSD	1216226-03	ND	21.540	25.000	ug/L	1.2	86.2	20	70 - 130
Bromodichloromethane	MS	1216226-03	ND	23.790	25.000	ug/L		95.2		70 - 130
	MSD	1216226-03	ND	24.140	25.000	ug/L	1.5	96.6	20	70 - 130
Chlorobenzene	MS	1216226-03	ND	22.380	25.000	ug/L		89.5		70 - 130
	MSD	1216226-03	ND	23.120	25.000	ug/L	3.3	92.5	20	70 - 130
Chloroethane	MS	1216226-03	ND	23.820	25.000	ug/L		95.3		70 - 130
	MSD	1216226-03	ND	23.470	25.000	ug/L	1.5	93.9	20	70 - 130
1,4-Dichlorobenzene	MS	1216226-03	ND	24.040	25.000	ug/L		96.2		70 - 130
	MSD	1216226-03	ND	25.730	25.000	ug/L	6.8	103	20	70 - 130
1,1-Dichloroethane	MS	1216226-03	ND	22.360	25.000	ug/L		89.4		70 - 130
	MSD	1216226-03	ND	22.610	25.000	ug/L	1.1	90.4	20	70 - 130
1,1-Dichloroethene	MS	1216226-03	ND	24.290	25.000	ug/L		97.2		70 - 130
	MSD	1216226-03	ND	23.790	25.000	ug/L	2.1	95.2	20	70 - 130
Toluene	MS	1216226-03	ND	22.460	25.000	ug/L		89.8		70 - 130
	MSD	1216226-03	ND	22.250	25.000	ug/L	0.9	89.0	20	70 - 130
Trichloroethene	MS	1216226-03	ND	23.750	25.000	ug/L		95.0		70 - 130
	MSD	1216226-03	ND	23.370	25.000	ug/L	1.6	93.5	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216226-03	ND	10.040	10.000	ug/L		100		75 - 125
	MSD	1216226-03	ND	10.110	10.000	ug/L	0.7	101		75 - 125
Toluene-d8 (Surrogate)	MS	1216226-03	ND	10.020	10.000	ug/L		100		80 - 120
	MSD	1216226-03	ND	10.130	10.000	ug/L	1.1	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216226-03	ND	9.4800	10.000	ug/L		94.8		80 - 120
	MSD	1216226-03	ND	10.180	10.000	ug/L	7.1	102		80 - 120

QC Batch ID: BVI0014		Used client sample: Y - Description: MW-14-2, 08/28/2012 13:00								
Benzene	MS	1216226-09	ND	21.700	25.000	ug/L		86.8		70 - 130
	MSD	1216226-09	ND	21.740	25.000	ug/L	0.2	87.0	20	70 - 130
Bromodichloromethane	MS	1216226-09	ND	20.970	25.000	ug/L		83.9		70 - 130
	MSD	1216226-09	ND	22.660	25.000	ug/L	7.7	90.6	20	70 - 130
Chlorobenzene	MS	1216226-09	ND	22.510	25.000	ug/L		90.0		70 - 130
	MSD	1216226-09	ND	22.680	25.000	ug/L	0.8	90.7	20	70 - 130
Chloroethane	MS	1216226-09	ND	23.010	25.000	ug/L		92.0		70 - 130
	MSD	1216226-09	ND	23.280	25.000	ug/L	1.2	93.1	20	70 - 130
1,4-Dichlorobenzene	MS	1216226-09	ND	24.360	25.000	ug/L		97.4		70 - 130
	MSD	1216226-09	ND	24.710	25.000	ug/L	1.4	98.8	20	70 - 130
1,1-Dichloroethane	MS	1216226-09	0.14000	22.110	25.000	ug/L		87.9		70 - 130
	MSD	1216226-09	0.14000	22.530	25.000	ug/L	1.9	89.6	20	70 - 130

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0014		Used client sample: Y - Description: MW-14-2, 08/28/2012 13:00								
1,1-Dichloroethene	MS	1216226-09	ND	24.110	25.000	ug/L		96.4		70 - 130
	MSD	1216226-09	ND	23.980	25.000	ug/L	0.5	95.9	20	70 - 130
Toluene	MS	1216226-09	ND	22.440	25.000	ug/L		89.8		70 - 130
	MSD	1216226-09	ND	22.590	25.000	ug/L	0.7	90.4	20	70 - 130
Trichloroethene	MS	1216226-09	4.2300	27.410	25.000	ug/L		92.7		70 - 130
	MSD	1216226-09	4.2300	27.380	25.000	ug/L	0.1	92.6	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216226-09	ND	9.8500	10.000	ug/L		98.5		75 - 125
	MSD	1216226-09	ND	9.8600	10.000	ug/L	0.1	98.6		75 - 125
Toluene-d8 (Surrogate)	MS	1216226-09	ND	10.110	10.000	ug/L		101		80 - 120
	MSD	1216226-09	ND	10.130	10.000	ug/L	0.2	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216226-09	ND	9.5600	10.000	ug/L		95.6		80 - 120
	MSD	1216226-09	ND	9.8500	10.000	ug/L	3.0	98.5		80 - 120

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Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVI0013

Chloroacetonitrile	BVI0013-BLK1	0	ug/L			
1-Chlorobutane	BVI0013-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0013-BLK1	0	ug/L			
Methyl acrylate	BVI0013-BLK1	0	ug/L			
Nitrobenzene	BVI0013-BLK1	0	ug/L			
2-Nitropropane	BVI0013-BLK1	0	ug/L			

QC Batch ID: BVI0014

Chloroacetonitrile	BVI0014-BLK1	0	ug/L			
1-Chlorobutane	BVI0014-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0014-BLK1	0	ug/L			
Methyl acrylate	BVI0014-BLK1	0	ug/L			
Nitrobenzene	BVI0014-BLK1	0	ug/L			
2-Nitropropane	BVI0014-BLK1	0	ug/L			



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Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0296						
Perchlorate	BVI0296-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: BVI0550						
Perchlorate	BVI0550-BLK1	ND	ug/L	4.0	0.81	



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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0296										
Perchlorate	BVI0296-BS1	LCS	10.306	10.000	ug/L	103		85	115	
QC Batch ID: BVI0550										
Perchlorate	BVI0550-BS1	LCS	10.188	10.000	ug/L	102		85	115	



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVI0296		Used client sample: Y - Description: MW-19-4, 08/28/2012 08:00								
Perchlorate	DUP	1216226-02	3.6032	3.3897		ug/L	6.1		15	J
	MS	1216226-02	3.6032	12.729	10.101	ug/L		90.3	80 - 120	
	MSD	1216226-02	3.6032	13.013	10.101	ug/L	2.2	93.2	15 80 - 120	
QC Batch ID: BVI0550		Used client sample: Y - Description: MW-14-2, 08/28/2012 13:00								
Perchlorate	DUP	1216226-09	2.9145	3.2056		ug/L	9.5		15	J
	MS	1216226-09	2.9145	12.648	10.101	ug/L		96.4	80 - 120	
	MSD	1216226-09	2.9145	12.020	10.101	ug/L	5.1	90.1	15 80 - 120	

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVH2377						
Hexavalent Chromium	BVH2377-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVI0057						
Total Recoverable Chromium	BVI0057-BLK1	ND	ug/L	3.0	0.50	



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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVH2377											
Hexavalent Chromium	BVH2377-BS1	LCS	0.047164	0.050000	mg/L	94.3		85	115		
QC Batch ID: BVI0057											
Total Recoverable Chromium	BVI0057-BS1	LCS	42.332	40.000	ug/L	106		85	115		



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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVH2377		Used client sample: Y - Description: MW-14-2, 08/28/2012 13:00								
Hexavalent Chromium	DUP	1216226-09	ND	ND		mg/L			10	
	MS	1216226-09	ND	0.049273	0.052632	mg/L		93.6		85 - 115
	MSD	1216226-09	ND	0.050140	0.052632	mg/L	1.7	95.3	10	85 - 115
QC Batch ID: BVI0057		Used client sample: Y - Description: MW-14-2, 08/28/2012 13:00								
Total Recoverable Chromium	DUP	1216226-09	0.71400	0.72000		ug/L	0.8		20	J
	MS	1216226-09	0.71400	38.301	40.000	ug/L		94.0		70 - 130
	MSD	1216226-09	0.71400	39.084	40.000	ug/L	2.0	95.9	20	70 - 130

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Reported: 09/20/2012 11:25
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference



Date of Report: 09/20/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1216317

Invoice ID: B130005

Enclosed are the results of analyses for samples received by the laboratory on 8/29/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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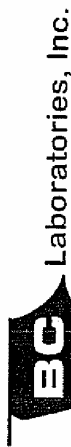


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Chain of Custody Form



Report To: Battelle MHTS
 Client: David Comer
 Street Address: 505 King Ave.
 City: Columbus State: OH Zip: 43201
 Phone: (614) 424-5489 Fax: (614) 458-5489
 Email Address: comerd@battelle.org
 Submission #: 12-110317

Project Description: JPL
 Project Code: 3Q12
 Sampler(s): Blaine Tech

Analysis Requested:
 Nitrite 353.2
 Orthophosphate 365.1
 Chloride, Nitrate, Sulfate
 Hexavalent Chromium 7195
 Perchlorate 314.0
 Total Chromium 200.8
 VOCs EPA 524.2

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-1	8-29-12	0900	GW
-2	MW-18-5		0915	
-3	MW-18-4		0955	
-4	MW-18-3		1030	
-5	DUPE-1-3012		1030	
-6	MW-18-2		1130	
-7	MW-17-4		1250	
-8	MW-17-3		1335	
-9	MW-17-2		1400	

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: * Additional Charges May Apply

Comments: pay w/ credit card
 *****PLEASE NOTATE WHICH SAMPLES TO USE FOR GC (MS/MSD)*****

Global ID: 1216317
 1. Relinquished By: [Signature] Date: 8-29-12 Time: 1530
 2. Relinquished By: [Signature] Date: 8-29-12 Time: 1945
 3. Relinquished By: [Signature] Date: 8-29-12 Time: 1945

Client: Same info for client
 Billing: [Blank]
 State: [Blank]
 Are there any tests with holding times? less than or equal to 48 hours? Yes No
 *Standard Turnaround = 30

Notes:
 CHK BY: DISTRIBUTION
 [Signature]
 SUB-OUT
 SHORT HOLDING TIME
 (Cr+9) NO, NO, OP, SS
 DO, CL, ROD, MBAS, COI

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com



Chain of Custody and Cooler Receipt Form for 1216317 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 1 Of 1

Submission #: 12-16317

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: QPR Thermometer ID: 207
 Temperature: (A) 3.1 °C / (C) 3.3 °C Date/Time 8-29-12
 Analyst Init JNW 1945

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	B	B	
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS			C	C	C	C	C	C	C	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PT PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A3	A3	A3	A3	A3	A3	A3	A3	
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: JNW Date/Time: 8/29/12 2010
 A = Actual / C = Corrected

IC:\MyDOCS\WordPerfect\LAU_DOCS\FORMS\ISAMHEC21



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	
1216317-01	COC Number:	---		08/29/2012 19:45	
	Project Number:	---		Sampling Date:	08/29/2012 09:00
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	TB-1		Lab Matrix:	Water
	Sampled By:	Blaine Tech		Sample Type:	Trip Blank
1216317-02	COC Number:	---		08/29/2012 19:45	
	Project Number:	---		Sampling Date:	08/29/2012 09:15
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-18-5		Lab Matrix:	Water
	Sampled By:	Blaine Tech		Sample Type:	Groundwater
1216317-03	COC Number:	---		08/29/2012 19:45	
	Project Number:	---		Sampling Date:	08/29/2012 09:55
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-18-4		Lab Matrix:	Water
	Sampled By:	Blaine Tech		Sample Type:	Groundwater
1216317-04	COC Number:	---		08/29/2012 19:45	
	Project Number:	---		Sampling Date:	08/29/2012 10:30
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-18-3		Lab Matrix:	Water
	Sampled By:	Blaine Tech		Sample Type:	Groundwater
1216317-05	COC Number:	---		08/29/2012 19:45	
	Project Number:	---		Sampling Date:	08/29/2012 10:30
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	DUPE-1-3Q12		Lab Matrix:	Water
	Sampled By:	Blaine Tech		Sample Type:	Groundwater
1216317-06	COC Number:	---		08/29/2012 19:45	
	Project Number:	---		Sampling Date:	08/29/2012 11:30
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-18-2		Lab Matrix:	Water
	Sampled By:	Blaine Tech		Sample Type:	Groundwater
1216317-07	COC Number:	---		08/29/2012 19:45	
	Project Number:	---		Sampling Date:	08/29/2012 12:50
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-17-4		Lab Matrix:	Water
	Sampled By:	Blaine Tech		Sample Type:	Groundwater



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216317-08	COC Number:	---	Receive Date:	08/29/2012 19:45
	Project Number:	---	Sampling Date:	08/29/2012 13:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-17-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216317-09	COC Number:	---	Receive Date:	08/29/2012 19:45
	Project Number:	---	Sampling Date:	08/29/2012 14:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-17-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-01	Client Sample Name: TB-1, 8/29/2012 9:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-01	Client Sample Name: TB-1, 8/29/2012 9:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-01	Client Sample Name: TB-1, 8/29/2012 9:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	08/31/12	09/01/12	05:16	MGC	MS-V5	1	BVH2430

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216317-01	Client Sample Name: TB-1, 8/29/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 05:16	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-02 **Client Sample Name:** MW-18-5, 8/29/2012 9:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-02 **Client Sample Name:** MW-18-5, 8/29/2012 9:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-02	Client Sample Name: MW-18-5, 8/29/2012 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 05:38	MGC	MS-V5	1	BVH2430

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216317-02	Client Sample Name: MW-18-5, 8/29/2012 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 05:38	MGC	MS-V5	1	BVH2430



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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216317-02	Client Sample Name: MW-18-5, 8/29/2012 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 12:38	LD1	IC6	1	BVI0642

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-03	Client Sample Name: MW-18-4, 8/29/2012 9:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	1.9	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.75	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-03 Client Sample Name: MW-18-4, 8/29/2012 9:55:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.86	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.90	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-03	Client Sample Name: MW-18-4, 8/29/2012 9:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 06:01	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216317-03	Client Sample Name: MW-18-4, 8/29/2012 9:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 06:01	MGC	MS-V5	1	BVH2430

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216317-03	Client Sample Name: MW-18-4, 8/29/2012 9:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	15	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 14:27	LD1	IC6	1	BVI0642



Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216317-03	Client Sample Name: MW-18-4, 8/29/2012 9:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0016	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/29/12	08/29/12 21:36	TMS	KONE-1	1	BVH2459
2	EPA-200.8	09/10/12	09/10/12 15:45	SRM	PE-EL2	1	BVI0594

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	1216317-04	Client Sample Name:	MW-18-3, 8/29/2012 10:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1	
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Carbon tetrachloride	7.4	ug/L	0.50	0.18	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroform	1.6	ug/L	0.50	0.12	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1	

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-04	Client Sample Name: MW-18-3, 8/29/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.15	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.0	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-04	Client Sample Name: MW-18-3, 8/29/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 06:23	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216317-04	Client Sample Name: MW-18-3, 8/29/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 06:23	MGC	MS-V5	1	BVH2430

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216317-04	Client Sample Name: MW-18-3, 8/29/2012 10:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	93	ug/L	20	4.0	EPA-314.0	ND	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 17:20	LD1	IC6	5	BVI0642



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216317-04	Client Sample Name: MW-18-3, 8/29/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0018	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/29/12	08/29/12 21:36	TMS	KONE-1	1	BVH2459
2	EPA-200.8	09/10/12	09/10/12 16:15	SRM	PE-EL2	1	BVI0594

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-05	Client Sample Name: DUPE-1-3Q12, 8/29/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	5.4	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	1.4	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-05	Client Sample Name: DUPE-1-3Q12, 8/29/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.76	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-05	Client Sample Name: DUPE-1-3Q12, 8/29/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 06:46	MGC	MS-V5	1	BVH2430

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216317-05	Client Sample Name: DUPE-1-3Q12, 8/29/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 06:46	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216317-05	Client Sample Name: DUPE-1-3Q12, 8/29/2012 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	91	ug/L	20	4.0	EPA-314.0	ND	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 17:34	LD1	IC6	5	BVI0642

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Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216317-05	Client Sample Name: DUPE-1-3Q12, 8/29/2012 10:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0017	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.1	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/29/12	08/29/12 22:43	TMS	KONE-1	1	BVH2459
2	EPA-200.8	09/10/12	09/10/12 16:18	SRM	PE-EL2	1	BVI0594

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-06	Client Sample Name: MW-18-2, 8/29/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-06	Client Sample Name: MW-18-2, 8/29/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-06	Client Sample Name: MW-18-2, 8/29/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 07:08	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216317-06	Client Sample Name: MW-18-2, 8/29/2012 11:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 07:08	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216317-06	Client Sample Name: MW-18-2, 8/29/2012 11:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 15:21	LD1	IC6	1	BVI0642

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Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216317-06	Client Sample Name: MW-18-2, 8/29/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/29/12	08/29/12 21:36	TMS	KONE-1	1	BVH2459
2	EPA-200.8	09/10/12	09/10/12 16:21	SRM	PE-EL2	1	BVI0594



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-07		Client Sample Name: MW-17-4, 8/29/2012 12:50:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.22	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-07	Client Sample Name: MW-17-4, 8/29/2012 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.59	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-07	Client Sample Name: MW-17-4, 8/29/2012 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-524.2	08/31/12	09/01/12 07:31	MGC	MS-V5	1	BVH2430



Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216317-07	Client Sample Name: MW-17-4, 8/29/2012 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/31/12	09/01/12 07:31	MGC	MS-V5	1	BVH2430

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216317-07	Client Sample Name: MW-17-4, 8/29/2012 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.1	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 15:34	LD1	IC6	1	BVI0642

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216317-07	Client Sample Name: MW-17-4, 8/29/2012 12:50:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.90	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/29/12	08/29/12 21:36	TMS	KONE-1	1	BVH2459
2	EPA-200.8	09/10/12	09/10/12 16:24	SRM	PE-EL2	1	BVI0594



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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-08	Client Sample Name: MW-17-3, 8/29/2012 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.21	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-08	Client Sample Name: MW-17-3, 8/29/2012 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.20	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-08	Client Sample Name: MW-17-3, 8/29/2012 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/01/12	10:07	MGC	MS-V5	1	BVI0013

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505 King Ave.
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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216317-08	Client Sample Name: MW-17-3, 8/29/2012 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 10:07	MGC	MS-V5	1	BVI0013

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216317-08	Client Sample Name: MW-17-3, 8/29/2012 1:35:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	8.1	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 15:47	LD1	IC6	1	BVI0642

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216317-08	Client Sample Name: MW-17-3, 8/29/2012 1:35:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/29/12	08/29/12 21:39	TMS	KONE-1	1	BVH2459
2	EPA-200.8	09/10/12	09/10/12 16:27	SRM	PE-EL2	1	BVI0594

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-09	Client Sample Name: MW-17-2, 8/29/2012 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.14	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-09		Client Sample Name: MW-17-2, 8/29/2012 2:00:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.15	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.12	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216317-09	Client Sample Name: MW-17-2, 8/29/2012 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	A40	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/01/12	10:30	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216317-09	Client Sample Name: MW-17-2, 8/29/2012 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 10:30	MGC	MS-V5	1	BVI0013



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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216317-09	Client Sample Name: MW-17-2, 8/29/2012 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 16:40	LD1	IC6	1	BVI0642



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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216317-09	Client Sample Name: MW-17-2, 8/29/2012 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-7196	08/29/12	08/29/12 21:39	TMS	KONE-1	1	BVH2459	
2	EPA-200.8	09/10/12	09/10/12 16:30	SRM	PE-EL2	1	BVI0594	

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVH2430						
Benzene	BVH2430-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVH2430-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVH2430-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVH2430-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVH2430-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVH2430-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVH2430-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVH2430-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVH2430-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVH2430-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVH2430-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVH2430-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVH2430-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVH2430-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVH2430-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVH2430-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVH2430-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVH2430-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVH2430-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVH2430-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVH2430-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVH2430-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVH2430-BLK1	ND	ug/L	0.50	0.14	

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVH2430						
trans-1,3-Dichloropropene	BVH2430-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVH2430-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVH2430-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVH2430-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVH2430-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVH2430-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVH2430-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVH2430-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVH2430-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVH2430-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVH2430-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVH2430-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVH2430-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVH2430-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVH2430-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVH2430-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVH2430-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVH2430-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVH2430-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVH2430-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVH2430-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVH2430-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVH2430-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVH2430-BLK1	ND	ug/L	10	1.7	

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVH2430

Methyl ethyl ketone	BVH2430-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVH2430-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVH2430-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVH2430-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVH2430-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVH2430-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVH2430-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVH2430-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVH2430-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVH2430-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVH2430-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVH2430-BLK1	96.1	%	80 - 120 (LCL - UCL)		

QC Batch ID: BVI0013

Benzene	BVI0013-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0013-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0013-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0013-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0013-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0013-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0013-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0013-BLK1	ND	ug/L	0.50	0.24	



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0013						
1,2-Dichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0013-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0013-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0013-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0013-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0013-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0013-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BVI0013-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0013-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0013-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0013-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0013-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0013-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0013-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0013-BLK1	ND	ug/L	0.50	0.13	

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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0013						
1,2,3-Trichloropropane	BVI0013-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0013-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0013-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0013-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0013-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0013-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0013-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0013-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0013-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0013-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVI0013-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0013-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0013-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0013-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0013-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0013-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0013-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0013-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0013-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0013-BLK1	103	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0013-BLK1	103	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0013-BLK1	94.7	%	80 - 120 (LCL - UCL)		

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Reported: 09/20/2012 13:39
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVH2430										
Benzene	BVH2430-BS1	LCS	22.040	25.000	ug/L	88.2		70 - 130		
Bromodichloromethane	BVH2430-BS1	LCS	24.330	25.000	ug/L	97.3		70 - 130		
Chlorobenzene	BVH2430-BS1	LCS	22.720	25.000	ug/L	90.9		70 - 130		
Chloroethane	BVH2430-BS1	LCS	24.770	25.000	ug/L	99.1		70 - 130		
1,4-Dichlorobenzene	BVH2430-BS1	LCS	24.390	25.000	ug/L	97.6		70 - 130		
1,1-Dichloroethane	BVH2430-BS1	LCS	22.970	25.000	ug/L	91.9		70 - 130		
1,1-Dichloroethene	BVH2430-BS1	LCS	24.750	25.000	ug/L	99.0		70 - 130		
Toluene	BVH2430-BS1	LCS	22.530	25.000	ug/L	90.1		70 - 130		
Trichloroethene	BVH2430-BS1	LCS	23.360	25.000	ug/L	93.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVH2430-BS1	LCS	10.100	10.000	ug/L	101		75 - 125		
Toluene-d8 (Surrogate)	BVH2430-BS1	LCS	10.040	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVH2430-BS1	LCS	9.9700	10.000	ug/L	99.7		80 - 120		
QC Batch ID: BVI0013										
Benzene	BVI0013-BS1	LCS	21.540	25.000	ug/L	86.2		70 - 130		
Bromodichloromethane	BVI0013-BS1	LCS	21.710	25.000	ug/L	86.8		70 - 130		
Chlorobenzene	BVI0013-BS1	LCS	22.070	25.000	ug/L	88.3		70 - 130		
Chloroethane	BVI0013-BS1	LCS	23.730	25.000	ug/L	94.9		70 - 130		
1,4-Dichlorobenzene	BVI0013-BS1	LCS	23.300	25.000	ug/L	93.2		70 - 130		
1,1-Dichloroethane	BVI0013-BS1	LCS	22.410	25.000	ug/L	89.6		70 - 130		
1,1-Dichloroethene	BVI0013-BS1	LCS	24.270	25.000	ug/L	97.1		70 - 130		
Toluene	BVI0013-BS1	LCS	22.070	25.000	ug/L	88.3		70 - 130		
Trichloroethene	BVI0013-BS1	LCS	23.600	25.000	ug/L	94.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0013-BS1	LCS	10.000	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	BVI0013-BS1	LCS	9.9600	10.000	ug/L	99.6		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0013-BS1	LCS	9.6200	10.000	ug/L	96.2		80 - 120		



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVH2430		Used client sample: Y - Description: MW-20-4, 08/27/2012 11:25								
Benzene	MS	1216140-03	ND	22.200	25.000	ug/L		88.8		70 - 130
	MSD	1216140-03	ND	22.550	25.000	ug/L	1.6	90.2	20	70 - 130
Bromodichloromethane	MS	1216140-03	ND	25.820	25.000	ug/L		103		70 - 130
	MSD	1216140-03	ND	25.960	25.000	ug/L	0.5	104	20	70 - 130
Chlorobenzene	MS	1216140-03	ND	23.060	25.000	ug/L		92.2		70 - 130
	MSD	1216140-03	ND	23.110	25.000	ug/L	0.2	92.4	20	70 - 130
Chloroethane	MS	1216140-03	ND	25.090	25.000	ug/L		100		70 - 130
	MSD	1216140-03	ND	25.230	25.000	ug/L	0.6	101	20	70 - 130
1,4-Dichlorobenzene	MS	1216140-03	ND	25.020	25.000	ug/L		100		70 - 130
	MSD	1216140-03	ND	24.670	25.000	ug/L	1.4	98.7	20	70 - 130
1,1-Dichloroethane	MS	1216140-03	ND	23.270	25.000	ug/L		93.1		70 - 130
	MSD	1216140-03	ND	23.540	25.000	ug/L	1.2	94.2	20	70 - 130
1,1-Dichloroethene	MS	1216140-03	ND	24.850	25.000	ug/L		99.4		70 - 130
	MSD	1216140-03	ND	25.330	25.000	ug/L	1.9	101	20	70 - 130
Toluene	MS	1216140-03	ND	23.290	25.000	ug/L		93.2		70 - 130
	MSD	1216140-03	ND	23.060	25.000	ug/L	1.0	92.2	20	70 - 130
Trichloroethene	MS	1216140-03	ND	23.600	25.000	ug/L		94.4		70 - 130
	MSD	1216140-03	ND	23.800	25.000	ug/L	0.8	95.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216140-03	ND	10.130	10.000	ug/L		101		75 - 125
	MSD	1216140-03	ND	9.9500	10.000	ug/L	1.8	99.5		75 - 125
Toluene-d8 (Surrogate)	MS	1216140-03	ND	10.240	10.000	ug/L		102		80 - 120
	MSD	1216140-03	ND	10.010	10.000	ug/L	2.3	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216140-03	ND	10.090	10.000	ug/L		101		80 - 120
	MSD	1216140-03	ND	9.8600	10.000	ug/L	2.3	98.6		80 - 120
QC Batch ID: BVI0013		Used client sample: Y - Description: MW-19-3, 08/28/2012 08:30								
Benzene	MS	1216226-03	ND	21.800	25.000	ug/L		87.2		70 - 130
	MSD	1216226-03	ND	21.540	25.000	ug/L	1.2	86.2	20	70 - 130
Bromodichloromethane	MS	1216226-03	ND	23.790	25.000	ug/L		95.2		70 - 130
	MSD	1216226-03	ND	24.140	25.000	ug/L	1.5	96.6	20	70 - 130
Chlorobenzene	MS	1216226-03	ND	22.380	25.000	ug/L		89.5		70 - 130
	MSD	1216226-03	ND	23.120	25.000	ug/L	3.3	92.5	20	70 - 130
Chloroethane	MS	1216226-03	ND	23.820	25.000	ug/L		95.3		70 - 130
	MSD	1216226-03	ND	23.470	25.000	ug/L	1.5	93.9	20	70 - 130
1,4-Dichlorobenzene	MS	1216226-03	ND	24.040	25.000	ug/L		96.2		70 - 130
	MSD	1216226-03	ND	25.730	25.000	ug/L	6.8	103	20	70 - 130
1,1-Dichloroethane	MS	1216226-03	ND	22.360	25.000	ug/L		89.4		70 - 130
	MSD	1216226-03	ND	22.610	25.000	ug/L	1.1	90.4	20	70 - 130

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Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0013		Used client sample: Y - Description: MW-19-3, 08/28/2012 08:30								
1,1-Dichloroethene	MS	1216226-03	ND	24.290	25.000	ug/L		97.2		70 - 130
	MSD	1216226-03	ND	23.790	25.000	ug/L	2.1	95.2	20	70 - 130
Toluene	MS	1216226-03	ND	22.460	25.000	ug/L		89.8		70 - 130
	MSD	1216226-03	ND	22.250	25.000	ug/L	0.9	89.0	20	70 - 130
Trichloroethene	MS	1216226-03	ND	23.750	25.000	ug/L		95.0		70 - 130
	MSD	1216226-03	ND	23.370	25.000	ug/L	1.6	93.5	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216226-03	ND	10.040	10.000	ug/L		100		75 - 125
	MSD	1216226-03	ND	10.110	10.000	ug/L	0.7	101		75 - 125
Toluene-d8 (Surrogate)	MS	1216226-03	ND	10.020	10.000	ug/L		100		80 - 120
	MSD	1216226-03	ND	10.130	10.000	ug/L	1.1	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216226-03	ND	9.4800	10.000	ug/L		94.8		80 - 120
	MSD	1216226-03	ND	10.180	10.000	ug/L	7.1	102		80 - 120



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Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVH2430

Chloroacetonitrile	BVH2430-BLK1	0	ug/L			
1-Chlorobutane	BVH2430-BLK1	0	ug/L			
1,1-Dichloropropanone	BVH2430-BLK1	0	ug/L			
Methyl acrylate	BVH2430-BLK1	0	ug/L			
Nitrobenzene	BVH2430-BLK1	0	ug/L			
2-Nitropropane	BVH2430-BLK1	0	ug/L			

QC Batch ID: BVI0013

Chloroacetonitrile	BVI0013-BLK1	0	ug/L			
1-Chlorobutane	BVI0013-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0013-BLK1	0	ug/L			
Methyl acrylate	BVI0013-BLK1	0	ug/L			
Nitrobenzene	BVI0013-BLK1	0	ug/L			
2-Nitropropane	BVI0013-BLK1	0	ug/L			



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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0642						
Perchlorate	BVI0642-BLK1	ND	ug/L	4.0	0.81	



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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0642										
Perchlorate	BVI0642-BS1	LCS	11.301	10.000	ug/L	113		85 - 115		



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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BVI0642		Used client sample: Y - Description: MW-18-5, 08/29/2012 09:15									
Perchlorate	DUP	1216317-02	ND	ND		ug/L				15	
	MS	1216317-02	ND	9.3128	10.101	ug/L		92.2		80 - 120	
	MSD	1216317-02	ND	8.4417	10.101	ug/L	9.8	83.6	15	80 - 120	



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Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVH2459						
Hexavalent Chromium	BVH2459-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVI0594						
Total Recoverable Chromium	BVI0594-BLK1	ND	ug/L	3.0	0.50	



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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVH2459											
Hexavalent Chromium	BVH2459-BS1	LCS	0.047895	0.050000	mg/L	95.8		85	115		
QC Batch ID: BVI0594											
Total Recoverable Chromium	BVI0594-BS1	LCS	40.458	40.000	ug/L	101		85	115		



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Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVH2459		Used client sample: Y - Description: MW-18-4, 08/29/2012 09:55								
Hexavalent Chromium	DUP	1216317-03	0.0015880	0.0016500		mg/L	3.8		10	J
	MS	1216317-03	0.0015880	0.050951	0.052632	mg/L		93.8	85 - 115	
	MSD	1216317-03	0.0015880	0.049036	0.052632	mg/L	3.8	90.2	10	85 - 115
QC Batch ID: BVI0594		Used client sample: Y - Description: MW-18-4, 08/29/2012 09:55								
Total Recoverable Chromium	DUP	216317-03RE'	2.7650	2.5730		ug/L	7.2		20	J
	MS	216317-03RE'	2.7650	43.654	40.000	ug/L		102	70 - 130	
	MSD	216317-03RE'	2.7650	44.510	40.000	ug/L	1.9	104	20	70 - 130

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Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A40 Initial calibration linearity criteria not met.



Date of Report: 09/20/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1216407

Invoice ID: B130007

Enclosed are the results of analyses for samples received by the laboratory on 8/30/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form

Page 1 of 2

Required Fields

Report To: Battelle MHTS
 Client: David Conner
 Attn: David Conner
 Street Address: 505 King Ave.
 City: Columbus State: OH Zip: 43201
 Phone#: (614) 424-5489 Fax#: (614) 458-5489
 Email Address: connerd@battelle.org
 Submission #: 17-10407

Project Description: JPL
 Project Code: 3Q12
 Sampler (s): Blaine Tech

Client: Same as client
 Attn:
 Address:
 City: State: Zip:
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Sample #	Sample Description	Date	Time	Matrix*	Analysis Requested							Notes		
					VOCs EPA 524.2	Total Chromium 200.8	Perchlorate 314.0	Hexavalent Chromium 7196	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2			
-1	TB-1	8-30-12	0630	GW	X									
-2	MW-22-3		0635		X	X	X	X						
-3	MW-22-2		0730		X	X	X	X						
-4	MW-22-1		0805		X	X	X	X						
-5	MW-26-2		0930		X	X	X	X						
-6	MW-26-1		1005		X	X	X	X						
-7	MW-25-5		1120		X	X	X	X						
-8	MW-25-4		1150		X	X	X	X						
-9	MW-25-3		1220		X	X	X	X						
-10	DUPE-2-30212		1220		X	X	X	X						
-11	MW-25-2		1320	Y	X	X	X	X						Level IV Validation

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____ *Additional Charges May Apply

Cost Center: Global JPL
 1. Relinquished By: [Signature] Date: 8-30-12 Time: 1550
 2. Relinquished By: [Signature] Date: 8-30-12 Time: 1605
 3. Relinquished By: [Signature] Date: 8-30-12 Time: 2005

Comments: pay w/credit card
 PLEASE NOTIFY WHICH SAMPLES TO USE FOR QC (MS/MSD).....

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

Chain of Custody Form

Page 2 of 2

Required Fields

Report To: Battelle MHTS
 Client: David Conner
 Attn: David Conner
 Street Address: 505 King Ave.
 City: Columbus State: OH Zip: 43201
 Phone: (614) 424-5489 Fax: (614) 458-5489
 Email Address: connerd@battelle.org
 Submission #: 12-104107

Project Description: JPL
 Project Code: 3Q12
 Sampler(s): Blaine Tech

Analysis Requested:
 VOCs EPA 524.2 X
 Total Chromium 200.8 X
 Perchlorate 314.0 X
 Hexavalent Chromium 7196 X
 Chloride, Nitrate, Sulfate
 Orthophosphate 365.1
 Nitrite 353.2

Billing:
 Client: Save as client
 Attn:
 Address:
 City:
 State:
 Zip:
 Are there any tests with holding times?
 less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Notes:
 CHIK BY DISTRIBUTION
 YIQ
 SUB-OIL
 SHORT HOLDING TIME
 NO₂ NO₃ OF SS
 DO Cl₂ BOD MBAS COT

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other
 Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)
 Lab TAT Approval: *Additional Charges May Apply

Cost Center:
 1. Relinquished By: [Signature] Date: 8-30-12 Time: 1530
 2. Relinquished By: [Signature] Date: 8-30-12 Time: 1530
 3. Relinquished By: [Signature] Date: 8-30-12 Time: 2005

Global ID:
 1. Received By: [Signature] Date: 8-30-12 Time: 1530
 2. Received By: [Signature] Date: 8-30-12 Time: 1530
 3. Received By: [Signature] Date: 8-30-12 Time: 2005

Comments: pay w/ credit card
 PLEASE NOTE WHICH SAMPLES TO USE FOR QC (MSMISD)*****
 MBU Site
 CVA RCRA
 Geotracker 5 File (CA Default)
 Geotracker 2 File
 Other (Specify) _____

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com



Chain of Custody and Cooler Receipt Form for 1216407 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 1 Of 2

Submission #: 12-16407

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: ptpc Thermometer ID: 207 Date/Time: 8/30/12
 Temperature: (A) 3.2 °C / (C) 3.4 °C Analyst Init: KIG 2005

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A.3	A.3	A.3	A.3	A.3	A.4	A.3	A.3	A.3
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: JNW Date/Time: 8/30/12 2020
 A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1216407 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 2 of 2

Submission #: 12-16407

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: ptpe Thermometer ID: 207
 Temperature: (A) 3.2 °C / (C) 3.4 °C Date/Time 8/30/12
 Analyst Init KIQ 2005

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	B	B								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C								
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3								
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: JNW Date/Time: 8/30/12 2020
 A = Actual / C = Corrected

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216407-01	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 06:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TB-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Trip Blank
1216407-02	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 06:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-22-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
1216407-03	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 07:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-22-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
1216407-04	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 08:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-22-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
1216407-05	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 09:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-26-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
1216407-06	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 10:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-26-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
1216407-07	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 11:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-25-5	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216407-08	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 11:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-25-4	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216407-09	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 12:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-25-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216407-10	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 12:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUPE-2-3Q12	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216407-11	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 13:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-25-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216407-12	COC Number:	---	Receive Date:	08/30/2012 20:05
	Project Number:	---	Sampling Date:	08/30/2012 13:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-25-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-01	Client Sample Name: TB-1, 8/30/2012 6:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-01	Client Sample Name: TB-1, 8/30/2012 6:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-01	Client Sample Name: TB-1, 8/30/2012 6:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 22:32	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-01	Client Sample Name: TB-1, 8/30/2012 6:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 22:32	MGC	MS-V5	1	BVI0013

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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-02 Client Sample Name: MW-22-3, 8/30/2012 6:55:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.14	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-02	Client Sample Name: MW-22-3, 8/30/2012 6:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.11	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-02	Client Sample Name: MW-22-3, 8/30/2012 6:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 22:55	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-02	Client Sample Name: MW-22-3, 8/30/2012 6:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 22:55	MGC	MS-V5	1	BVI0013



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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216407-02	Client Sample Name: MW-22-3, 8/30/2012 6:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.8	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 20:27	LD1	IC6	1	BVI0644

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Battelle MHTS
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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216407-02	Client Sample Name: MW-22-3, 8/30/2012 6:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0018	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	0.51	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/30/12	08/31/12 00:01	TDC	KONE-1	1	BVI0141
2	EPA-200.8	09/11/12	09/11/12 18:25	SRM	PE-EL2	1	BVI0689

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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-03	Client Sample Name: MW-22-2, 8/30/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.15	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-03	Client Sample Name: MW-22-2, 8/30/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.14	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.18	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-03	Client Sample Name: MW-22-2, 8/30/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 23:17	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-03	Client Sample Name: MW-22-2, 8/30/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 23:17	MGC	MS-V5	1	BVI0013

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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216407-03	Client Sample Name: MW-22-2, 8/30/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 20:40	LD1	IC6	1	BVI0644

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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216407-03	Client Sample Name: MW-22-2, 8/30/2012 7:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0014	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	1.0	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/30/12	08/31/12 00:01	TDC	KONE-1	1	BVI0141
2	EPA-200.8	09/11/12	09/12/12 12:31	SRM	PE-EL2	1	BVI0695

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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-04 **Client Sample Name:** MW-22-1, 8/30/2012 8:05:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.28	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.23	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-04	Client Sample Name: MW-22-1, 8/30/2012 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.55	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.49	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-04		Client Sample Name: MW-22-1, 8/30/2012 8:05:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/01/12	23:39	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-04	Client Sample Name: MW-22-1, 8/30/2012 8:05:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/01/12 23:39	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216407-04	Client Sample Name: MW-22-1, 8/30/2012 8:05:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.9	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 20:53	LD1	IC6	1	BVI0644



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216407-04	Client Sample Name: MW-22-1, 8/30/2012 8:05:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.62	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/30/12	08/31/12 00:01	TDC	KONE-1	1	BVI0141
2	EPA-200.8	09/11/12	09/12/12 12:49	SRM	PE-EL2	1	BVI0695



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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-05	Client Sample Name: MW-26-2, 8/30/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
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Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-05	Client Sample Name: MW-26-2, 8/30/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-05	Client Sample Name: MW-26-2, 8/30/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/02/12	00:02	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-05	Client Sample Name: MW-26-2, 8/30/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/02/12 00:02	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216407-05	Client Sample Name: MW-26-2, 8/30/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 21:06	LD1	IC6	1	BVI0644

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Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216407-05	Client Sample Name: MW-26-2, 8/30/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/30/12	08/31/12 00:01	TDC	KONE-1	1	BVI0141
2	EPA-200.8	09/11/12	09/12/12 13:06	SRM	PE-EL2	1	BVI0695



Battelle MHTS
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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-06	Client Sample Name: MW-26-1, 8/30/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.29	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-06	Client Sample Name: MW-26-1, 8/30/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.43	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.22	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-06	Client Sample Name: MW-26-1, 8/30/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/02/12 02:40	MGC	MS-V5	1	BVI0013

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-06	Client Sample Name: MW-26-1, 8/30/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/02/12 02:40	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216407-06	Client Sample Name: MW-26-1, 8/30/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.4	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 21:20	LD1	IC6	1	BVI0644



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216407-06	Client Sample Name: MW-26-1, 8/30/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/30/12	08/31/12 00:01	TDC	KONE-1	1	BVI0141
2	EPA-200.8	09/11/12	09/12/12 13:10	SRM	PE-EL2	1	BVI0695



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-07	Client Sample Name: MW-25-5, 8/30/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-07	Client Sample Name: MW-25-5, 8/30/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-07	Client Sample Name: MW-25-5, 8/30/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/02/12	03:02	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-07	Client Sample Name: MW-25-5, 8/30/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/02/12 03:02	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216407-07	Client Sample Name: MW-25-5, 8/30/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 22:00	LD1	IC6	1	BVI0644

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216407-07	Client Sample Name: MW-25-5, 8/30/2012 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/30/12	08/31/12 00:08	TDC	KONE-1	1	BVI0141
2	EPA-200.8	09/11/12	09/12/12 13:13	SRM	PE-EL2	1	BVI0695

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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-08	Client Sample Name: MW-25-4, 8/30/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-08	Client Sample Name: MW-25-4, 8/30/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-08	Client Sample Name: MW-25-4, 8/30/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/02/12	03:25	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-08	Client Sample Name: MW-25-4, 8/30/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/02/12 03:25	MGC	MS-V5	1	BVI0013



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216407-08	Client Sample Name: MW-25-4, 8/30/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	9.3	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 22:13	LD1	IC6	1	BVI0644

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216407-08	Client Sample Name: MW-25-4, 8/30/2012 11:50:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/30/12	08/31/12 00:08	TDC	KONE-1	1	BVI0141
2	EPA-200.8	09/11/12	09/12/12 13:16	SRM	PE-EL2	1	BVI0695



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-09	Client Sample Name: MW-25-3, 8/30/2012 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.41	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-09	Client Sample Name: MW-25-3, 8/30/2012 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-09	Client Sample Name: MW-25-3, 8/30/2012 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/02/12	03:47	MGC	MS-V5	1	BVI0013

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-09	Client Sample Name: MW-25-3, 8/30/2012 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/02/12 03:47	MGC	MS-V5	1	BVI0013



Battelle MHTS
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Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216407-09	Client Sample Name: MW-25-3, 8/30/2012 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	11	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 22:26	LD1	IC6	1	BVI0644

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Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216407-09	Client Sample Name: MW-25-3, 8/30/2012 12:20:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0031	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	3.2	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/30/12	08/31/12 00:08	TDC	KONE-1	1	BVI0141
2	EPA-200.8	09/11/12	09/12/12 13:19	SRM	PE-EL2	1	BVI0695



Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-10	Client Sample Name: DUPE-2-3Q12, 8/30/2012 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.40	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-10	Client Sample Name: DUPE-2-3Q12, 8/30/2012 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-10	Client Sample Name: DUPE-2-3Q12, 8/30/2012 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/02/12	04:10	MGC	MS-V5	1	BV10014



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-10	Client Sample Name: DUPE-2-3Q12, 8/30/2012 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/02/12 04:10	MGC	MS-V5	1	BVI0014



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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216407-10	Client Sample Name: DUPE-2-3Q12, 8/30/2012 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	11	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 22:40	LD1	IC6	1	BVI0644

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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216407-10	Client Sample Name: DUPE-2-3Q12, 8/30/2012 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0030	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	3.2	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/30/12	08/31/12 00:08	TDC	KONE-1	1	BVI0141
2	EPA-200.8	09/11/12	09/12/12 13:22	SRM	PE-EL2	1	BVI0695



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505 King Ave.
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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-11	Client Sample Name: MW-25-2, 8/30/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-11		Client Sample Name: MW-25-2, 8/30/2012 1:20:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.12	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-11	Client Sample Name: MW-25-2, 8/30/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/01/12	09/02/12	04:32	MGC	MS-V5	1	BV10014

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-11	Client Sample Name: MW-25-2, 8/30/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/02/12 04:32	MGC	MS-V5	1	BVI0014



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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216407-11	Client Sample Name: MW-25-2, 8/30/2012 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	17	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 22:53	LD1	IC6	1	BVI0644



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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216407-11	Client Sample Name: MW-25-2, 8/30/2012 1:20:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0019	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/30/12	08/31/12 00:08	TDC	KONE-1	1	BVI0142
2	EPA-200.8	09/11/12	09/12/12 13:25	SRM	PE-EL2	1	BVI0695

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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-12	Client Sample Name: MW-25-1, 8/30/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.39	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-12	Client Sample Name: MW-25-1, 8/30/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.8	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216407-12	Client Sample Name: MW-25-1, 8/30/2012 1:50:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/02/12 04:54	MGC	MS-V5	1	BVI0014



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216407-12	Client Sample Name: MW-25-1, 8/30/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/01/12	09/02/12 04:54	MGC	MS-V5	1	BVI0014



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216407-12	Client Sample Name: MW-25-1, 8/30/2012 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	12	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/10/12	09/10/12 23:06	LD1	IC6	1	BVI0643



Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216407-12	Client Sample Name: MW-25-1, 8/30/2012 1:50:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/30/12	08/31/12 00:10	TDC	KONE-1	1	BVI0142
2	EPA-200.8	09/11/12	09/12/12 13:28	SRM	PE-EL2	1	BVI0695



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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0013						
Benzene	BVI0013-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0013-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0013-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0013-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0013-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0013-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0013-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0013-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0013-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0013-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0013-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0013-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0013-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0013-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0013-BLK1	ND	ug/L	0.50	0.14	

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505 King Ave.
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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0013						
trans-1,3-Dichloropropene	BVI0013-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0013-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0013-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0013-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0013-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0013-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2-Tetrachloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0013-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0013-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0013-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0013-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVI0013-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0013-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0013-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0013-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0013-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0013-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0013-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0013-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0013-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0013-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0013-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0013-BLK1	ND	ug/L	10	1.7	

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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVI0013

Methyl ethyl ketone	BVI0013-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0013-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0013-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0013-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0013-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0013-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0013-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0013-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0013-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0013-BLK1	103	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0013-BLK1	103	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0013-BLK1	94.7	%	80 - 120 (LCL - UCL)		

QC Batch ID: BVI0014

Benzene	BVI0014-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0014-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0014-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0014-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0014-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0014-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0014-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0014-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0014-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0014-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0014-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0014-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0014-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0014-BLK1	ND	ug/L	0.50	0.24	

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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0014						
1,2-Dichlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0014-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0014-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0014-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0014-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0014-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0014-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0014-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0014-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0014-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BVI0014-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0014-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0014-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0014-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0014-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0014-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0014-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0014-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0014-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0014-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0014-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0014-BLK1	ND	ug/L	0.50	0.13	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0014						
1,2,3-Trichloropropane	BVI0014-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0014-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0014-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0014-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0014-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0014-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0014-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0014-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0014-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0014-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0014-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0014-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0014-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVI0014-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0014-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0014-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0014-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0014-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0014-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0014-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0014-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0014-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0014-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0014-BLK1	99.7	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0014-BLK1	97.0	%	80 - 120 (LCL - UCL)		

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVI0013										
Benzene	BVI0013-BS1	LCS	21.540	25.000	ug/L	86.2		70 - 130		
Bromodichloromethane	BVI0013-BS1	LCS	21.710	25.000	ug/L	86.8		70 - 130		
Chlorobenzene	BVI0013-BS1	LCS	22.070	25.000	ug/L	88.3		70 - 130		
Chloroethane	BVI0013-BS1	LCS	23.730	25.000	ug/L	94.9		70 - 130		
1,4-Dichlorobenzene	BVI0013-BS1	LCS	23.300	25.000	ug/L	93.2		70 - 130		
1,1-Dichloroethane	BVI0013-BS1	LCS	22.410	25.000	ug/L	89.6		70 - 130		
1,1-Dichloroethene	BVI0013-BS1	LCS	24.270	25.000	ug/L	97.1		70 - 130		
Toluene	BVI0013-BS1	LCS	22.070	25.000	ug/L	88.3		70 - 130		
Trichloroethene	BVI0013-BS1	LCS	23.600	25.000	ug/L	94.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0013-BS1	LCS	10.000	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	BVI0013-BS1	LCS	9.9600	10.000	ug/L	99.6		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0013-BS1	LCS	9.6200	10.000	ug/L	96.2		80 - 120		
QC Batch ID: BVI0014										
Benzene	BVI0014-BS1	LCS	21.220	25.000	ug/L	84.9		70 - 130		
Bromodichloromethane	BVI0014-BS1	LCS	17.770	25.000	ug/L	71.1		70 - 130		
Chlorobenzene	BVI0014-BS1	LCS	22.110	25.000	ug/L	88.4		70 - 130		
Chloroethane	BVI0014-BS1	LCS	23.110	25.000	ug/L	92.4		70 - 130		
1,4-Dichlorobenzene	BVI0014-BS1	LCS	24.280	25.000	ug/L	97.1		70 - 130		
1,1-Dichloroethane	BVI0014-BS1	LCS	21.610	25.000	ug/L	86.4		70 - 130		
1,1-Dichloroethene	BVI0014-BS1	LCS	23.650	25.000	ug/L	94.6		70 - 130		
Toluene	BVI0014-BS1	LCS	21.960	25.000	ug/L	87.8		70 - 130		
Trichloroethene	BVI0014-BS1	LCS	24.590	25.000	ug/L	98.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0014-BS1	LCS	9.9500	10.000	ug/L	99.5		75 - 125		
Toluene-d8 (Surrogate)	BVI0014-BS1	LCS	10.070	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0014-BS1	LCS	9.8900	10.000	ug/L	98.9		80 - 120		



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0013		Used client sample: Y - Description: MW-19-3, 08/28/2012 08:30								
Benzene	MS	1216226-03	ND	21.800	25.000	ug/L		87.2		70 - 130
	MSD	1216226-03	ND	21.540	25.000	ug/L	1.2	86.2	20	70 - 130
Bromodichloromethane	MS	1216226-03	ND	23.790	25.000	ug/L		95.2		70 - 130
	MSD	1216226-03	ND	24.140	25.000	ug/L	1.5	96.6	20	70 - 130
Chlorobenzene	MS	1216226-03	ND	22.380	25.000	ug/L		89.5		70 - 130
	MSD	1216226-03	ND	23.120	25.000	ug/L	3.3	92.5	20	70 - 130
Chloroethane	MS	1216226-03	ND	23.820	25.000	ug/L		95.3		70 - 130
	MSD	1216226-03	ND	23.470	25.000	ug/L	1.5	93.9	20	70 - 130
1,4-Dichlorobenzene	MS	1216226-03	ND	24.040	25.000	ug/L		96.2		70 - 130
	MSD	1216226-03	ND	25.730	25.000	ug/L	6.8	103	20	70 - 130
1,1-Dichloroethane	MS	1216226-03	ND	22.360	25.000	ug/L		89.4		70 - 130
	MSD	1216226-03	ND	22.610	25.000	ug/L	1.1	90.4	20	70 - 130
1,1-Dichloroethene	MS	1216226-03	ND	24.290	25.000	ug/L		97.2		70 - 130
	MSD	1216226-03	ND	23.790	25.000	ug/L	2.1	95.2	20	70 - 130
Toluene	MS	1216226-03	ND	22.460	25.000	ug/L		89.8		70 - 130
	MSD	1216226-03	ND	22.250	25.000	ug/L	0.9	89.0	20	70 - 130
Trichloroethene	MS	1216226-03	ND	23.750	25.000	ug/L		95.0		70 - 130
	MSD	1216226-03	ND	23.370	25.000	ug/L	1.6	93.5	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216226-03	ND	10.040	10.000	ug/L		100		75 - 125
	MSD	1216226-03	ND	10.110	10.000	ug/L	0.7	101		75 - 125
Toluene-d8 (Surrogate)	MS	1216226-03	ND	10.020	10.000	ug/L		100		80 - 120
	MSD	1216226-03	ND	10.130	10.000	ug/L	1.1	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216226-03	ND	9.4800	10.000	ug/L		94.8		80 - 120
	MSD	1216226-03	ND	10.180	10.000	ug/L	7.1	102		80 - 120
QC Batch ID: BVI0014		Used client sample: Y - Description: MW-14-2, 08/28/2012 13:00								
Benzene	MS	1216226-09	ND	21.700	25.000	ug/L		86.8		70 - 130
	MSD	1216226-09	ND	21.740	25.000	ug/L	0.2	87.0	20	70 - 130
Bromodichloromethane	MS	1216226-09	ND	20.970	25.000	ug/L		83.9		70 - 130
	MSD	1216226-09	ND	22.660	25.000	ug/L	7.7	90.6	20	70 - 130
Chlorobenzene	MS	1216226-09	ND	22.510	25.000	ug/L		90.0		70 - 130
	MSD	1216226-09	ND	22.680	25.000	ug/L	0.8	90.7	20	70 - 130
Chloroethane	MS	1216226-09	ND	23.010	25.000	ug/L		92.0		70 - 130
	MSD	1216226-09	ND	23.280	25.000	ug/L	1.2	93.1	20	70 - 130
1,4-Dichlorobenzene	MS	1216226-09	ND	24.360	25.000	ug/L		97.4		70 - 130
	MSD	1216226-09	ND	24.710	25.000	ug/L	1.4	98.8	20	70 - 130
1,1-Dichloroethane	MS	1216226-09	0.14000	22.110	25.000	ug/L		87.9		70 - 130
	MSD	1216226-09	0.14000	22.530	25.000	ug/L	1.9	89.6	20	70 - 130

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0014		Used client sample: Y - Description: MW-14-2, 08/28/2012 13:00								
1,1-Dichloroethene	MS	1216226-09	ND	24.110	25.000	ug/L		96.4		70 - 130
	MSD	1216226-09	ND	23.980	25.000	ug/L	0.5	95.9	20	70 - 130
Toluene	MS	1216226-09	ND	22.440	25.000	ug/L		89.8		70 - 130
	MSD	1216226-09	ND	22.590	25.000	ug/L	0.7	90.4	20	70 - 130
Trichloroethene	MS	1216226-09	4.2300	27.410	25.000	ug/L		92.7		70 - 130
	MSD	1216226-09	4.2300	27.380	25.000	ug/L	0.1	92.6	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216226-09	ND	9.8500	10.000	ug/L		98.5		75 - 125
	MSD	1216226-09	ND	9.8600	10.000	ug/L	0.1	98.6		75 - 125
Toluene-d8 (Surrogate)	MS	1216226-09	ND	10.110	10.000	ug/L		101		80 - 120
	MSD	1216226-09	ND	10.130	10.000	ug/L	0.2	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216226-09	ND	9.5600	10.000	ug/L		95.6		80 - 120
	MSD	1216226-09	ND	9.8500	10.000	ug/L	3.0	98.5		80 - 120



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Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0013						
Chloroacetonitrile	BVI0013-BLK1	0	ug/L			
1-Chlorobutane	BVI0013-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0013-BLK1	0	ug/L			
Methyl acrylate	BVI0013-BLK1	0	ug/L			
Nitrobenzene	BVI0013-BLK1	0	ug/L			
2-Nitropropane	BVI0013-BLK1	0	ug/L			
QC Batch ID: BVI0014						
Chloroacetonitrile	BVI0014-BLK1	0	ug/L			
1-Chlorobutane	BVI0014-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0014-BLK1	0	ug/L			
Methyl acrylate	BVI0014-BLK1	0	ug/L			
Nitrobenzene	BVI0014-BLK1	0	ug/L			
2-Nitropropane	BVI0014-BLK1	0	ug/L			



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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0643						
Perchlorate	BVI0643-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: BVI0644						
Perchlorate	BVI0644-BLK1	ND	ug/L	4.0	0.81	



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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVI0643											
Perchlorate	BVI0643-BS1	LCS	11.360	10.000	ug/L	114		85	115		
QC Batch ID: BVI0644											
Perchlorate	BVI0644-BS1	LCS	10.978	10.000	ug/L	110		85	115		



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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0643		Used client sample: N								
Perchlorate	DUP	1216897-01	ND	ND		ug/L			15	
	MS	1216897-01	ND	10.590	10.101	ug/L		105		80 - 120
	MSD	1216897-01	ND	10.394	10.101	ug/L	1.9	103	15	80 - 120
QC Batch ID: BVI0644		Used client sample: Y - Description: MW-22-3, 08/30/2012 06:55								
Perchlorate	DUP	1216407-02	3.8084	4.0967		ug/L	7.3		15	
	MS	1216407-02	3.8084	15.385	10.101	ug/L		115		80 - 120
	MSD	1216407-02	3.8084	15.620	10.101	ug/L	1.5	117	15	80 - 120



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Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0141						
Hexavalent Chromium	BVI0141-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVI0142						
Hexavalent Chromium	BVI0142-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVI0689						
Total Recoverable Chromium	BVI0689-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BVI0695						
Total Recoverable Chromium	BVI0695-BLK1	ND	ug/L	3.0	0.50	



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Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0141										
Hexavalent Chromium	BVI0141-BS1	LCS	0.046795	0.050000	mg/L	93.6		85	115	
QC Batch ID: BVI0142										
Hexavalent Chromium	BVI0142-BS1	LCS	0.048274	0.050000	mg/L	96.5		85	115	
QC Batch ID: BVI0689										
Total Recoverable Chromium	BVI0689-BS1	LCS	39.845	40.000	ug/L	99.6		85	115	
QC Batch ID: BVI0695										
Total Recoverable Chromium	BVI0695-BS1	LCS	43.863	40.000	ug/L	110		85	115	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0141		Used client sample: Y - Description: MW-22-3, 08/30/2012 06:55								
Hexavalent Chromium	DUP	1216407-02	0.0017700	0.0018340		mg/L	3.6		10	J
	MS	1216407-02	0.0017700	0.052805	0.052632	mg/L		97.0	85 - 115	
	MSD	1216407-02	0.0017700	0.053257	0.052632	mg/L	0.9	97.8	10	85 - 115
QC Batch ID: BVI0142		Used client sample: Y - Description: MW-25-2, 08/30/2012 13:20								
Hexavalent Chromium	DUP	1216407-11	0.0018930	0.0018260		mg/L	3.6		10	J
	MS	1216407-11	0.0018930	0.051132	0.052632	mg/L		93.6	85 - 115	
	MSD	1216407-11	0.0018930	0.050649	0.052632	mg/L	0.9	92.6	10	85 - 115
QC Batch ID: BVI0689		Used client sample: N								
Total Recoverable Chromium	DUP	1216394-01	ND	ND		ug/L			20	
	MS	1216394-01	ND	37.881	40.000	ug/L		94.7	70 - 130	
	MSD	1216394-01	ND	39.182	40.000	ug/L	3.4	98.0	20	70 - 130
QC Batch ID: BVI0695		Used client sample: Y - Description: MW-22-2, 08/30/2012 07:30								
Total Recoverable Chromium	DUP	1216407-03	1.0070	1.2890		ug/L	24.6		20	J,A02
	MS	1216407-03	1.0070	41.564	40.000	ug/L		101	70 - 130	
	MSD	1216407-03	1.0070	41.704	40.000	ug/L	0.3	102	20	70 - 130

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Columbus, OH 43201

Reported: 09/20/2012 13:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A02 The difference between duplicate readings is less than the PQL.



Date of Report: 09/20/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1216488

Invoice ID: B130033

Enclosed are the results of analyses for samples received by the laboratory on 8/31/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form

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Report To: Battelle MHTS
Client: David Conner
Attn: David Conner
Street Address: 505 King Ave.
City: Columbus **State:** OH **Zip:** 43201
Phone: (614) 424-5489 **Fax:** (614) 458-5489
Email Address: connerd@battelle.org
Submission #: 12-10488

Project Description: JPL
Project Code: 3012
Sampler (s): Blaine Tech

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)
Lab TAT Approval: _____ * Additional Charges May Apply

Comments: pay w/ credit card
 *****PLEASE NOTE WHICH SAMPLES TO USE FOR QC (MSMSD)*****

Sample #	Sample Description	Date	Time	Matrix*	VOCs EPA 524.2	Total Chromium 200.8	Perchlorate 314.0	Hexavalent Chromium 7198	Chloride, Nitrate, Sulfate 300	Orthophosphate 365.1	Nitrite 353.2
-1	TR-1	8-31-12	0800	GW	X						
-2	MA-11-4		0835		X	X	X	X			
-3	MA-11-3		0905		X	X	X	X			
-4	DUPE-3-3012		0905		X	X	X	X			
-5	MA-11-2		1015		X	X	X	X			
-6	MA-11-1		1045	↓	X	X	X	X			

Notes:
 CHIK BY DISTRIBUTION
 SUBMITTING
 SUB-OUT
 SHORT TURNING TIME
 (G-16) (NO₂) (OP) SS
 DU Cl₂ BOD MIBAS COT

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)
Lab TAT Approval: _____ * Additional Charges May Apply

Cost Center:
 1. Relinquished By: [Signature] Date: 8-31-12 Time: 1115
 2. Relinquished By: [Signature] Date: 8-31-12 Time: 1655
 3. Relinquished By: [Signature] Date: 8-31-12 Time: 1055

Global/ID:
 1. Received By: [Signature] Date: 8-31-12 Time: 1120
 2. Received By: [Signature] Date: 8-31-12 Time: 1055
 3. Received By: [Signature] Date: 8-31-12 Time: 1055

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com



BC LABORATORIES INC.		COOLER RECEIPT FORM		Rev. No. 12	12/30/10	Page 1	Of 1			
Submission #: 12-104188										
SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments:										
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.95 Container: Q412 Thermometer ID: 207		Date/Time: 8-31-12		Analyst Init: JNW 11655				
Temperature: (A) 0.7 °C / (C) 0.9 °C										
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C				
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A(1)									
40ml VOA VIAL		A.3	A.3	A.3	A.3	A.3				
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCH VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: KIQ Date/Time: 8/31/12 1725
 A = Actual / C = Corrected

BC:\MyDOCS\WordPerfect\LAB DOCS\FORMS\5AM\REC21



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216488-01	COC Number:	---	Receive Date:	08/31/2012 16:55
	Project Number:	---	Sampling Date:	08/31/2012 08:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TB-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Trip Blank
	<hr/>			
1216488-02	COC Number:	---	Receive Date:	08/31/2012 16:55
	Project Number:	---	Sampling Date:	08/31/2012 08:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-11-4	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216488-03	COC Number:	---	Receive Date:	08/31/2012 16:55
	Project Number:	---	Sampling Date:	08/31/2012 09:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-11-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216488-04	COC Number:	---	Receive Date:	08/31/2012 16:55
	Project Number:	---	Sampling Date:	08/31/2012 09:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUPE-3-3Q12	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216488-05	COC Number:	---	Receive Date:	08/31/2012 16:55
	Project Number:	---	Sampling Date:	08/31/2012 10:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-11-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216488-06	COC Number:	---	Receive Date:	08/31/2012 16:55
	Project Number:	---	Sampling Date:	08/31/2012 10:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-11-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-01	Client Sample Name: TB-1, 8/31/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-01	Client Sample Name: TB-1, 8/31/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-01	Client Sample Name: TB-1, 8/31/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 07:34	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216488-01	Client Sample Name: TB-1, 8/31/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 07:34	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-02	Client Sample Name: MW-11-4, 8/31/2012 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-02	Client Sample Name: MW-11-4, 8/31/2012 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.16	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	0.75	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-02	Client Sample Name: MW-11-4, 8/31/2012 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 07:56	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216488-02	Client Sample Name: MW-11-4, 8/31/2012 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 07:56	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216488-02	Client Sample Name: MW-11-4, 8/31/2012 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/31/12	08/31/12 22:26	LD1	IC6	1	BVI0085



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-03	Client Sample Name: MW-11-3, 8/31/2012 9:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-03	Client Sample Name: MW-11-3, 8/31/2012 9:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.15	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	0.43	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-03	Client Sample Name: MW-11-3, 8/31/2012 9:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 08:19	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216488-03	Client Sample Name: MW-11-3, 8/31/2012 9:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 08:19	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216488-03	Client Sample Name: MW-11-3, 8/31/2012 9:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/31/12	08/31/12 22:39	LD1	IC6	1	BVI0085

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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216488-03	Client Sample Name: MW-11-3, 8/31/2012 9:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/31/12	08/31/12 19:19	LS1	KONE-1	1	BVI0137
2	EPA-200.8	09/11/12	09/12/12 14:31	SRM	PE-EL2	1	BVI0696



Battelle MHTS
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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-04	Client Sample Name: DUPE-3-3Q12, 8/31/2012 9:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-04		Client Sample Name: DUPE-3-3Q12, 8/31/2012 9:05:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.17	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	0.39	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-04		Client Sample Name: DUPE-3-3Q12, 8/31/2012 9:05:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/10/12	09/10/12	11:25	MGC	MS-V5	1	BV10543

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216488-04	Client Sample Name: DUPE-3-3Q12, 8/31/2012 9:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 11:25	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216488-04	Client Sample Name: DUPE-3-3Q12, 8/31/2012 9:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/31/12	08/31/12 22:53	LD1	IC6	1	BVI0085



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216488-04	Client Sample Name: DUPE-3-3Q12, 8/31/2012 9:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/31/12	08/31/12 19:19	LS1	KONE-1	1	BVI0137
2	EPA-200.8	09/11/12	09/12/12 15:19	SRM	PE-EL2	1	BVI0696



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-05	Client Sample Name: MW-11-2, 8/31/2012 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-05		Client Sample Name: MW-11-2, 8/31/2012 10:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.080	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-05		Client Sample Name: MW-11-2, 8/31/2012 10:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 11:48	MGC	MS-V5	1	BV10543

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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216488-05	Client Sample Name: MW-11-2, 8/31/2012 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 11:48	MGC	MS-V5	1	BVI0543

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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216488-05	Client Sample Name: MW-11-2, 8/31/2012 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/31/12	08/31/12 23:06	LD1	IC6	1	BVI0085



Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216488-05	Client Sample Name: MW-11-2, 8/31/2012 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/31/12	08/31/12 19:19	LS1	KONE-1	1	BVI0137
2	EPA-200.8	09/11/12	09/12/12 15:22	SRM	PE-EL2	1	BVI0696



Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-06	Client Sample Name: MW-11-1, 8/31/2012 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-06	Client Sample Name: MW-11-1, 8/31/2012 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216488-06	Client Sample Name: MW-11-1, 8/31/2012 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 12:10	MGC	MS-V5	1	BV10543



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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216488-06	Client Sample Name: MW-11-1, 8/31/2012 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 12:10	MGC	MS-V5	1	BVI0543

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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216488-06	Client Sample Name: MW-11-1, 8/31/2012 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	19	mg/L	0.50	0.066	EPA-300.0	ND		1
Nitrate as N	0.70	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	45	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		3
ortho-Phosphate as P	0.034	mg/L	0.020	0.0026	EPA-365.1	0.0046		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/31/12	09/01/12 07:26	LD1	IC5	1	BVI0084
2	EPA-353.2	08/31/12	08/31/12 23:23	TDC	KONE-1	1	BVI0138
3	EPA-314.0	08/31/12	08/31/12 23:19	LD1	IC6	1	BVI0085
4	EPA-365.1	09/01/12	09/01/12 11:01	LS1	KONE-1	1	BVI0140



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Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216488-06	Client Sample Name: MW-11-1, 8/31/2012 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/31/12	08/31/12 19:19	LS1	KONE-1	1	BVI0137
2	EPA-200.8	09/11/12	09/12/12 15:25	SRM	PE-EL2	1	BVI0696

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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0543						
Benzene	BVI0543-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0543-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0543-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0543-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0543-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0543-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0543-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0543-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0543-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0543-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0543-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0543-BLK1	ND	ug/L	0.50	0.14	

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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0543						
trans-1,3-Dichloropropene	BVI0543-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0543-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0543-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0543-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0543-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0543-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2-Tetrachloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0543-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVI0543-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0543-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0543-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0543-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0543-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0543-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0543-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0543-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0543-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0543-BLK1	ND	ug/L	10	1.7	

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Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0543						
Methyl ethyl ketone	BVI0543-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0543-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0543-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0543-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0543-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0543-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0543-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0543-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0543-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0543-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0543-BLK1	96.6	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0543-BLK1	99.1	%	80 - 120 (LCL - UCL)		



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0543										
Benzene	BVI0543-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
Bromodichloromethane	BVI0543-BS1	LCS	25.160	25.000	ug/L	101		70 - 130		
Chlorobenzene	BVI0543-BS1	LCS	24.180	25.000	ug/L	96.7		70 - 130		
Chloroethane	BVI0543-BS1	LCS	26.190	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BVI0543-BS1	LCS	25.350	25.000	ug/L	101		70 - 130		
1,1-Dichloroethane	BVI0543-BS1	LCS	24.740	25.000	ug/L	99.0		70 - 130		
1,1-Dichloroethene	BVI0543-BS1	LCS	27.340	25.000	ug/L	109		70 - 130		
Toluene	BVI0543-BS1	LCS	25.110	25.000	ug/L	100		70 - 130		
Trichloroethene	BVI0543-BS1	LCS	25.540	25.000	ug/L	102		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0543-BS1	LCS	9.7500	10.000	ug/L	97.5		75 - 125		
Toluene-d8 (Surrogate)	BVI0543-BS1	LCS	9.9000	10.000	ug/L	99.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0543-BS1	LCS	9.9200	10.000	ug/L	99.2		80 - 120		



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Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0543		Used client sample: Y - Description: MW-11-4, 08/31/2012 08:35								
Benzene	MS	1216488-02	ND	24.430	25.000	ug/L		97.7		70 - 130
	MSD	1216488-02	ND	24.180	25.000	ug/L	1.0	96.7	20	70 - 130
Bromodichloromethane	MS	1216488-02	ND	25.150	25.000	ug/L		101		70 - 130
	MSD	1216488-02	ND	24.850	25.000	ug/L	1.2	99.4	20	70 - 130
Chlorobenzene	MS	1216488-02	ND	24.460	25.000	ug/L		97.8		70 - 130
	MSD	1216488-02	ND	23.630	25.000	ug/L	3.5	94.5	20	70 - 130
Chloroethane	MS	1216488-02	ND	26.580	25.000	ug/L		106		70 - 130
	MSD	1216488-02	ND	25.960	25.000	ug/L	2.4	104	20	70 - 130
1,4-Dichlorobenzene	MS	1216488-02	ND	25.480	25.000	ug/L		102		70 - 130
	MSD	1216488-02	ND	24.650	25.000	ug/L	3.3	98.6	20	70 - 130
1,1-Dichloroethane	MS	1216488-02	ND	25.100	25.000	ug/L		100		70 - 130
	MSD	1216488-02	ND	24.220	25.000	ug/L	3.6	96.9	20	70 - 130
1,1-Dichloroethene	MS	1216488-02	ND	26.770	25.000	ug/L		107		70 - 130
	MSD	1216488-02	ND	25.940	25.000	ug/L	3.1	104	20	70 - 130
Toluene	MS	1216488-02	ND	24.590	25.000	ug/L		98.4		70 - 130
	MSD	1216488-02	ND	24.780	25.000	ug/L	0.8	99.1	20	70 - 130
Trichloroethene	MS	1216488-02	ND	24.640	25.000	ug/L		98.6		70 - 130
	MSD	1216488-02	ND	24.730	25.000	ug/L	0.4	98.9	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216488-02	ND	9.8700	10.000	ug/L		98.7		75 - 125
	MSD	1216488-02	ND	9.6200	10.000	ug/L	2.6	96.2		75 - 125
Toluene-d8 (Surrogate)	MS	1216488-02	ND	9.7500	10.000	ug/L		97.5		80 - 120
	MSD	1216488-02	ND	9.7600	10.000	ug/L	0.1	97.6		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216488-02	ND	10.000	10.000	ug/L		100		80 - 120
	MSD	1216488-02	ND	9.6600	10.000	ug/L	3.5	96.6		80 - 120

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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0543						
Chloroacetonitrile	BVI0543-BLK1	0	ug/L			
1-Chlorobutane	BVI0543-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0543-BLK1	0	ug/L			
Methyl acrylate	BVI0543-BLK1	0	ug/L			
Nitrobenzene	BVI0543-BLK1	0	ug/L			
2-Nitropropane	BVI0543-BLK1	0	ug/L			



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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0084						
Chloride	BVI0084-BLK1	ND	mg/L	0.50	0.066	
Nitrate as N	BVI0084-BLK1	ND	mg/L	0.10	0.021	
Sulfate	BVI0084-BLK1	ND	mg/L	1.0	0.12	
QC Batch ID: BVI0085						
Perchlorate	BVI0085-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: BVI0138						
Nitrite as N	BVI0138-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BVI0140						
ortho-Phosphate as P	BVI0140-BLK1	0.0046060	mg/L	0.020	0.0026	J



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0084										
Chloride	BVI0084-BS1	LCS	53.409	50.000	mg/L	107		90 - 110		
Nitrate as N	BVI0084-BS1	LCS	5.2220	5.0000	mg/L	104		90 - 110		
Sulfate	BVI0084-BS1	LCS	106.33	100.00	mg/L	106		90 - 110		
QC Batch ID: BVI0085										
Perchlorate	BVI0085-BS1	LCS	10.702	10.000	ug/L	107		85 - 115		
QC Batch ID: BVI0138										
Nitrite as N	BVI0138-BS1	LCS	0.45873	0.50000	mg/L	91.7		90 - 110		
QC Batch ID: BVI0140										
ortho-Phosphate as P	BVI0140-BS1	LCS	0.18347	0.20000	mg/L	91.7		90 - 110		



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Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0084		Used client sample: Y - Description: MW-11-1, 08/31/2012 10:45								
Chloride	DUP	1216488-06	19.251	19.373		mg/L	0.6		10	
	MS	1216488-06	19.251	76.612	50.505	mg/L		114		80 - 120
	MSD	1216488-06	19.251	76.489	50.505	mg/L	0.2	113	10	80 - 120
Nitrate as N	DUP	1216488-06	0.69500	0.71900		mg/L	3.4		10	
	MS	1216488-06	0.69500	6.1808	5.0505	mg/L		109		80 - 120
	MSD	1216488-06	0.69500	6.2182	5.0505	mg/L	0.6	109	10	80 - 120
Sulfate	DUP	1216488-06	44.781	45.147		mg/L	0.8		10	
	MS	1216488-06	44.781	158.70	101.01	mg/L		113		80 - 120
	MSD	1216488-06	44.781	158.69	101.01	mg/L	0.0	113	10	80 - 120
QC Batch ID: BVI0085		Used client sample: Y - Description: FBRIN, 08/30/2012 11:58								
Perchlorate	DUP	1216479-03	97.330	95.078		ug/L	2.3		15	
	MS	1216479-03	97.330	333.89	202.02	ug/L		117		80 - 120
	MSD	1216479-03	97.330	337.90	202.02	ug/L	1.2	119	15	80 - 120
QC Batch ID: BVI0138		Used client sample: Y - Description: FBRIN, 08/30/2012 11:58								
Nitrite as N	DUP	1216479-03	ND	ND		mg/L			10	
	MS	1216479-03	ND	0.48398	0.52632	mg/L		92.0		90 - 110
	MSD	1216479-03	ND	0.48326	0.52632	mg/L	0.1	91.8	10	90 - 110
QC Batch ID: BVI0140		Used client sample: Y - Description: MW-11-1, 08/31/2012 10:45								
ortho-Phosphate as P	DUP	1216488-06	0.033876	0.032415		mg/L	4.4		10	
	MS	1216488-06	0.033876	0.25185	0.21053	mg/L		104		90 - 110
	MSD	1216488-06	0.033876	0.23608	0.21053	mg/L	6.5	96.0	10	90 - 110

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0137						
Hexavalent Chromium	BVI0137-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVI0696						
Total Recoverable Chromium	BVI0696-BLK1	ND	ug/L	3.0	0.50	



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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVI0137											
Hexavalent Chromium	BVI0137-BS1	LCS	0.045557	0.050000	mg/L	91.1		85	115		
QC Batch ID: BVI0696											
Total Recoverable Chromium	BVI0696-BS1	LCS	42.803	40.000	ug/L	107		85	115		



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVI0137		Used client sample: Y - Description: MW-11-3, 08/31/2012 09:05								
Hexavalent Chromium	DUP	1216488-03	ND	ND		mg/L			10	
	MS	1216488-03	ND	0.044492	0.052632	mg/L		84.5		85 - 115 Q03
	MSD	1216488-03	ND	0.044349	0.052632	mg/L	0.3	84.3	10	85 - 115 Q03
QC Batch ID: BVI0696		Used client sample: Y - Description: MW-11-3, 08/31/2012 09:05								
Total Recoverable Chromium	DUP	1216488-03	ND	ND		ug/L			20	
	MS	1216488-03	ND	42.684	40.000	ug/L		107		70 - 130
	MSD	1216488-03	ND	43.394	40.000	ug/L	1.6	108	20	70 - 130



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:41
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 09/20/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1216587

Invoice ID: B130072

Enclosed are the results of analyses for samples received by the laboratory on 9/4/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form



Page 1 of 1

Required Fields

Report To: Battelle MHTS
 Client: David Conner
 Attn: David Conner
 Street Address: 505 King Ave.
 City: Columbus State: OH Zip: 43201
 Phone#: (614) 424-5489 Fax#: (614) 458-5489
 Email Address: connerd@battelle.org
 Submission #: 12-10587

Project Description: JPL
 Project Code: 3Q12
 Sampler(s): Blaine Tech

Client: Same as client
 Attn:
 Address:
 City: State: Zip:
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 30

Sample #	Sample Description	Date	Time	Matrix*	Analysis Requested							Notes		
					VOCs EPA 524.2	Total Chromium 200.8	Perchlorate 314.0	Hexavalent Chromium 7196	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2			
1	TB-1	9-4-12	0830	GW	X									
2	MW-23-4		0900		X	X	X	X						Level IV Validation
3	MW-23-3		0930		X	X	X	X						
4	MW-23-2		1000		X	X	X	X						
5	DDE-4-3Q12		1000		X	X	X	X						
6	MW-23-1		1100		X	X	X	X						
7	MW-4-3		1200		X	X	X	X						
8	MW-4-2		1230		X	X	X	X						Level IV Validation
9	MW-4-1		1300		X	X	X	X						

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____ *Additional Charges May Apply

Global ID: _____

1. Relinquished By: [Signature] Date: 9-4-12 Time: 1530
 2. Relinquished By: [Signature] Date: 9-4-12 Time: 1800
 3. Relinquished By: [Signature] Date: 9-4-12 Time: 1800

Cost Center: _____

1. Relinquished By: [Signature] Date: 9-4-12 Time: 1530
 2. Relinquished By: [Signature] Date: 9-4-12 Time: 1800
 3. Relinquished By: [Signature] Date: 9-4-12 Time: 1800

Comments: pay w/ credit card
 *****PLEASE NOTE WHICH SAMPLES TO USE FOR QC (MS/MSD)*****

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1216587 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 1 Of 1

Submission #: 12-16587

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: 24PP Thermometer ID: 207 Date/Time 9-4-12
 Temperature: (A) 1.4 °C / (C) 1.8 °C Analyst Init JW 1855

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		A	B	B	B	B	B	B	B	
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		B	C	C	C	C	C	C	C	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		1	A.3	A.3	A.3	A.3	A.3	A.3	A.3	
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M1										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

CHK BY: K/D

DISTRIBUTION: SUPPLY MAINT SUB OUT

SHORT HOLDING TIME: NO₂ O₃ OP SS

DO Cl₂ BOD MBAS COT

Comments: No description on -3.
 Sample Numbering Completed By: JW Date/Time: 9-4-12 1854
 A = Actual / C = Corrected

IC:\MyDOCS\Work\Perfec\LAB_DOCS\FORMS\ISAM\REC 21



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216587-01	COC Number:	---	Receive Date:	09/04/2012 18:00
	Project Number:	---	Sampling Date:	09/04/2012 08:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TB-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Trip Blank
	<hr/>			
1216587-02	COC Number:	---	Receive Date:	09/04/2012 18:00
	Project Number:	---	Sampling Date:	09/04/2012 09:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-23-4	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216587-03	COC Number:	---	Receive Date:	09/04/2012 18:00
	Project Number:	---	Sampling Date:	09/04/2012 09:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-23-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216587-04	COC Number:	---	Receive Date:	09/04/2012 18:00
	Project Number:	---	Sampling Date:	09/04/2012 10:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-23-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216587-05	COC Number:	---	Receive Date:	09/04/2012 18:00
	Project Number:	---	Sampling Date:	09/04/2012 10:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUPE-4-3Q12	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216587-06	COC Number:	---	Receive Date:	09/04/2012 18:00
	Project Number:	---	Sampling Date:	09/04/2012 11:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-23-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216587-07	COC Number:	---	Receive Date:	09/04/2012 18:00
	Project Number:	---	Sampling Date:	09/04/2012 12:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-4-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216587-08	COC Number:	---	Receive Date:	09/04/2012 18:00
	Project Number:	---	Sampling Date:	09/04/2012 12:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-4-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216587-09	COC Number:	---	Receive Date:	09/04/2012 18:00
	Project Number:	---	Sampling Date:	09/04/2012 13:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-4-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-01	Client Sample Name: TB-1, 9/4/2012 8:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-01	Client Sample Name: TB-1, 9/4/2012 8:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-01	Client Sample Name: TB-1, 9/4/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 12:32	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216587-01	Client Sample Name: TB-1, 9/4/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 12:32	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216587-02	Client Sample Name: MW-23-4, 9/4/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0028	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.2	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/04/12	09/04/12 22:44	TMS	KONE-1	1	BVI0371
2	EPA-200.8	09/12/12	09/12/12 16:17	SRM	PE-EL2	1	BVI0798

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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-03	Client Sample Name: MW-23-3, 9/4/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-03	Client Sample Name: MW-23-3, 9/4/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-03	Client Sample Name: MW-23-3, 9/4/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 12:55	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216587-03	Client Sample Name: MW-23-3, 9/4/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 12:55	MGC	MS-V5	1	BVI0543

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216587-03	Client Sample Name: MW-23-3, 9/4/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.9	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 15:05	LD1	IC6	1	BVI0782



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216587-03	Client Sample Name: MW-23-3, 9/4/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0029	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/04/12	09/04/12 22:44	TMS	KONE-1	1	BVI0371
2	EPA-200.8	09/12/12	09/12/12 16:35	SRM	PE-EL2	1	BVI0798

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-04	Client Sample Name: MW-23-2, 9/4/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.44	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.15	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-04	Client Sample Name: MW-23-2, 9/4/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.31	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.70	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-04	Client Sample Name: MW-23-2, 9/4/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 13:17	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216587-04	Client Sample Name: MW-23-2, 9/4/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 13:17	MGC	MS-V5	1	BVI0543

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216587-04	Client Sample Name: MW-23-2, 9/4/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.7	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 15:19	LD1	IC6	1	BVI0782

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Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216587-04	Client Sample Name: MW-23-2, 9/4/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/04/12	09/04/12 22:44	TMS	KONE-1	1	BVI0371
2	EPA-200.8	09/12/12	09/13/12 13:39	SRM	PE-EL2	1	BVI0798

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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-05	Client Sample Name: DUPE-4-3Q12, 9/4/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.52	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.17	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-05 **Client Sample Name:** DUPE-4-3Q12, 9/4/2012 10:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.31	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.67	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-05	Client Sample Name: DUPE-4-3Q12, 9/4/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 13:40	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216587-05	Client Sample Name: DUPE-4-3Q12, 9/4/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 13:40	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216587-05	Client Sample Name: DUPE-4-3Q12, 9/4/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.6	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 15:32	LD1	IC6	1	BVI0782

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Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216587-05	Client Sample Name: DUPE-4-3Q12, 9/4/2012 10:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0015	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/04/12	09/04/12 22:44	TMS	KONE-1	1	BVI0371
2	EPA-200.8	09/12/12	09/13/12 13:42	SRM	PE-EL2	1	BVI0798



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-06	Client Sample Name: MW-23-1, 9/4/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.32	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.17	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-06	Client Sample Name: MW-23-1, 9/4/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.44	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.27	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-06	Client Sample Name: MW-23-1, 9/4/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 14:02	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216587-06	Client Sample Name: MW-23-1, 9/4/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 14:02	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216587-06	Client Sample Name: MW-23-1, 9/4/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.5	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 15:45	LD1	IC6	1	BVI0782



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216587-06	Client Sample Name: MW-23-1, 9/4/2012 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	09/04/12	09/04/12 22:44	TMS	KONE-1	1	BVI0371
2	EPA-200.8	09/12/12	09/13/12 13:45	SRM	PE-EL2	1	BVI0798



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-07	Client Sample Name: MW-4-3, 9/4/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-07	Client Sample Name: MW-4-3, 9/4/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-07	Client Sample Name: MW-4-3, 9/4/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 14:25	MGC	MS-V5	1	BV10543

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216587-07	Client Sample Name: MW-4-3, 9/4/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 14:25	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216587-07	Client Sample Name: MW-4-3, 9/4/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 15:59	LD1	IC6	1	BVI0782

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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216587-07	Client Sample Name: MW-4-3, 9/4/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0026	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/04/12	09/04/12 22:51	TMS	KONE-1	1	BVI0371
2	EPA-200.8	09/12/12	09/13/12 13:57	SRM	PE-EL2	1	BVI0798

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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-08	Client Sample Name: MW-4-2, 9/4/2012 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	1.0	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	1.4	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	0.57	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-08	Client Sample Name: MW-4-2, 9/4/2012 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.22	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.15	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-08	Client Sample Name: MW-4-2, 9/4/2012 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 14:47	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216587-08	Client Sample Name: MW-4-2, 9/4/2012 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 14:47	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216587-08	Client Sample Name: MW-4-2, 9/4/2012 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	220	ug/L	80	16	EPA-314.0	ND	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/12/12 01:31	LD1	IC6	20	BVI0782

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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216587-08	Client Sample Name: MW-4-2, 9/4/2012 12:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/04/12	09/04/12 22:51	TMS	KONE-1	1	BVI0371
2	EPA-200.8	09/12/12	09/13/12 14:00	SRM	PE-EL2	1	BVI0798



Battelle MHTS
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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-09	Client Sample Name: MW-4-1, 9/4/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-09	Client Sample Name: MW-4-1, 9/4/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216587-09	Client Sample Name: MW-4-1, 9/4/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 15:10	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216587-09	Client Sample Name: MW-4-1, 9/4/2012 1:00:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 15:10	MGC	MS-V5	1	BVI0543



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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216587-09	Client Sample Name: MW-4-1, 9/4/2012 1:00:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 16:25	LD1	IC6	1	BVI0782

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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216587-09	Client Sample Name: MW-4-1, 9/4/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/04/12	09/04/12 22:51	TMS	KONE-1	1	BVI0371
2	EPA-200.8	09/12/12	09/13/12 14:03	SRM	PE-EL2	1	BVI0798



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Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0543						
Benzene	BVI0543-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0543-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0543-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0543-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0543-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0543-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0543-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0543-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0543-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0543-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0543-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0543-BLK1	ND	ug/L	0.50	0.14	

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Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0543						
trans-1,3-Dichloropropene	BVI0543-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0543-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0543-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0543-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0543-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0543-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0543-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVI0543-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0543-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0543-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0543-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0543-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0543-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0543-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0543-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0543-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0543-BLK1	ND	ug/L	10	1.7	

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Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0543						
Methyl ethyl ketone	BVI0543-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0543-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0543-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0543-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0543-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0543-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0543-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0543-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0543-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0543-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0543-BLK1	96.6	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0543-BLK1	99.1	%	80 - 120 (LCL - UCL)		



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0543										
Benzene	BVI0543-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
Bromodichloromethane	BVI0543-BS1	LCS	25.160	25.000	ug/L	101		70 - 130		
Chlorobenzene	BVI0543-BS1	LCS	24.180	25.000	ug/L	96.7		70 - 130		
Chloroethane	BVI0543-BS1	LCS	26.190	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BVI0543-BS1	LCS	25.350	25.000	ug/L	101		70 - 130		
1,1-Dichloroethane	BVI0543-BS1	LCS	24.740	25.000	ug/L	99.0		70 - 130		
1,1-Dichloroethene	BVI0543-BS1	LCS	27.340	25.000	ug/L	109		70 - 130		
Toluene	BVI0543-BS1	LCS	25.110	25.000	ug/L	100		70 - 130		
Trichloroethene	BVI0543-BS1	LCS	25.540	25.000	ug/L	102		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0543-BS1	LCS	9.7500	10.000	ug/L	97.5		75 - 125		
Toluene-d8 (Surrogate)	BVI0543-BS1	LCS	9.9000	10.000	ug/L	99.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0543-BS1	LCS	9.9200	10.000	ug/L	99.2		80 - 120		



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0543		Used client sample: Y - Description: MW-11-4, 08/31/2012 08:35								
Benzene	MS	1216488-02	ND	24.430	25.000	ug/L		97.7		70 - 130
	MSD	1216488-02	ND	24.180	25.000	ug/L	1.0	96.7	20	70 - 130
Bromodichloromethane	MS	1216488-02	ND	25.150	25.000	ug/L		101		70 - 130
	MSD	1216488-02	ND	24.850	25.000	ug/L	1.2	99.4	20	70 - 130
Chlorobenzene	MS	1216488-02	ND	24.460	25.000	ug/L		97.8		70 - 130
	MSD	1216488-02	ND	23.630	25.000	ug/L	3.5	94.5	20	70 - 130
Chloroethane	MS	1216488-02	ND	26.580	25.000	ug/L		106		70 - 130
	MSD	1216488-02	ND	25.960	25.000	ug/L	2.4	104	20	70 - 130
1,4-Dichlorobenzene	MS	1216488-02	ND	25.480	25.000	ug/L		102		70 - 130
	MSD	1216488-02	ND	24.650	25.000	ug/L	3.3	98.6	20	70 - 130
1,1-Dichloroethane	MS	1216488-02	ND	25.100	25.000	ug/L		100		70 - 130
	MSD	1216488-02	ND	24.220	25.000	ug/L	3.6	96.9	20	70 - 130
1,1-Dichloroethene	MS	1216488-02	ND	26.770	25.000	ug/L		107		70 - 130
	MSD	1216488-02	ND	25.940	25.000	ug/L	3.1	104	20	70 - 130
Toluene	MS	1216488-02	ND	24.590	25.000	ug/L		98.4		70 - 130
	MSD	1216488-02	ND	24.780	25.000	ug/L	0.8	99.1	20	70 - 130
Trichloroethene	MS	1216488-02	ND	24.640	25.000	ug/L		98.6		70 - 130
	MSD	1216488-02	ND	24.730	25.000	ug/L	0.4	98.9	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216488-02	ND	9.8700	10.000	ug/L		98.7		75 - 125
	MSD	1216488-02	ND	9.6200	10.000	ug/L	2.6	96.2		75 - 125
Toluene-d8 (Surrogate)	MS	1216488-02	ND	9.7500	10.000	ug/L		97.5		80 - 120
	MSD	1216488-02	ND	9.7600	10.000	ug/L	0.1	97.6		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216488-02	ND	10.000	10.000	ug/L		100		80 - 120
	MSD	1216488-02	ND	9.6600	10.000	ug/L	3.5	96.6		80 - 120

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Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0543						
Chloroacetonitrile	BVI0543-BLK1	0	ug/L			
1-Chlorobutane	BVI0543-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0543-BLK1	0	ug/L			
Methyl acrylate	BVI0543-BLK1	0	ug/L			
Nitrobenzene	BVI0543-BLK1	0	ug/L			
2-Nitropropane	BVI0543-BLK1	0	ug/L			



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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0782						
Perchlorate	BVI0782-BLK1	ND	ug/L	4.0	0.81	



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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0782										
Perchlorate	BVI0782-BS1	LCS	10.708	10.000	ug/L	107		85	115	



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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVI0782		Used client sample: Y - Description: MW-23-3, 09/04/2012 09:30								
Perchlorate	DUP	1216587-03	1.9380	1.9333		ug/L	0.2		15	J
	MS	1216587-03	1.9380	13.843	10.101	ug/L		118	80 - 120	
	MSD	1216587-03	1.9380	13.669	10.101	ug/L	1.3	116	15 80 - 120	

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Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0371						
Hexavalent Chromium	BVI0371-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVI0798						
Total Recoverable Chromium	BVI0798-BLK1	ND	ug/L	3.0	0.50	



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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVI0371											
Hexavalent Chromium	BVI0371-BS1	LCS	0.041372	0.050000	mg/L	82.7		85 - 115			L02
QC Batch ID: BVI0798											
Total Recoverable Chromium	BVI0798-BS1	LCS	40.293	40.000	ug/L	101		85 - 115			



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Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BVI0371		Used client sample: Y - Description: MW-23-4, 09/04/2012 09:00									
Hexavalent Chromium	DUP	1216587-02	0.0028310	0.0026820		mg/L	5.4		10		
	MS	1216587-02	0.0028310	0.049278	0.052632	mg/L		88.2		85 - 115	
	MSD	1216587-02	0.0028310	0.048617	0.052632	mg/L	1.4	87.0	10	85 - 115	
QC Batch ID: BVI0798		Used client sample: Y - Description: MW-23-4, 09/04/2012 09:00									
Total Recoverable Chromium	DUP	1216587-02	2.2380	2.1620		ug/L	3.5		20		J
	MS	1216587-02	2.2380	42.403	40.000	ug/L		100		70 - 130	
	MSD	1216587-02	2.2380	42.644	40.000	ug/L	0.6	101	20	70 - 130	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- L02 The Laboratory Control Sample Water (LCSW) recovery is not within method established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 09/20/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1216753

Invoice ID: B130073

Enclosed are the results of analyses for samples received by the laboratory on 9/5/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form

Page 1 of 2



BC Laboratories, Inc.

*** Required Fields**

Report To: Battelle MHTS
 Client: David Conner
 Attn: David Conner
 Street Address: 505 King Ave.
 City: Columbus State: OH Zip: 43201
 Phone: (614) 424-5489 Fax: (614) 458-5489
 Email Address: connerd@battelle.org
 Submission #: 12-16-153

Project Description: JPL
 Project Code: 3Q12
 Sampler(s): Blaine Tech

Sample #	Sample Description	Date	Time	Matrix*
1	TB-1	9-5-12	0730	SL
2	MW-12-5		0800	
3	MW-12-4		0830	
4	MW-12-3		0900	
5	MW-12-2		0930	
6	MW-12-1		1000	
7	DUPE-5-3Q12		1000	
8	MW-24-4		1130	
9	MW-24-3		1200	
10	DUPE-6-3Q12		1200	
11	MW-24-2		1300	

Analysis Requested:
 Total Chromium 200.8
 VOCs EPA 524.2
 Perchlorate 314.0
 Hexavalent Chromium 7196
 Chloride, Nitrate, Sulfate
 Orthophosphate 365.1
 Nitrite 353.2

Notes:
 *Standard Turnaround = 10
 Yes No
 Are there any tests with holding times? less than or equal to 48 hours?
 Billing: Client: Same as client
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 MS/ANALYST BY: K10
 SUBSTITUTION: _____
 SUB-OUT: _____
 SHORT HOLDING TIME: _____
 NO₂ NO₃ OP SS
 DO Cl₂ BOD MBAS CCT

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____

Comments: pay w/ credit card
 *****PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)*****

Global #1: 1. Relinquished By: [Signature] Date: 9-5-12 Time: 1330
 2. Relinquished By: [Signature] Date: 9-5-12 Time: 1911
 3. Relinquished By: [Signature] Date: 9-5-12 Time: 1920

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

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Chain of Custody Form

Page 2 of 2



Report To: Client: Battelle MHTS Attn: David Conner Street Address: 505 King Ave. City: Columbus State: OH Zip: 43201 Phone: (614) 424-5489 Fax: (614) 458-5489 Email Address: connerd@battelle.org Submission #: 12-110753	Project Description: JPL Project Code: 3Q12 Sampler (s): Blaine Tech	Analysis Requested <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">VOCs EPA 524.2</td> <td style="width: 10%; text-align: center;">X</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>Total Chromium 200.8</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Perchlorate 314.0</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hexavalent Chromium 7196</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Chloride, Nitrate, Sulfate 50</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Orthophosphate 365.1</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nitrite 353.2</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> </table>	VOCs EPA 524.2	X				Total Chromium 200.8	X				Perchlorate 314.0	X				Hexavalent Chromium 7196	X				Chloride, Nitrate, Sulfate 50	X				Orthophosphate 365.1	X				Nitrite 353.2	X				Billing Client: Same as Client Attn: Address: City: State: Zip: Are there any tests with holding times? less than or equal to 48 hours? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> NO <small>*Standard Turnaround = 30</small>	Notes
VOCs EPA 524.2	X																																						
Total Chromium 200.8	X																																						
Perchlorate 314.0	X																																						
Hexavalent Chromium 7196	X																																						
Chloride, Nitrate, Sulfate 50	X																																						
Orthophosphate 365.1	X																																						
Nitrite 353.2	X																																						
Sample # 12	Sample Description MW-24-1	Date 9-5-12	Time 1330	Matrix* GW	<table border="0" style="width: 100%;"> <tr> <td>Matrix Types:</td> <td><input type="checkbox"/> S = Soil</td> <td><input type="checkbox"/> SL = Sludge</td> <td><input type="checkbox"/> DW = Drinking Water</td> <td><input type="checkbox"/> WW = Wastewater</td> <td><input type="checkbox"/> GW = Groundwater</td> <td><input type="checkbox"/> L = Liquid</td> <td><input type="checkbox"/> M = Miscellaneous</td> <td><input type="checkbox"/> O = Other</td> </tr> <tr> <td>Turnaround # of working days:</td> <td><input type="checkbox"/> 24 Hr Rush</td> <td><input type="checkbox"/> 48 Hr Rush</td> <td><input type="checkbox"/> 3-5 Day Rush</td> <td><input checked="" type="checkbox"/> Normal (10 - Days)</td> <td colspan="4"></td> </tr> <tr> <td>Lab TAT Approval:</td> <td colspan="8">* Additional Charges May Apply</td> </tr> </table>	Matrix Types:	<input type="checkbox"/> S = Soil	<input type="checkbox"/> SL = Sludge	<input type="checkbox"/> DW = Drinking Water	<input type="checkbox"/> WW = Wastewater	<input type="checkbox"/> GW = Groundwater	<input type="checkbox"/> L = Liquid	<input type="checkbox"/> M = Miscellaneous	<input type="checkbox"/> O = Other	Turnaround # of working days:	<input type="checkbox"/> 24 Hr Rush	<input type="checkbox"/> 48 Hr Rush	<input type="checkbox"/> 3-5 Day Rush	<input checked="" type="checkbox"/> Normal (10 - Days)					Lab TAT Approval:	* Additional Charges May Apply														
Matrix Types:	<input type="checkbox"/> S = Soil	<input type="checkbox"/> SL = Sludge	<input type="checkbox"/> DW = Drinking Water	<input type="checkbox"/> WW = Wastewater	<input type="checkbox"/> GW = Groundwater	<input type="checkbox"/> L = Liquid	<input type="checkbox"/> M = Miscellaneous	<input type="checkbox"/> O = Other																															
Turnaround # of working days:	<input type="checkbox"/> 24 Hr Rush	<input type="checkbox"/> 48 Hr Rush	<input type="checkbox"/> 3-5 Day Rush	<input checked="" type="checkbox"/> Normal (10 - Days)																																			
Lab TAT Approval:	* Additional Charges May Apply																																						
Comments: pay w/ credit card PLEASE NOTIFY WHICH SAMPLES TO USE FOR QC (MS/MSD).....					Cost Center: 1. Relinquished By: Date: 9-5-12 Time: 1530 2. Relinquished By: Date: 9-5-12 Time: 1900 3. Relinquished By: Date: 9-5-12 Time: 1920																																		

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Chain of Custody and Cooler Receipt Form for 1216753 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 1 of 2

Submission #: 12-16753

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.95 Container: GTP Thermometer ID: 207 Date/Time 9-5-12
 Temperature: (A) 1.0 °C / (C) 1.8 °C Analyst Init JNW 1920

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	IBA	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS				C	C	C	C	CB	C	C
PT CYANIDE								JNW		
PT NITROGEN FORMS								9512		
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A.1	A.3	A.3	A.4	A.3	A.3	A.3		A.3	A.3
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 503/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT-EPA-525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: JNW Date/Time: 9/5/12 2000
 = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1216753 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 2 of 2

Submission #: 12-16753

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, Box, None, Other.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes/No.

All samples received? Yes/No. All samples containers intact? Yes/No. Description(s) match COC? Yes/No.

COC Received: YES/NO. Emissivity: 0.95. Container: QTP. Thermometer ID: 207. Date/Time: 9-5-12. Analyst Init: JNW 1920. Temperature: (A) 11.0 °C / (C) 1.8 °C.

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: JNW Date/Time: 9/5/12 2000. A = Actual / C = Corrected

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216753-01	COC Number:	---	Receive Date:	09/05/2012 19:20
	Project Number:	---	Sampling Date:	09/05/2012 07:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TB-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Trip Blank
	<hr/>			
	1216753-02	COC Number:	---	Receive Date:
Project Number:		---	Sampling Date:	09/05/2012 08:00
Sampling Location:		---	Sample Depth:	---
Sampling Point:		MW-12-5	Lab Matrix:	Water
Sampled By:		Blaine Tech	Sample Type:	Groundwater
<hr/>				
1216753-03		COC Number:	---	Receive Date:
	Project Number:	---	Sampling Date:	09/05/2012 08:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-12-4	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
	1216753-04	COC Number:	---	Receive Date:
Project Number:		---	Sampling Date:	09/05/2012 09:00
Sampling Location:		---	Sample Depth:	---
Sampling Point:		MW-12-3	Lab Matrix:	Water
Sampled By:		Blaine Tech	Sample Type:	Groundwater
<hr/>				
1216753-05		COC Number:	---	Receive Date:
	Project Number:	---	Sampling Date:	09/05/2012 09:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-12-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
	1216753-06	COC Number:	---	Receive Date:
Project Number:		---	Sampling Date:	09/05/2012 10:00
Sampling Location:		---	Sample Depth:	---
Sampling Point:		MW-12-1	Lab Matrix:	Water
Sampled By:		Blaine Tech	Sample Type:	Groundwater
<hr/>				
1216753-07		COC Number:	---	Receive Date:
	Project Number:	---	Sampling Date:	09/05/2012 10:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUPE-5-3Q12	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216753-08	COC Number:	---	Receive Date:	09/05/2012 19:20
	Project Number:	---	Sampling Date:	09/05/2012 11:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-24-4	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216753-09	COC Number:	---	Receive Date:	09/05/2012 19:20
	Project Number:	---	Sampling Date:	09/05/2012 12:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-24-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216753-10	COC Number:	---	Receive Date:	09/05/2012 19:20
	Project Number:	---	Sampling Date:	09/05/2012 12:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUPE-6-3Q12	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216753-11	COC Number:	---	Receive Date:	09/05/2012 19:20
	Project Number:	---	Sampling Date:	09/05/2012 13:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-24-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
1216753-12	COC Number:	---	Receive Date:	09/05/2012 19:20
	Project Number:	---	Sampling Date:	09/05/2012 13:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-24-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-01	Client Sample Name: TB-1, 9/5/2012 7:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-01	Client Sample Name: TB-1, 9/5/2012 7:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-01	Client Sample Name: TB-1, 9/5/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 15:32	MGC	MS-V5	1	BV10543

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216753-01	Client Sample Name: TB-1, 9/5/2012 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 15:32	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-02	Client Sample Name: MW-12-5, 9/5/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	0.50	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.37	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-02	Client Sample Name: MW-12-5, 9/5/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.16	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-02	Client Sample Name: MW-12-5, 9/5/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 15:55	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216753-02	Client Sample Name: MW-12-5, 9/5/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 15:55	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216753-02	Client Sample Name: MW-12-5, 9/5/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.4	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 17:05	LD1	IC6	1	BVI0783

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-03	Client Sample Name: MW-12-4, 9/5/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	1.3	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.93	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-03	Client Sample Name: MW-12-4, 9/5/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.43	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-03	Client Sample Name: MW-12-4, 9/5/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 16:17	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216753-03	Client Sample Name: MW-12-4, 9/5/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 16:17	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216753-03	Client Sample Name: MW-12-4, 9/5/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.3	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 17:18	LD1	IC6	1	BVI0783

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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-04	Client Sample Name: MW-12-3, 9/5/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	1.0	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.64	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-04	Client Sample Name: MW-12-3, 9/5/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.12	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-04	Client Sample Name: MW-12-3, 9/5/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 16:40	MGC	MS-V5	1	BV10544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216753-04	Client Sample Name: MW-12-3, 9/5/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 16:40	MGC	MS-V5	1	BVI0544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216753-04	Client Sample Name: MW-12-3, 9/5/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.1	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 17:32	LD1	IC6	1	BVI0783

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Battelle MHTS
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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216753-04	Client Sample Name: MW-12-3, 9/5/2012 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/06/12	09/06/12 07:31	TDC	KONE-1	1	BVI0558
2	EPA-200.8	09/12/12	09/12/12 17:21	SRM	PE-EL2	1	BVI0799

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-05	Client Sample Name: MW-12-2, 9/5/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-05	Client Sample Name: MW-12-2, 9/5/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-05	Client Sample Name: MW-12-2, 9/5/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 17:02	MGC	MS-V5	1	BV10543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216753-05	Client Sample Name: MW-12-2, 9/5/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 17:02	MGC	MS-V5	1	BVI0543

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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216753-05	Client Sample Name: MW-12-2, 9/5/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	9.1	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 17:45	LD1	IC6	1	BVI0783

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216753-05	Client Sample Name: MW-12-2, 9/5/2012 9:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.62	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/06/12	09/06/12 07:31	TDC	KONE-1	1	BVI0558
2	EPA-200.8	09/12/12	09/12/12 17:48	SRM	PE-EL2	1	BVI0799

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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-06	Client Sample Name: MW-12-1, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-06	Client Sample Name: MW-12-1, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-06	Client Sample Name: MW-12-1, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 14:04	MGC	MS-V5	1	BV10543

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216753-06	Client Sample Name: MW-12-1, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 14:04	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216753-06	Client Sample Name: MW-12-1, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 17:58	LD1	IC6	1	BVI0783



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216753-06	Client Sample Name: MW-12-1, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	09/06/12	09/06/12 07:31	TDC	KONE-1	1	BVI0558
2	EPA-200.8	09/12/12	09/12/12 17:51	SRM	PE-EL2	1	BVI0799

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-07	Client Sample Name: DUPE-5-3Q12, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-07	Client Sample Name: DUPE-5-3Q12, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-07	Client Sample Name: DUPE-5-3Q12, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-524.2	09/10/12	09/10/12 22:17	MGC	MS-V5	1	BV10543

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216753-07	Client Sample Name: DUPE-5-3Q12, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 22:17	MGC	MS-V5	1	BVI0543



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216753-07	Client Sample Name: DUPE-5-3Q12, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 18:12	LD1	IC6	1	BVI0783

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216753-07	Client Sample Name: DUPE-5-3Q12, 9/5/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/06/12	09/06/12 07:31	TDC	KONE-1	1	BVI0558
2	EPA-200.8	09/12/12	09/12/12 17:54	SRM	PE-EL2	1	BVI0799



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216753-08	Client Sample Name: MW-24-4, 9/5/2012 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/06/12	09/06/12 07:31	TDC	KONE-1	1	BVI0558
2	EPA-200.8	09/12/12	09/12/12 17:57	SRM	PE-EL2	1	BVI0799



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-09	Client Sample Name: MW-24-3, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.13	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-09	Client Sample Name: MW-24-3, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-09	Client Sample Name: MW-24-3, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-524.2	09/10/12	09/10/12	20:02	MGC	MS-V5	1	BV10544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216753-09	Client Sample Name: MW-24-3, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 20:02	MGC	MS-V5	1	BVI0544



Battelle MHTS
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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216753-09	Client Sample Name: MW-24-3, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 18:25	LD1	IC6	1	BVI0783



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216753-09	Client Sample Name: MW-24-3, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	09/06/12	09/06/12 07:37	TDC	KONE-1	1	BVI0558
2	EPA-200.8	09/12/12	09/12/12 18:00	SRM	PE-EL2	1	BVI0799

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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-10	Client Sample Name: DUPE-6-3Q12, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-10	Client Sample Name: DUPE-6-3Q12, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-10	Client Sample Name: DUPE-6-3Q12, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 22:39	MGC	MS-V5	1	BV10544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216753-10	Client Sample Name: DUPE-6-3Q12, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 22:39	MGC	MS-V5	1	BVI0544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216753-10	Client Sample Name: DUPE-6-3Q12, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 18:38	LD1	IC6	1	BVI0783



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216753-10	Client Sample Name: DUPE-6-3Q12, 9/5/2012 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/06/12	09/06/12 07:37	TDC	KONE-1	1	BVI0558
2	EPA-200.8	09/12/12	09/12/12 18:03	SRM	PE-EL2	1	BVI0799



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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-11 Client Sample Name: MW-24-2, 9/5/2012 1:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	0.29	ug/L	0.50	0.18	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.33	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.14	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-11 **Client Sample Name:** MW-24-2, 9/5/2012 1:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.13	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.090	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-11	Client Sample Name: MW-24-2, 9/5/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 23:02	MGC	MS-V5	1	BV10544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216753-11	Client Sample Name: MW-24-2, 9/5/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 23:02	MGC	MS-V5	1	BVI0544

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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216753-11	Client Sample Name: MW-24-2, 9/5/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	14	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/11/12	09/11/12 18:51	LD1	IC6	1	BVI0783

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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216753-11	Client Sample Name: MW-24-2, 9/5/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0015	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/06/12	09/06/12 07:37	TDC	KONE-1	1	BVI0558
2	EPA-200.8	09/12/12	09/12/12 18:06	SRM	PE-EL2	1	BVI0799

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505 King Ave.
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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-12	Client Sample Name: MW-24-1, 9/5/2012 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	1.2	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	0.28	ug/L	0.50	0.27	EPA-524.2	ND	J	1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	1.5	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	0.86	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-12	Client Sample Name: MW-24-1, 9/5/2012 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216753-12	Client Sample Name: MW-24-1, 9/5/2012 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 23:24	MGC	MS-V5	1	BV10544

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216753-12	Client Sample Name: MW-24-1, 9/5/2012 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 23:24	MGC	MS-V5	1	BVI0544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216753-12	Client Sample Name: MW-24-1, 9/5/2012 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	53	mg/L	0.50	0.066	EPA-300.0	ND		1
Nitrate as N	1.2	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	40	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	3.9	ug/L	4.0	0.81	EPA-314.0	ND	J	3
ortho-Phosphate as P	0.011	mg/L	0.020	0.0026	EPA-365.1	ND	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	09/07/12	09/07/12 08:54	LD1	IC2	1	BVI0407
2	EPA-353.2	09/07/12	09/07/12 09:50	TDC	KONE-1	1	BVI0598
3	EPA-314.0	09/11/12	09/11/12 19:05	LD1	IC6	1	BVI0783
4	EPA-365.1	09/07/12	09/07/12 09:27	TDC	KONE-1	1	BVI0604



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216753-12	Client Sample Name: MW-24-1, 9/5/2012 1:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/06/12	09/06/12 07:37	TDC	KONE-1	1	BVI0558
2	EPA-200.8	09/12/12	09/12/12 18:09	SRM	PE-EL2	1	BVI0799

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0543						
Benzene	BVI0543-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0543-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0543-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0543-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0543-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0543-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0543-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0543-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0543-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0543-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0543-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0543-BLK1	ND	ug/L	0.50	0.14	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0543						
trans-1,3-Dichloropropene	BVI0543-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0543-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0543-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0543-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0543-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0543-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0543-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0543-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0543-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0543-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVI0543-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0543-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0543-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0543-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0543-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0543-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0543-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0543-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0543-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0543-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0543-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0543-BLK1	ND	ug/L	10	1.7	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BVI0543

Methyl ethyl ketone	BVI0543-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0543-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0543-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0543-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0543-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0543-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0543-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0543-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0543-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0543-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0543-BLK1	96.6	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0543-BLK1	99.1	%	80 - 120 (LCL - UCL)		

QC Batch ID: BVI0544

Benzene	BVI0544-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0544-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0544-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0544-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0544-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0544-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0544-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0544-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0544-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0544-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0544-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0544-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0544-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0544-BLK1	ND	ug/L	0.50	0.24	

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505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0544						
1,2-Dichlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0544-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0544-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0544-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0544-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0544-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0544-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0544-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0544-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0544-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BVI0544-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0544-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0544-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0544-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0544-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0544-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0544-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0544-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0544-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0544-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0544-BLK1	ND	ug/L	0.50	0.13	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0544						
1,2,3-Trichloropropane	BVI0544-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0544-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0544-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0544-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0544-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0544-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0544-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0544-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0544-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0544-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0544-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BVI0544-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0544-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0544-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0544-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0544-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0544-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0544-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0544-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0544-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0544-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0544-BLK1	98.3	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0544-BLK1	101	%	80 - 120 (LCL - UCL)		



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVI0543										
Benzene	BVI0543-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
Bromodichloromethane	BVI0543-BS1	LCS	25.160	25.000	ug/L	101		70 - 130		
Chlorobenzene	BVI0543-BS1	LCS	24.180	25.000	ug/L	96.7		70 - 130		
Chloroethane	BVI0543-BS1	LCS	26.190	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BVI0543-BS1	LCS	25.350	25.000	ug/L	101		70 - 130		
1,1-Dichloroethane	BVI0543-BS1	LCS	24.740	25.000	ug/L	99.0		70 - 130		
1,1-Dichloroethene	BVI0543-BS1	LCS	27.340	25.000	ug/L	109		70 - 130		
Toluene	BVI0543-BS1	LCS	25.110	25.000	ug/L	100		70 - 130		
Trichloroethene	BVI0543-BS1	LCS	25.540	25.000	ug/L	102		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0543-BS1	LCS	9.7500	10.000	ug/L	97.5		75 - 125		
Toluene-d8 (Surrogate)	BVI0543-BS1	LCS	9.9000	10.000	ug/L	99.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0543-BS1	LCS	9.9200	10.000	ug/L	99.2		80 - 120		
QC Batch ID: BVI0544										
Benzene	BVI0544-BS1	LCS	24.550	25.000	ug/L	98.2		70 - 130		
Bromodichloromethane	BVI0544-BS1	LCS	25.910	25.000	ug/L	104		70 - 130		
Chlorobenzene	BVI0544-BS1	LCS	24.040	25.000	ug/L	96.2		70 - 130		
Chloroethane	BVI0544-BS1	LCS	25.930	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	BVI0544-BS1	LCS	25.480	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	BVI0544-BS1	LCS	25.090	25.000	ug/L	100		70 - 130		
1,1-Dichloroethene	BVI0544-BS1	LCS	26.550	25.000	ug/L	106		70 - 130		
Toluene	BVI0544-BS1	LCS	24.450	25.000	ug/L	97.8		70 - 130		
Trichloroethene	BVI0544-BS1	LCS	26.090	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0544-BS1	LCS	10.360	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BVI0544-BS1	LCS	9.9200	10.000	ug/L	99.2		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0544-BS1	LCS	10.270	10.000	ug/L	103		80 - 120		



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0543		Used client sample: Y - Description: MW-11-4, 08/31/2012 08:35								
Benzene	MS	1216488-02	ND	24.430	25.000	ug/L		97.7		70 - 130
	MSD	1216488-02	ND	24.180	25.000	ug/L	1.0	96.7	20	70 - 130
Bromodichloromethane	MS	1216488-02	ND	25.150	25.000	ug/L		101		70 - 130
	MSD	1216488-02	ND	24.850	25.000	ug/L	1.2	99.4	20	70 - 130
Chlorobenzene	MS	1216488-02	ND	24.460	25.000	ug/L		97.8		70 - 130
	MSD	1216488-02	ND	23.630	25.000	ug/L	3.5	94.5	20	70 - 130
Chloroethane	MS	1216488-02	ND	26.580	25.000	ug/L		106		70 - 130
	MSD	1216488-02	ND	25.960	25.000	ug/L	2.4	104	20	70 - 130
1,4-Dichlorobenzene	MS	1216488-02	ND	25.480	25.000	ug/L		102		70 - 130
	MSD	1216488-02	ND	24.650	25.000	ug/L	3.3	98.6	20	70 - 130
1,1-Dichloroethane	MS	1216488-02	ND	25.100	25.000	ug/L		100		70 - 130
	MSD	1216488-02	ND	24.220	25.000	ug/L	3.6	96.9	20	70 - 130
1,1-Dichloroethene	MS	1216488-02	ND	26.770	25.000	ug/L		107		70 - 130
	MSD	1216488-02	ND	25.940	25.000	ug/L	3.1	104	20	70 - 130
Toluene	MS	1216488-02	ND	24.590	25.000	ug/L		98.4		70 - 130
	MSD	1216488-02	ND	24.780	25.000	ug/L	0.8	99.1	20	70 - 130
Trichloroethene	MS	1216488-02	ND	24.640	25.000	ug/L		98.6		70 - 130
	MSD	1216488-02	ND	24.730	25.000	ug/L	0.4	98.9	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216488-02	ND	9.8700	10.000	ug/L		98.7		75 - 125
	MSD	1216488-02	ND	9.6200	10.000	ug/L	2.6	96.2		75 - 125
Toluene-d8 (Surrogate)	MS	1216488-02	ND	9.7500	10.000	ug/L		97.5		80 - 120
	MSD	1216488-02	ND	9.7600	10.000	ug/L	0.1	97.6		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216488-02	ND	10.000	10.000	ug/L		100		80 - 120
	MSD	1216488-02	ND	9.6600	10.000	ug/L	3.5	96.6		80 - 120

QC Batch ID: BVI0544		Used client sample: Y - Description: MW-12-3, 09/05/2012 09:00								
Benzene	MS	1216753-04	ND	24.550	25.000	ug/L		98.2		70 - 130
	MSD	1216753-04	ND	26.770	25.000	ug/L	8.7	107	20	70 - 130
Bromodichloromethane	MS	1216753-04	ND	25.850	25.000	ug/L		103		70 - 130
	MSD	1216753-04	ND	27.110	25.000	ug/L	4.8	108	20	70 - 130
Chlorobenzene	MS	1216753-04	ND	24.250	25.000	ug/L		97.0		70 - 130
	MSD	1216753-04	ND	26.480	25.000	ug/L	8.8	106	20	70 - 130
Chloroethane	MS	1216753-04	ND	25.850	25.000	ug/L		103		70 - 130
	MSD	1216753-04	ND	28.600	25.000	ug/L	10.1	114	20	70 - 130
1,4-Dichlorobenzene	MS	1216753-04	ND	25.700	25.000	ug/L		103		70 - 130
	MSD	1216753-04	ND	27.640	25.000	ug/L	7.3	111	20	70 - 130
1,1-Dichloroethane	MS	1216753-04	ND	25.110	25.000	ug/L		100		70 - 130
	MSD	1216753-04	ND	27.200	25.000	ug/L	8.0	109	20	70 - 130

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0544		Used client sample: Y - Description: MW-12-3, 09/05/2012 09:00								
1,1-Dichloroethene	MS	1216753-04	ND	26.280	25.000	ug/L		105		70 - 130
	MSD	1216753-04	ND	28.410	25.000	ug/L	7.8	114	20	70 - 130
Toluene	MS	1216753-04	ND	24.430	25.000	ug/L		97.7		70 - 130
	MSD	1216753-04	ND	26.330	25.000	ug/L	7.5	105	20	70 - 130
Trichloroethene	MS	1216753-04	0.12000	24.680	25.000	ug/L		98.2		70 - 130
	MSD	1216753-04	0.12000	26.400	25.000	ug/L	6.7	105	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216753-04	ND	9.9900	10.000	ug/L		99.9		75 - 125
	MSD	1216753-04	ND	9.8000	10.000	ug/L	1.9	98.0		75 - 125
Toluene-d8 (Surrogate)	MS	1216753-04	ND	9.8400	10.000	ug/L		98.4		80 - 120
	MSD	1216753-04	ND	9.8400	10.000	ug/L	0	98.4		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216753-04	ND	10.220	10.000	ug/L		102		80 - 120
	MSD	1216753-04	ND	10.120	10.000	ug/L	1.0	101		80 - 120



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
-------------	--------------	-----------	-------	-----	-----	-----------

QC Batch ID: BVI0543

Chloroacetonitrile	BVI0543-BLK1	0	ug/L			
1-Chlorobutane	BVI0543-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0543-BLK1	0	ug/L			
Methyl acrylate	BVI0543-BLK1	0	ug/L			
Nitrobenzene	BVI0543-BLK1	0	ug/L			
2-Nitropropane	BVI0543-BLK1	0	ug/L			

QC Batch ID: BVI0544

Chloroacetonitrile	BVI0544-BLK1	0	ug/L			
1-Chlorobutane	BVI0544-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0544-BLK1	0	ug/L			
Methyl acrylate	BVI0544-BLK1	0	ug/L			
Nitrobenzene	BVI0544-BLK1	0	ug/L			
2-Nitropropane	BVI0544-BLK1	0	ug/L			



Battelle MHTS
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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0407						
Chloride	BVI0407-BLK1	ND	mg/L	0.50	0.066	
Nitrate as N	BVI0407-BLK1	ND	mg/L	0.10	0.021	
Sulfate	BVI0407-BLK1	ND	mg/L	1.0	0.12	
QC Batch ID: BVI0598						
Nitrite as N	BVI0598-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BVI0604						
ortho-Phosphate as P	BVI0604-BLK1	ND	mg/L	0.020	0.0026	
QC Batch ID: BVI0783						
Perchlorate	BVI0783-BLK1	ND	ug/L	4.0	0.81	



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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0407										
Chloride	BVI0407-BS1	LCS	52.966	50.000	mg/L	106		90 - 110		
Nitrate as N	BVI0407-BS1	LCS	5.2530	5.0000	mg/L	105		90 - 110		
Sulfate	BVI0407-BS1	LCS	106.39	100.00	mg/L	106		90 - 110		
QC Batch ID: BVI0598										
Nitrite as N	BVI0598-BS1	LCS	0.47054	0.50000	mg/L	94.1		90 - 110		
QC Batch ID: BVI0604										
ortho-Phosphate as P	BVI0604-BS1	LCS	0.20040	0.20000	mg/L	100		90 - 110		
QC Batch ID: BVI0783										
Perchlorate	BVI0783-BS1	LCS	11.445	10.000	ug/L	114		85 - 115		



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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0407		Used client sample: N								
Chloride	DUP	1216793-01	7.0630	7.0700		mg/L	0.1		10	
	MS	1216793-01	7.0630	60.647	50.505	mg/L		106		80 - 120
	MSD	1216793-01	7.0630	60.687	50.505	mg/L	0.1	106	10	80 - 120
Nitrate as N	DUP	1216793-01	0.028000	0.024000		mg/L	15.4		10	J,A02
	MS	1216793-01	0.028000	5.1273	5.0505	mg/L		101		80 - 120
	MSD	1216793-01	0.028000	5.1455	5.0505	mg/L	0.4	101	10	80 - 120
Sulfate	DUP	1216793-01	34.341	34.414		mg/L	0.2		10	
	MS	1216793-01	34.341	142.30	101.01	mg/L		107		80 - 120
	MSD	1216793-01	34.341	142.86	101.01	mg/L	0.4	107	10	80 - 120
QC Batch ID: BVI0598		Used client sample: N								
Nitrite as N	DUP	1216876-01	ND	ND		mg/L			10	
	MS	1216876-01	ND	0.51434	0.52632	mg/L		97.7		90 - 110
	MSD	1216876-01	ND	0.50569	0.52632	mg/L	1.7	96.1	10	90 - 110
QC Batch ID: BVI0604		Used client sample: N								
ortho-Phosphate as P	DUP	1216893-02	0.012229	0.011147		mg/L	9.3		10	J
	MS	1216893-02	0.012229	0.22874	0.21053	mg/L		103		90 - 110
	MSD	1216893-02	0.012229	0.23214	0.21053	mg/L	1.5	104	10	90 - 110
QC Batch ID: BVI0783		Used client sample: Y - Description: MW-12-3, 09/05/2012 09:00								
Perchlorate	DUP	1216753-04	5.0550	4.6350		ug/L	8.7		15	
	MS	1216753-04	5.0550	17.048	10.101	ug/L		119		80 - 120
	MSD	1216753-04	5.0550	16.837	10.101	ug/L	1.2	117	15	80 - 120

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0558						
Hexavalent Chromium	BVI0558-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVI0799						
Total Recoverable Chromium	BVI0799-BLK1	ND	ug/L	3.0	0.50	



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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVI0558											
Hexavalent Chromium	BVI0558-BS1	LCS	0.047256	0.050000	mg/L	94.5		85	115		
QC Batch ID: BVI0799											
Total Recoverable Chromium	BVI0799-BS1	LCS	40.328	40.000	ug/L	101		85	115		



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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVI0558		Used client sample: Y - Description: MW-12-3, 09/05/2012 09:00								
Hexavalent Chromium	DUP	1216753-04	ND	ND		mg/L			10	
	MS	1216753-04	ND	0.050635	0.052632	mg/L		96.2		85 - 115
	MSD	1216753-04	ND	0.050607	0.052632	mg/L	0.1	96.2	10	85 - 115
QC Batch ID: BVI0799		Used client sample: Y - Description: MW-12-3, 09/05/2012 09:00								
Total Recoverable Chromium	DUP	1216753-04	ND	ND		ug/L			20	
	MS	1216753-04	ND	39.639	40.000	ug/L		99.1		70 - 130
	MSD	1216753-04	ND	39.938	40.000	ug/L	0.8	99.8	20	70 - 130



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Reported: 09/20/2012 13:43
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A02 The difference between duplicate readings is less than the PQL.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 09/24/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1216917

Invoice ID: B130483

Enclosed are the results of analyses for samples received by the laboratory on 9/6/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Quality Control Reports

Volatile Organic Analysis (EPA Method 524.2)

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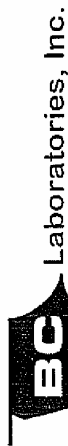
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Chain of Custody Form

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* Required Fields

Report To: Battelle MHTS
 Client: David Conner
 Street Address: 505 King Ave.
 City: Columbus State: OH Zip: 43201
 Phone: (614) 424-5489 Fax: (614) 458-5489
 Email Address: connerd@battelle.org
 Submission #: 12-110917

Project Description: JPL
 Project Code: 3Q12
 Sampler (s): Blaine Tech

Analysis Requested:
 VOCs EPA 524.2
 Total Chromium 200.8
 Perchlorate 314.0
 Hexavalent Chromium 7196
 Chloride, Nitrate, Sulfate
 Orthophosphate 365.1
 Nitrite 353.2

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-1	9-6-12	0800	GW
-2	MW-3-4		0830	
-3	MW-3-3		0930	
-4	MW-3-2		1000	
-5	MW-21-5		1105	
-6	MW-21-4		1135	
-7	MW-21-3		1205	
-8	POPE-7-3Q12		1205	
-9	MW-21-2		1215	
-10	MW-21-1		1315	↓

Notes: Level IV Validation

Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____ *Additional Charges May Apply

Comments: pay w/ credit card
 PLEASE NOTIFY WHICH SAMPLES TO USE FOR QC (MS/MSD).....

Global ID#
 1. Relinquished By: [Signature] Date: 9-6-12 Time: 1530
 2. Relinquished By: [Signature] Date: 9-6-12 Time: 1530
 3. Relinquished By: [Signature] Date: 9-6-12 Time: 2005

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1216917 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 1 Of 1

Submission #: 12-16917

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO

Emissivity: 0.95 Container: OTPE Thermometer ID: 207 Date/Time 9-6-12
 Temperature: (A) 3.8 °C / (C) 4.0 °C Analyst Init JNW 2005

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	ACI									
40ml VOA VIAL		A.3	A.3	A.3	A.3	A.3	A.3	A.3	A.3	A.3
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCLOSURE										

CHK BY: JNW DISTRIBUTION: PRELIMINARY
 SUB-OUT

SHORT HOLDING TIME
 Cr+9 NO₂ NO₃ OP SS
 DO O₂ BOD MBAS COT

Comments: _____
 Sample Numbering Completed By: KIQ Date/Time: 9/7/12
 A = Actual / C = Corrected 0020

LC:\MyDOCS\Work\PerfectLAB_DOCS\FORMS\5AM\EC.21



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216917-01	COC Number:	---	Receive Date:	09/06/2012 20:05
	Project Number:	---	Sampling Date:	09/06/2012 08:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	TB-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Trip Blank
1216917-02	COC Number:	---	Receive Date:	09/06/2012 20:05
	Project Number:	---	Sampling Date:	09/06/2012 08:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-3-4	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
1216917-03	COC Number:	---	Receive Date:	09/06/2012 20:05
	Project Number:	---	Sampling Date:	09/06/2012 09:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-3-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
1216917-04	COC Number:	---	Receive Date:	09/06/2012 20:05
	Project Number:	---	Sampling Date:	09/06/2012 10:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-3-2	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
1216917-05	COC Number:	---	Receive Date:	09/06/2012 20:05
	Project Number:	---	Sampling Date:	09/06/2012 11:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-21-5	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
1216917-06	COC Number:	---	Receive Date:	09/06/2012 20:05
	Project Number:	---	Sampling Date:	09/06/2012 11:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-21-4	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
1216917-07	COC Number:	---	Receive Date:	09/06/2012 20:05
	Project Number:	---	Sampling Date:	09/06/2012 12:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-21-3	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1216917-08	COC Number:	---	Receive Date:	09/06/2012 20:05
	Project Number:	---	Sampling Date:	09/06/2012 12:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	DUPE-7-3Q12	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			
	1216917-09	COC Number:	---	Receive Date:
Project Number:		---	Sampling Date:	09/06/2012 12:45
Sampling Location:		---	Sample Depth:	---
Sampling Point:		MW-21-2	Lab Matrix:	Water
Sampled By:		Blaine Tech	Sample Type:	Groundwater
<hr/>				
1216917-10		COC Number:	---	Receive Date:
	Project Number:	---	Sampling Date:	09/06/2012 13:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-21-1	Lab Matrix:	Water
	Sampled By:	Blaine Tech	Sample Type:	Groundwater
	<hr/>			



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-01	Client Sample Name: TB-1, 9/6/2012 8:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-01	Client Sample Name: TB-1, 9/6/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-01	Client Sample Name: TB-1, 9/6/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 23:47	MGC	MS-V5	1	BV10544

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216917-01	Client Sample Name: TB-1, 9/6/2012 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/10/12 23:47	MGC	MS-V5	1	BVI0544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-02	Client Sample Name: MW-3-4, 9/6/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-02	Client Sample Name: MW-3-4, 9/6/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	0.10	ug/L	0.50	0.098	EPA-524.2	ND	J	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.080	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-02	Client Sample Name: MW-3-4, 9/6/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 00:09	MGC	MS-V5	1	BV10544

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216917-02	Client Sample Name: MW-3-4, 9/6/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 00:09	MGC	MS-V5	1	BVI0544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216917-02	Client Sample Name: MW-3-4, 9/6/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 03:05	LS1	IC6	1	BVI0989

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216917-02	Client Sample Name: MW-3-4, 9/6/2012 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.77	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/07/12	09/07/12 07:53	TDC	KONE-1	1	BVI0592
2	EPA-200.8	09/14/12	09/14/12 16:12	SRM	PE-EL2	1	BVI1040



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-03 **Client Sample Name:** MW-3-3, 9/6/2012 9:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-03	Client Sample Name: MW-3-3, 9/6/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	1.2	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	1.0	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	0.20	ug/L	0.50	0.093	EPA-524.2	ND	J	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-03	Client Sample Name: MW-3-3, 9/6/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 00:32	MGC	MS-V5	1	BV10544

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216917-03	Client Sample Name: MW-3-3, 9/6/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 00:32	MGC	MS-V5	1	BVI0544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216917-03	Client Sample Name: MW-3-3, 9/6/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 04:24	LS1	IC6	1	BVI0989

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216917-03	Client Sample Name: MW-3-3, 9/6/2012 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/07/12	09/07/12 07:53	TDC	KONE-1	1	BVI0592
2	EPA-200.8	09/14/12	09/14/12 16:31	SRM	PE-EL2	1	BVI1040

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Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-04	Client Sample Name: MW-3-2, 9/6/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-04	Client Sample Name: MW-3-2, 9/6/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-04	Client Sample Name: MW-3-2, 9/6/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 00:54	MGC	MS-V5	1	BV10544

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216917-04	Client Sample Name: MW-3-2, 9/6/2012 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 00:54	MGC	MS-V5	1	BVI0544

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216917-04	Client Sample Name: MW-3-2, 9/6/2012 10:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 04:38	LS1	IC6	1	BVI0989

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216917-04	Client Sample Name: MW-3-2, 9/6/2012 10:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/07/12	09/07/12 08:13	TDC	KONE-1	1	BVI0592
2	EPA-200.8	09/14/12	09/14/12 16:40	SRM	PE-EL2	1	BVI1040



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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-05		Client Sample Name: MW-21-5, 9/6/2012 11:05:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	6.2	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.090	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-05	Client Sample Name: MW-21-5, 9/6/2012 11:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.75	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-05	Client Sample Name: MW-21-5, 9/6/2012 11:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 01:17	MGC	MS-V5	1	BV10544

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216917-05	Client Sample Name: MW-21-5, 9/6/2012 11:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 01:17	MGC	MS-V5	1	BVI0544

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216917-05	Client Sample Name: MW-21-5, 9/6/2012 11:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 04:51	LS1	IC6	1	BVI0989



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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216917-05	Client Sample Name: MW-21-5, 9/6/2012 11:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	0.75	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/07/12	09/07/12 07:53	TDC	KONE-1	1	BVI0592
2	EPA-200.8	09/14/12	09/14/12 16:43	SRM	PE-EL2	1	BVI1040



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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-06	Client Sample Name: MW-21-4, 9/6/2012 11:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	6.8	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-06 **Client Sample Name:** MW-21-4, 9/6/2012 11:35:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.66	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.10	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-06	Client Sample Name: MW-21-4, 9/6/2012 11:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 01:39	MGC	MS-V5	1	BV10544

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Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216917-06	Client Sample Name: MW-21-4, 9/6/2012 11:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 01:39	MGC	MS-V5	1	BVI0544

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216917-06	Client Sample Name: MW-21-4, 9/6/2012 11:35:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 05:04	LS1	IC6	1	BVI0989

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216917-06	Client Sample Name: MW-21-4, 9/6/2012 11:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.73	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/07/12	09/07/12 07:53	TDC	KONE-1	1	BVI0592
2	EPA-200.8	09/14/12	09/14/12 16:46	SRM	PE-EL2	1	BVI1040



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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-07		Client Sample Name: MW-21-3, 9/6/2012 12:05:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	4.2	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.11	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.73	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-07	Client Sample Name: MW-21-3, 9/6/2012 12:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.18	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	3.8	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.66	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-07	Client Sample Name: MW-21-3, 9/6/2012 12:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 02:02	MGC	MS-V5	1	BV10544

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505 King Ave.
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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216917-07	Client Sample Name: MW-21-3, 9/6/2012 12:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 02:02	MGC	MS-V5	1	BVI0544

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216917-07	Client Sample Name: MW-21-3, 9/6/2012 12:05:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 05:18	LS1	IC6	1	BVI0989

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216917-07	Client Sample Name: MW-21-3, 9/6/2012 12:05:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.62	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/07/12	09/07/12 07:59	TDC	KONE-1	1	BVI0592
2	EPA-200.8	09/14/12	09/14/12 16:49	SRM	PE-EL2	1	BVI1040



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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-08	Client Sample Name: DUPE-7-3Q12, 9/6/2012 12:05:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	3.4	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.52	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-08	Client Sample Name: DUPE-7-3Q12, 9/6/2012 12:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.20	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	2.6	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.50	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-08	Client Sample Name: DUPE-7-3Q12, 9/6/2012 12:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 02:24	MGC	MS-V5	1	BV10544

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216917-08	Client Sample Name: DUPE-7-3Q12, 9/6/2012 12:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 02:24	MGC	MS-V5	1	BVI0544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216917-08	Client Sample Name: DUPE-7-3Q12, 9/6/2012 12:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 05:31	LS1	IC6	1	BVI0989



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216917-08	Client Sample Name: DUPE-7-3Q12, 9/6/2012 12:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	09/07/12	09/07/12	08:13	TDC	KONE-1	1	BVI0592
2	EPA-200.8	09/14/12	09/14/12	16:52	SRM	PE-EL2	1	BVI1040



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-09	Client Sample Name: MW-21-2, 9/6/2012 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	3.7	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.13	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-09	Client Sample Name: MW-21-2, 9/6/2012 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.22	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	2.0	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.20	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-09	Client Sample Name: MW-21-2, 9/6/2012 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 02:46	MGC	MS-V5	1	BV10544

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216917-09	Client Sample Name: MW-21-2, 9/6/2012 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 02:46	MGC	MS-V5	1	BVI0544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216917-09	Client Sample Name: MW-21-2, 9/6/2012 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 05:44	LS1	IC6	1	BVI0989

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505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216917-09	Client Sample Name: MW-21-2, 9/6/2012 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	09/07/12	09/07/12 07:59	TDC	KONE-1	1	BVI0592
2	EPA-200.8	09/14/12	09/14/12 16:55	SRM	PE-EL2	1	BVI1040

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-10		Client Sample Name: MW-21-1, 9/6/2012 1:15:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	1.4	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.11	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-10	Client Sample Name: MW-21-1, 9/6/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.70	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.13	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216917-10	Client Sample Name: MW-21-1, 9/6/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 03:09	MGC	MS-V5	1	BV10544



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216917-10	Client Sample Name: MW-21-1, 9/6/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/10/12	09/11/12 03:09	MGC	MS-V5	1	BVI0544



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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216917-10	Client Sample Name: MW-21-1, 9/6/2012 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 06:24	LS1	IC6	1	BVI0989

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216917-10	Client Sample Name: MW-21-1, 9/6/2012 1:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/07/12	09/07/12 07:59	TDC	KONE-1	1	BVI0592
2	EPA-200.8	09/14/12	09/14/12 16:58	SRM	PE-EL2	1	BVI1040



Battelle MHTS
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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0544						
Benzene	BVI0544-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0544-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0544-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0544-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0544-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0544-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0544-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0544-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0544-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0544-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0544-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0544-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0544-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0544-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0544-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0544-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0544-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0544-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0544-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0544-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0544-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0544-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0544-BLK1	ND	ug/L	0.50	0.14	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0544						
trans-1,3-Dichloropropene	BVI0544-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0544-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0544-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0544-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0544-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0544-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0544-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2-Tetrachloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0544-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0544-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0544-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0544-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0544-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVI0544-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0544-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0544-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0544-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0544-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0544-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0544-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0544-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0544-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0544-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0544-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0544-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0544-BLK1	ND	ug/L	10	1.7	

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505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0544						
Methyl ethyl ketone	BVI0544-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0544-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0544-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0544-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0544-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0544-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0544-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0544-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0544-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0544-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0544-BLK1	98.3	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0544-BLK1	101	%	80 - 120 (LCL - UCL)		



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0544										
Benzene	BVI0544-BS1	LCS	24.550	25.000	ug/L	98.2		70 - 130		
Bromodichloromethane	BVI0544-BS1	LCS	25.910	25.000	ug/L	104		70 - 130		
Chlorobenzene	BVI0544-BS1	LCS	24.040	25.000	ug/L	96.2		70 - 130		
Chloroethane	BVI0544-BS1	LCS	25.930	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	BVI0544-BS1	LCS	25.480	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	BVI0544-BS1	LCS	25.090	25.000	ug/L	100		70 - 130		
1,1-Dichloroethene	BVI0544-BS1	LCS	26.550	25.000	ug/L	106		70 - 130		
Toluene	BVI0544-BS1	LCS	24.450	25.000	ug/L	97.8		70 - 130		
Trichloroethene	BVI0544-BS1	LCS	26.090	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0544-BS1	LCS	10.360	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BVI0544-BS1	LCS	9.9200	10.000	ug/L	99.2		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0544-BS1	LCS	10.270	10.000	ug/L	103		80 - 120		



Battelle MHTS
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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery		Lab
								RPD	Percent Recovery	
QC Batch ID: BVI0544										
Used client sample: Y - Description: MW-12-3, 09/05/2012 09:00										
Benzene	MS	1216753-04	ND	24.550	25.000	ug/L		98.2		70 - 130
	MSD	1216753-04	ND	26.770	25.000	ug/L	8.7	107	20	70 - 130
Bromodichloromethane	MS	1216753-04	ND	25.850	25.000	ug/L		103		70 - 130
	MSD	1216753-04	ND	27.110	25.000	ug/L	4.8	108	20	70 - 130
Chlorobenzene	MS	1216753-04	ND	24.250	25.000	ug/L		97.0		70 - 130
	MSD	1216753-04	ND	26.480	25.000	ug/L	8.8	106	20	70 - 130
Chloroethane	MS	1216753-04	ND	25.850	25.000	ug/L		103		70 - 130
	MSD	1216753-04	ND	28.600	25.000	ug/L	10.1	114	20	70 - 130
1,4-Dichlorobenzene	MS	1216753-04	ND	25.700	25.000	ug/L		103		70 - 130
	MSD	1216753-04	ND	27.640	25.000	ug/L	7.3	111	20	70 - 130
1,1-Dichloroethane	MS	1216753-04	ND	25.110	25.000	ug/L		100		70 - 130
	MSD	1216753-04	ND	27.200	25.000	ug/L	8.0	109	20	70 - 130
1,1-Dichloroethene	MS	1216753-04	ND	26.280	25.000	ug/L		105		70 - 130
	MSD	1216753-04	ND	28.410	25.000	ug/L	7.8	114	20	70 - 130
Toluene	MS	1216753-04	ND	24.430	25.000	ug/L		97.7		70 - 130
	MSD	1216753-04	ND	26.330	25.000	ug/L	7.5	105	20	70 - 130
Trichloroethene	MS	1216753-04	0.12000	24.680	25.000	ug/L		98.2		70 - 130
	MSD	1216753-04	0.12000	26.400	25.000	ug/L	6.7	105	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216753-04	ND	9.9900	10.000	ug/L		99.9		75 - 125
	MSD	1216753-04	ND	9.8000	10.000	ug/L	1.9	98.0		75 - 125
Toluene-d8 (Surrogate)	MS	1216753-04	ND	9.8400	10.000	ug/L		98.4		80 - 120
	MSD	1216753-04	ND	9.8400	10.000	ug/L	0	98.4		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216753-04	ND	10.220	10.000	ug/L		102		80 - 120
	MSD	1216753-04	ND	10.120	10.000	ug/L	1.0	101		80 - 120

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0544						
Chloroacetonitrile	BVI0544-BLK1	0	ug/L			
1-Chlorobutane	BVI0544-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0544-BLK1	0	ug/L			
Methyl acrylate	BVI0544-BLK1	0	ug/L			
Nitrobenzene	BVI0544-BLK1	0	ug/L			
2-Nitropropane	BVI0544-BLK1	0	ug/L			



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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0989						
Perchlorate	BVI0989-BLK1	ND	ug/L	4.0	0.81	



Battelle MHTS
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Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0989										
Perchlorate	BVI0989-BS1	LCS	11.362	10.000	ug/L	114		85	115	



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BVI0989		Used client sample: Y - Description: MW-3-4, 09/06/2012 08:30									
Perchlorate	DUP	1216917-02	ND	ND		ug/L				15	
	MS	1216917-02	ND	9.3533	10.101	ug/L		92.6		80 - 120	
	MSD	1216917-02	ND	9.7546	10.101	ug/L	4.2	96.6	15	80 - 120	

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Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0592						
Hexavalent Chromium	BVI0592-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVI1040						
Total Recoverable Chromium	BVI1040-BLK1	ND	ug/L	3.0	0.50	



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0592										
Hexavalent Chromium	BVI0592-BS1	LCS	0.046474	0.050000	mg/L	92.9		85	115	
QC Batch ID: BVI1040										
Total Recoverable Chromium	BVI1040-BS1	LCS	42.443	40.000	ug/L	106		85	115	



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVI0592		Used client sample: Y - Description: MW-3-4, 09/06/2012 08:30								
Hexavalent Chromium	DUP	1216917-02	ND	ND		mg/L			10	
	MS	1216917-02	ND	0.043022	0.050000	mg/L		86.0		85 - 115
	MSD	1216917-02	ND	0.042978	0.050000	mg/L	0.1	86.0	10	85 - 115
QC Batch ID: BVI1040		Used client sample: Y - Description: MW-3-4, 09/06/2012 08:30								
Total Recoverable Chromium	DUP	1216917-02	0.76700	0.86200		ug/L	11.7		20	J
	MS	1216917-02	0.76700	41.874	40.000	ug/L		103		70 - 130
	MSD	1216917-02	0.76700	42.784	40.000	ug/L	2.1	105	20	70 - 130

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/24/2012 15:28
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 10/24/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1216984

Invoice ID: B130713

Enclosed are the results of analyses for samples received by the laboratory on 9/7/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form

BC Laboratories, Inc.

Page 1 of 1

Report To: Battelle MHTS
Client: David Conner
Street Address: 505 King Ave.
City: Columbus **State:** OH **Zip:** 43201
Phone#: 614 424 - 5489 **Fax#:** 614 458 - 5489
Email Address: connerd@battelle.org
Submission #: 12-10984

Project Description: JPL
Project Code: 3Q12
Sampler(s): Blaine Tech

Analysis Requested:
 Nitrite 353.2
 Orthophosphate 365.1
 Chloride, Nitrate, Sulfate
 Hexavalent Chromium 7196
 Perchlorate 314.0
 Total Chromium 200.8
 VOCs EPA 524.2

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-1	9-7-12	0700	GW
-2	MW-13		0755	
-3	MW-10		1010	
-4	MW-6		1125	
-5	MW-5		1305	

Notes: MS/MSD
 CHK BY: DISTRIBUTION
 Y10
 SUB-OUT

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)

Lab TAT Approval: _____ * Additional Charges May Apply

Comments: pay w/ credit card
 PLEASE NOTIFY WHICH SAMPLES TO USE FOR QC (MS/MSD).....

Global ID: _____
 1. Relinquished By: _____ Date: 9-7-12 Time: 1315
 2. Relinquished By: _____ Date: 9-7-12 Time: 2000
 3. Relinquished By: _____ Date: 9-7-12 Time: 2000

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

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Chain of Custody and Cooler Receipt Form for 1216984 Page 2 of 2

BC LABORATORIES INC.		COOLER RECEIPT FORM		Rev. No. 12	12/30/10	Page 1 Of 1
Submission #: 12-16984						
SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments:						
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>						
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match CDC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.95 Container: QTPR Thermometer ID: 207		Date/Time 9-7-12		Analyst Init JNW 2000
		Temperature: (A) 2.0 °C / (C) 2.2 °C				

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL		B	B	B						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C						
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A4	A3	A3						
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERRIC IRON										
ENCORE										

Comments:
 Sample Numbering Completed By: JNW Date/Time: 9/7/12 2015
 A = Actual / C = Corrected

IC:\MyDOCS\Ward\Perfec\LAB_DOCS\FORMS\5AMHEC21



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1216984-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-1 Sampled By: Blaine Tech of BAT	Receive Date: 09/07/2012 20:00 Sampling Date: 09/07/2012 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1216984-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-13 Sampled By: Blaine Tech of BAT	Receive Date: 09/07/2012 20:00 Sampling Date: 09/07/2012 07:55 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-13 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1216984-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-10 Sampled By: Blaine Tech of BAT	Receive Date: 09/07/2012 20:00 Sampling Date: 09/07/2012 10:10 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-10 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1216984-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-6 Sampled By: Blaine Tech of BAT	Receive Date: 09/07/2012 20:00 Sampling Date: 09/07/2012 11:25 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1216984-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-5 Sampled By: Blaine Tech of BAT	Receive Date: 09/07/2012 20:00 Sampling Date: 09/07/2012 13:05 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-01	Client Sample Name: JPL-GW, TB-1, 9/7/2012 7:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-01	Client Sample Name: JPL-GW, TB-1, 9/7/2012 7:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-01	Client Sample Name: JPL-GW, TB-1, 9/7/2012 7:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 12:35	MGC	MS-V5	1	BV10656



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216984-01	Client Sample Name: JPL-GW, TB-1, 9/7/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 12:35	MGC	MS-V5	1	BVI0656



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-02	Client Sample Name: JPL-GW, MW-13, 9/7/2012 7:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	0.96	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	0.66	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	4.7	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	0.18	ug/L	0.50	0.13	EPA-524.2	ND	J	1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-02	Client Sample Name: JPL-GW, MW-13, 9/7/2012 7:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.18	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.24	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-02	Client Sample Name: JPL-GW, MW-13, 9/7/2012 7:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 10:20	MGC	MS-V5	1	BV10656

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216984-02	Client Sample Name: JPL-GW, MW-13, 9/7/2012 7:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 10:20	MGC	MS-V5	1	BVI0656



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216984-02	Client Sample Name: JPL-GW, MW-13, 9/7/2012 7:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	58	mg/L	0.50	0.066	EPA-300.0	ND		1
Nitrate as N	2.2	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	43	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	110	ug/L	40	8.1	EPA-314.0	ND	A01	3
ortho-Phosphate as P	0.060	mg/L	0.020	0.0026	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	09/07/12	09/08/12 01:27	LD1	IC5	1	BVI0545
2	EPA-353.2	09/07/12	09/07/12 22:13	LS1	KONE-1	1	BVI0608
3	EPA-314.0	09/20/12	09/21/12 10:20	LS1	IC6	10	BVI0985
4	EPA-365.1	09/07/12	09/07/12 22:15	TDC	KONE-1	1	BVI0610



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216984-02	Client Sample Name: JPL-GW, MW-13, 9/7/2012 7:55:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0049	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	11	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/07/12	09/07/12 21:31	TDC	KONE-1	1	BVI0612
2	EPA-200.8	09/13/12	09/13/12 16:50	SRM	PE-EL2	1	BVI0907

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Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-03	Client Sample Name: JPL-GW, MW-10, 9/7/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.35	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-03	Client Sample Name: JPL-GW, MW-10, 9/7/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.16	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.3	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-03	Client Sample Name: JPL-GW, MW-10, 9/7/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 12:57	MGC	MS-V5	1	BV10656



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216984-03	Client Sample Name: JPL-GW, MW-10, 9/7/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 12:57	MGC	MS-V5	1	BVI0656



Battelle MHTS
505 King Ave.
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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216984-03	Client Sample Name: JPL-GW, MW-10, 9/7/2012 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.7	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 07:04	LS1	IC6	1	BVI0985

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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216984-03	Client Sample Name: JPL-GW, MW-10, 9/7/2012 10:10:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	23	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/07/12	09/07/12 21:31	TDC	KONE-1	1	BVI0612
2	EPA-200.8	09/13/12	09/13/12 17:32	SRM	PE-EL2	1	BVI0907



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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-04	Client Sample Name: JPL-GW, MW-6, 9/7/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.69	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.29	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	0.29	ug/L	0.50	0.18	EPA-524.2	ND	J	1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-04	Client Sample Name: JPL-GW, MW-6, 9/7/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	1.2	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	3.1	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-04	Client Sample Name: JPL-GW, MW-6, 9/7/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 13:20	MGC	MS-V5	1	BV10656

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505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216984-04	Client Sample Name: JPL-GW, MW-6, 9/7/2012 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 13:20	MGC	MS-V5	1	BVI0656

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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216984-04	Client Sample Name: JPL-GW, MW-6, 9/7/2012 11:25:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.4	ug/L	4.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 07:57	LS1	IC6	1	BVI0985



Battelle MHTS
505 King Ave.
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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216984-04	Client Sample Name: JPL-GW, MW-6, 9/7/2012 11:25:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/07/12	09/07/12 21:31	TDC	KONE-1	1	BVI0612
2	EPA-200.8	09/13/12	09/13/12 17:35	SRM	PE-EL2	1	BVI0907



Battelle MHTS
505 King Ave.
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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-05	Client Sample Name: JPL-GW, MW-5, 9/7/2012 1:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-05	Client Sample Name: JPL-GW, MW-5, 9/7/2012 1:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1216984-05	Client Sample Name: JPL-GW, MW-5, 9/7/2012 1:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 13:42	MGC	MS-V5	1	BV10656



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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1216984-05	Client Sample Name: JPL-GW, MW-5, 9/7/2012 1:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 13:42	MGC	MS-V5	1	BVI0656



Battelle MHTS
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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1216984-05	Client Sample Name: JPL-GW, MW-5, 9/7/2012 1:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	09/20/12	09/21/12 08:10	LS1	IC6	1	BVI0985



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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1216984-05	Client Sample Name: JPL-GW, MW-5, 9/7/2012 1:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/07/12	09/07/12 21:31	TDC	KONE-1	1	BVI0612
2	EPA-200.8	09/13/12	09/13/12 17:38	SRM	PE-EL2	1	BVI0907



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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0656						
Benzene	BVI0656-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0656-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0656-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0656-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0656-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0656-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0656-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0656-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0656-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0656-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0656-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0656-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0656-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0656-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0656-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0656-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0656-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0656-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0656-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0656-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVI0656-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0656-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0656-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0656-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0656-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0656-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0656-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0656-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0656-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0656-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0656-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0656-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0656-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0656-BLK1	ND	ug/L	0.50	0.14	

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505 King Ave.
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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0656						
trans-1,3-Dichloropropene	BVI0656-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0656-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0656-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0656-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0656-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0656-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0656-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0656-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0656-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0656-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0656-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVI0656-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0656-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0656-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0656-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0656-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0656-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0656-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0656-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0656-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVI0656-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0656-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0656-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0656-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0656-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0656-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0656-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0656-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0656-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0656-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0656-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0656-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0656-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0656-BLK1	ND	ug/L	10	1.7	

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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0656						
Methyl ethyl ketone	BVI0656-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0656-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0656-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0656-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0656-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0656-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0656-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0656-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0656-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0656-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0656-BLK1	98.5	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0656-BLK1	98.5	%	80 - 120 (LCL - UCL)		



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Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0656										
Benzene	BVI0656-BS1	LCS	23.630	25.000	ug/L	94.5		70 - 130		
Bromodichloromethane	BVI0656-BS1	LCS	25.140	25.000	ug/L	101		70 - 130		
Chlorobenzene	BVI0656-BS1	LCS	23.740	25.000	ug/L	95.0		70 - 130		
Chloroethane	BVI0656-BS1	LCS	25.250	25.000	ug/L	101		70 - 130		
1,4-Dichlorobenzene	BVI0656-BS1	LCS	25.420	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	BVI0656-BS1	LCS	23.960	25.000	ug/L	95.8		70 - 130		
1,1-Dichloroethene	BVI0656-BS1	LCS	25.850	25.000	ug/L	103		70 - 130		
Toluene	BVI0656-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
Trichloroethene	BVI0656-BS1	LCS	24.550	25.000	ug/L	98.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0656-BS1	LCS	9.6200	10.000	ug/L	96.2		75 - 125		
Toluene-d8 (Surrogate)	BVI0656-BS1	LCS	10.000	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0656-BS1	LCS	10.280	10.000	ug/L	103		80 - 120		



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Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0656		Used client sample: Y - Description: MW-13, 09/07/2012 07:55								
Benzene	MS	1216984-02	ND	24.640	25.000	ug/L		98.6		70 - 130
	MSD	1216984-02	ND	24.830	25.000	ug/L	0.8	99.3	20	70 - 130
Bromodichloromethane	MS	1216984-02	0.96000	27.000	25.000	ug/L		104		70 - 130
	MSD	1216984-02	0.96000	26.860	25.000	ug/L	0.5	104	20	70 - 130
Chlorobenzene	MS	1216984-02	ND	24.460	25.000	ug/L		97.8		70 - 130
	MSD	1216984-02	ND	25.150	25.000	ug/L	2.8	101	20	70 - 130
Chloroethane	MS	1216984-02	ND	26.560	25.000	ug/L		106		70 - 130
	MSD	1216984-02	ND	26.620	25.000	ug/L	0.2	106	20	70 - 130
1,4-Dichlorobenzene	MS	1216984-02	ND	25.410	25.000	ug/L		102		70 - 130
	MSD	1216984-02	ND	26.450	25.000	ug/L	4.0	106	20	70 - 130
1,1-Dichloroethane	MS	1216984-02	ND	25.040	25.000	ug/L		100		70 - 130
	MSD	1216984-02	ND	25.180	25.000	ug/L	0.6	101	20	70 - 130
1,1-Dichloroethene	MS	1216984-02	ND	26.650	25.000	ug/L		107		70 - 130
	MSD	1216984-02	ND	26.790	25.000	ug/L	0.5	107	20	70 - 130
Toluene	MS	1216984-02	ND	24.960	25.000	ug/L		99.8		70 - 130
	MSD	1216984-02	ND	25.510	25.000	ug/L	2.2	102	20	70 - 130
Trichloroethene	MS	1216984-02	0.24000	25.270	25.000	ug/L		100		70 - 130
	MSD	1216984-02	0.24000	25.780	25.000	ug/L	2.0	102	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1216984-02	ND	9.7200	10.000	ug/L		97.2		75 - 125
	MSD	1216984-02	ND	9.4900	10.000	ug/L	2.4	94.9		75 - 125
Toluene-d8 (Surrogate)	MS	1216984-02	ND	9.8100	10.000	ug/L		98.1		80 - 120
	MSD	1216984-02	ND	9.8200	10.000	ug/L	0.1	98.2		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1216984-02	ND	10.130	10.000	ug/L		101		80 - 120
	MSD	1216984-02	ND	10.330	10.000	ug/L	2.0	103		80 - 120

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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0656						
Chloroacetonitrile	BVI0656-BLK1	0	ug/L			
1-Chlorobutane	BVI0656-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0656-BLK1	0	ug/L			
Methyl acrylate	BVI0656-BLK1	0	ug/L			
Nitrobenzene	BVI0656-BLK1	0	ug/L			
2-Nitropropane	BVI0656-BLK1	0	ug/L			



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Project: JPL- GW Monitoring Wells
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Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0545						
Chloride	BVI0545-BLK1	ND	mg/L	0.50	0.066	
Nitrate as N	BVI0545-BLK1	ND	mg/L	0.10	0.021	
Sulfate	BVI0545-BLK1	ND	mg/L	1.0	0.12	
QC Batch ID: BVI0608						
Nitrite as N	BVI0608-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BVI0610						
ortho-Phosphate as P	BVI0610-BLK1	ND	mg/L	0.020	0.0026	
QC Batch ID: BVI0985						
Perchlorate	BVI0985-BLK1	ND	ug/L	4.0	0.81	



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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0545										
Chloride	BVI0545-BS1	LCS	50.145	50.000	mg/L	100		90 - 110		
Nitrate as N	BVI0545-BS1	LCS	4.9680	5.0000	mg/L	99.4		90 - 110		
Sulfate	BVI0545-BS1	LCS	100.22	100.00	mg/L	100		90 - 110		
QC Batch ID: BVI0608										
Nitrite as N	BVI0608-BS1	LCS	0.47276	0.50000	mg/L	94.6		90 - 110		
QC Batch ID: BVI0610										
ortho-Phosphate as P	BVI0610-BS1	LCS	0.20147	0.20000	mg/L	101		90 - 110		
QC Batch ID: BVI0985										
Perchlorate	BVI0985-BS1	LCS	11.341	10.000	ug/L	113		85 - 115		

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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0545		Used client sample: Y - Description: MW-13, 09/07/2012 07:55								
Chloride	DUP	1216984-02	57.552	57.252		mg/L	0.5		10	
	MS	1216984-02	57.552	110.53	50.505	mg/L		105		80 - 120
	MSD	1216984-02	57.552	110.49	50.505	mg/L	0.0	105	10	80 - 120
Nitrate as N	DUP	1216984-02	2.2170	2.2210		mg/L	0.2		10	
	MS	1216984-02	2.2170	7.4657	5.0505	mg/L		104		80 - 120
	MSD	1216984-02	2.2170	7.7394	5.0505	mg/L	3.6	109	10	80 - 120
Sulfate	DUP	1216984-02	42.574	42.688		mg/L	0.3		10	
	MS	1216984-02	42.574	150.65	101.01	mg/L		107		80 - 120
	MSD	1216984-02	42.574	151.28	101.01	mg/L	0.4	108	10	80 - 120
QC Batch ID: BVI0608		Used client sample: Y - Description: MW-13, 09/07/2012 07:55								
Nitrite as N	DUP	1216984-02	ND	ND		mg/L			10	
	MS	1216984-02	ND	0.49983	0.52632	mg/L		95.0		90 - 110
	MSD	1216984-02	ND	0.50100	0.52632	mg/L	0.2	95.2	10	90 - 110
QC Batch ID: BVI0610		Used client sample: Y - Description: MW-13, 09/07/2012 07:55								
ortho-Phosphate as P	DUP	1216984-02	0.060014	0.059603		mg/L	0.7		10	
	MS	1216984-02	0.060014	0.28039	0.21053	mg/L		105		90 - 110
	MSD	1216984-02	0.060014	0.27979	0.21053	mg/L	0.2	104	10	90 - 110
QC Batch ID: BVI0985		Used client sample: Y - Description: MW-10, 09/07/2012 10:10								
Perchlorate	DUP	1216984-03	4.6821	4.6726		ug/L	0.2		15	
	MS	1216984-03	4.6821	15.250	10.101	ug/L		105		80 - 120
	MSD	1216984-03	4.6821	15.345	10.101	ug/L	0.6	106	15	80 - 120

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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0612						
Hexavalent Chromium	BVI0612-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVI0907						
Total Recoverable Chromium	BVI0907-BLK1	ND	ug/L	3.0	0.50	



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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0612										
Hexavalent Chromium	BVI0612-BS1	LCS	0.047675	0.050000	mg/L	95.4		85	115	
QC Batch ID: BVI0907										
Total Recoverable Chromium	BVI0907-BS1	LCS	45.828	40.000	ug/L	115		85	115	



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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BVI0612		Used client sample: Y - Description: MW-13, 09/07/2012 07:55									
Hexavalent Chromium	DUP	1216984-02	0.0049430	0.0050740		mg/L	2.6		10		
	MS	1216984-02	0.0049430	0.050800	0.052632	mg/L		87.1		85 - 115	
	MSD	1216984-02	0.0049430	0.052869	0.052632	mg/L	4.0	91.1	10	85 - 115	
QC Batch ID: BVI0907		Used client sample: Y - Description: MW-13, 09/07/2012 07:55									
Total Recoverable Chromium	DUP	1216984-02	11.009	10.195		ug/L	7.7		20		
	MS	1216984-02	11.009	54.726	40.000	ug/L		109		70 - 130	
	MSD	1216984-02	11.009	54.331	40.000	ug/L	0.7	108	20	70 - 130	

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Reported: 10/24/2012 12:38
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 09/28/2012

David Conner

Battelle MHTS

505 King Ave.

Columbus, OH 43201

Project: JPL- GW Monitoring Wells

BC Work Order: 1217062

Invoice ID: B130558

Enclosed are the results of analyses for samples received by the laboratory on 9/10/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody Form

BC Laboratories, Inc.

Page 1 of 1

Required Fields		Project Description: <u>JPL</u>		Billing	
Report To: Battelle MHTS		Project Code: <u>3Q12</u>		Client: <u>Same as client</u>	
Attn: David Conner		Sampler (s): <u>Blaine Tech</u>		Attn: _____	
Street Address: 505 King Ave.		Date		Address: _____	
City: Columbus State: OH Zip: 43201		Time		City: _____	
Phone: 614 424 5489 Fax: 614 458 5489		Matrix*		State: _____	
Email Address: connerd@battelle.org		Date		Zip: _____	
Submission #: <u>12-17062</u>		Time		Are there any tests with holding times? less than or equal to 48 hours?	
Sample #		Date		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Description		Time		*Standard Turnaround = 10	
-1 TB-1		9-10-12		Notes	
-2 MW-16		1005		MS/MSD	
-3 MW-15		1045		MS/MSD	
-4 MW-8		1150		Level IV Validation	
-5 MW-7		↓		Level IV Validation	
CHRY DISTRIBUTION		SHORT HOLDING TIME			
[APV] [MAY] [MAY] [MAY]		[MAY] [MAY] [MAY]			
SUB OUT		CL BCD MBAS CO			
Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other		Turnaround # of working days: * <input type="checkbox"/> 24 Hr Rush <input type="checkbox"/> 48 Hr Rush <input checked="" type="checkbox"/> 3-5 Day Rush <input checked="" type="checkbox"/> Normal (10 - Days)		Lab TAT Approval: _____	
MBU Site <input type="checkbox"/>		CVX RCRA <input type="checkbox"/>		Global ID: _____	
Geotracker 5 File (CA Default) <input type="checkbox"/>		Geotracker 2 File <input type="checkbox"/>		1. Received By: _____ Date: _____ Time: _____	
Other (Specify) _____		Additional Charges May Apply		2. Received By: _____ Date: _____ Time: _____	
Comments: <u>pay w/ credit card</u>		3. Relinquished By: _____ Date: _____ Time: _____		3. Received By: _____ Date: _____ Time: _____	
*****PLEASE NOTIFY WHICH SAMPLES TO USE FOR QC (MS/MSD)*****					

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 12 12/30/10 Page 2 Of 2

Submission #: 12-17062

SHIPPING INFORMATION
Federal Express [] UPS [] Hand Delivery []
BC Lab Field Service [x] Other [] (Specify):

SHIPPING CONTAINER
Ice Chest [x] None []
Box [] Other [] (Specify):

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments:

Custody Seals Ice Chest [] Containers [] None [x] Comments:
Intact? Yes [] No [] Intact? Yes [] No []

All samples received? Yes [x] No [] All samples containers intact? Yes [x] No [] Description(s) match COC? Yes [x] No []

COC Received [x] YES [] NO []
Emissivity: 0.95 Container: OPE Thermometer ID: 207 Date/Time 9/10/12
Temperature: (A) 1.9 °C / (C) 2.1 °C Analyst Init KIQ 1745

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like GENERAL MINERAL, INORGANIC CHEMICAL METALS, etc. with handwritten entries like 'B', 'A', 'C', 'A4', 'A3'.

Comments:
Sample Numbering Completed By: KIQ Date/Time: 9/10/12 1900
A = Actual / C = Corrected

IC:\MyDOCS\Word\Project\LAB_DOCS\FORMS\SAMREC21



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1217062-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-1 Sampled By: Blaine Tech of BAT	Receive Date: 09/10/2012 17:45 Sampling Date: 09/10/2012 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1217062-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-16 Sampled By: Blaine Tech of BAT	Receive Date: 09/10/2012 17:45 Sampling Date: 09/10/2012 10:05 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-16 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1217062-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-15 Sampled By: Blaine Tech of BAT	Receive Date: 09/10/2012 17:45 Sampling Date: 09/10/2012 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-15 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--



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Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1217062-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-8 Sampled By: Blaine Tech of BAT	Receive Date: 09/10/2012 17:45 Sampling Date: 09/10/2012 11:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1217062-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-7 Sampled By: Blaine Tech of BAT	Receive Date: 09/10/2012 17:45 Sampling Date: 09/10/2012 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---



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Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-01	Client Sample Name: JPL-GW, TB-1, 9/10/2012 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-01	Client Sample Name: JPL-GW, TB-1, 9/10/2012 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-01		Client Sample Name: JPL-GW, TB-1, 9/10/2012 7:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 16:19	MGC	MS-V5	1	BVI0657

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1217062-01	Client Sample Name: JPL-GW, TB-1, 9/10/2012 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 16:19	MGC	MS-V5	1	BVI0657



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-02	Client Sample Name: JPL-GW, MW-16, 9/10/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	7.0	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	7.6	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	4.8	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	8.8	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-02	Client Sample Name: JPL-GW, MW-16, 9/10/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-02	Client Sample Name: JPL-GW, MW-16, 9/10/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 16:41	MGC	MS-V5	1	BVI0657

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1217062-02	Client Sample Name: JPL-GW, MW-16, 9/10/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 16:41	MGC	MS-V5	1	BVI0657



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1217062-02	Client Sample Name: JPL-GW, MW-16, 9/10/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	60	mg/L	0.50	0.066	EPA-300.0	0.14		1
Nitrate as N	1.3	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	40	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		3
ortho-Phosphate as P	0.26	mg/L	0.020	0.0026	EPA-365.1	0.013		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	09/10/12	09/11/12 05:41	LD1	IC2	1	BVI0708
2	EPA-353.2	09/11/12	09/11/12 08:16	TDC	KONE-1	1	BVI0718
3	EPA-314.0	09/20/12	09/20/12 23:18	LS1	IC6	1	BVI0988
4	EPA-365.1	09/11/12	09/11/12 07:54	TDC	KONE-1	1	BVI0715

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505 King Ave.
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Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1217062-02	Client Sample Name: JPL-GW, MW-16, 9/10/2012 10:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0061	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	93	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/10/12	09/10/12 22:32	LS1	KONE-1	1	BVI0712
2	EPA-200.8	09/17/12	09/18/12 13:37	SRM	PE-EL2	1	BVI1153



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1217062-03	Client Sample Name: JPL-GW, MW-15, 9/10/2012 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/10/12	09/11/12 02:18	LS1	KONE-1	1	BVI0712
2	EPA-200.8	09/17/12	09/24/12 12:25	SRM	PE-EL2	1	BVI1153



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-04	Client Sample Name: JPL-GW, MW-8, 9/10/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-04	Client Sample Name: JPL-GW, MW-8, 9/10/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-04	Client Sample Name: JPL-GW, MW-8, 9/10/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 17:04	MGC	MS-V5	1	BVI0657



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1217062-04	Client Sample Name: JPL-GW, MW-8, 9/10/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 17:04	MGC	MS-V5	1	BVI0657

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Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1217062-04	Client Sample Name: JPL-GW, MW-8, 9/10/2012 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	9.0	mg/L	0.50	0.066	EPA-300.0	0.14		1
Nitrate as N	0.17	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	21	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		3
ortho-Phosphate as P	0.0083	mg/L	0.020	0.0026	EPA-365.1	0.013	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	09/10/12	09/11/12 05:54	LD1	IC2	1	BVI0708
2	EPA-353.2	09/11/12	09/11/12 08:16	TDC	KONE-1	1	BVI0718
3	EPA-314.0	09/20/12	09/21/12 00:12	LS1	IC6	1	BVI0988
4	EPA-365.1	09/11/12	09/11/12 08:01	TDC	KONE-1	1	BVI0715

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Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1217062-04	Client Sample Name: JPL-GW, MW-8, 9/10/2012 11:50:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	3.7	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/10/12	09/10/12 22:32	LS1	KONE-1	1	BVI0712
2	EPA-200.8	09/17/12	09/18/12 14:10	SRM	PE-EL2	1	BVI1153

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Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-05	Client Sample Name: JPL-GW, MW-7, 9/10/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	11	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	2.2	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	8.7	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	7.1	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-05	Client Sample Name: JPL-GW, MW-7, 9/10/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1

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505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1217062-05	Client Sample Name: JPL-GW, MW-7, 9/10/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 17:26	MGC	MS-V5	1	BV10657



Battelle MHTS
505 King Ave.
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Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1217062-05	Client Sample Name: JPL-GW, MW-7, 9/10/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	09/11/12	09/11/12 17:26	MGC	MS-V5	1	BVI0657



Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1217062-05	Client Sample Name: JPL-GW, MW-7, 9/10/2012 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	62	mg/L	0.50	0.066	EPA-300.0	0.14		1
Nitrate as N	1.3	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	40	mg/L	1.0	0.12	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		3
ortho-Phosphate as P	0.018	mg/L	0.020	0.0026	EPA-365.1	0.013	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	09/10/12	09/11/12 06:08	LD1	IC2	1	BVI0708
2	EPA-353.2	09/11/12	09/11/12 08:16	TDC	KONE-1	1	BVI0718
3	EPA-314.0	09/20/12	09/21/12 00:25	LS1	IC6	1	BVI0988
4	EPA-365.1	09/11/12	09/11/12 07:54	TDC	KONE-1	1	BVI0715



Battelle MHTS
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Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Water Analysis (Metals)

BCL Sample ID: 1217062-05	Client Sample Name: JPL-GW, MW-7, 9/10/2012 1:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	73	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	09/10/12	09/10/12 22:32	LS1	KONE-1	1	BVI0712
2	EPA-200.8	09/17/12	09/18/12 14:13	SRM	PE-EL2	1	BVI1153

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Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0657						
Benzene	BVI0657-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BVI0657-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BVI0657-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BVI0657-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BVI0657-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BVI0657-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BVI0657-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BVI0657-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BVI0657-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BVI0657-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BVI0657-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BVI0657-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BVI0657-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BVI0657-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BVI0657-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BVI0657-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BVI0657-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BVI0657-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BVI0657-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BVI0657-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BVI0657-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BVI0657-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BVI0657-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BVI0657-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BVI0657-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BVI0657-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BVI0657-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BVI0657-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BVI0657-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BVI0657-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BVI0657-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BVI0657-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BVI0657-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BVI0657-BLK1	ND	ug/L	0.50	0.14	

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Battelle MHTS
505 King Ave.
Columbus, OH 43201

Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0657						
trans-1,3-Dichloropropene	BVI0657-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BVI0657-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BVI0657-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BVI0657-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BVI0657-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BVI0657-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BVI0657-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BVI0657-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BVI0657-BLK1	ND	ug/L	0.50	0.11	
Styrene	BVI0657-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BVI0657-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BVI0657-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BVI0657-BLK1	ND	ug/L	0.50	0.13	
Toluene	BVI0657-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BVI0657-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BVI0657-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BVI0657-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BVI0657-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BVI0657-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BVI0657-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BVI0657-BLK1	ND	ug/L	1.0	0.24	
1,2,4-Trimethylbenzene	BVI0657-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BVI0657-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BVI0657-BLK1	ND	ug/L	0.50	0.12	
Acetone	BVI0657-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BVI0657-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BVI0657-BLK1	ND	ug/L	5.0	0.80	
Carbon disulfide	BVI0657-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BVI0657-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BVI0657-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BVI0657-BLK1	ND	ug/L	4.0	0.97	
Hexachloroethane	BVI0657-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BVI0657-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BVI0657-BLK1	ND	ug/L	10	1.7	

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Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0657						
Methyl ethyl ketone	BVI0657-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BVI0657-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BVI0657-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BVI0657-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BVI0657-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BVI0657-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BVI0657-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BVI0657-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVI0657-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BVI0657-BLK1	107	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVI0657-BLK1	97.6	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVI0657-BLK1	95.6	%	80 - 120 (LCL - UCL)		



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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0657										
Benzene	BVI0657-BS1	LCS	24.090	25.000	ug/L	96.4		70 - 130		
Bromodichloromethane	BVI0657-BS1	LCS	25.790	25.000	ug/L	103		70 - 130		
Chlorobenzene	BVI0657-BS1	LCS	24.270	25.000	ug/L	97.1		70 - 130		
Chloroethane	BVI0657-BS1	LCS	25.570	25.000	ug/L	102		70 - 130		
1,4-Dichlorobenzene	BVI0657-BS1	LCS	25.720	25.000	ug/L	103		70 - 130		
1,1-Dichloroethane	BVI0657-BS1	LCS	24.690	25.000	ug/L	98.8		70 - 130		
1,1-Dichloroethene	BVI0657-BS1	LCS	26.040	25.000	ug/L	104		70 - 130		
Toluene	BVI0657-BS1	LCS	24.450	25.000	ug/L	97.8		70 - 130		
Trichloroethene	BVI0657-BS1	LCS	26.000	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVI0657-BS1	LCS	10.480	10.000	ug/L	105		75 - 125		
Toluene-d8 (Surrogate)	BVI0657-BS1	LCS	10.140	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BVI0657-BS1	LCS	10.560	10.000	ug/L	106		80 - 120		



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Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0657		Used client sample: Y - Description: MW-16, 09/10/2012 10:05								
Benzene	MS	1217062-02	ND	24.840	25.000	ug/L		99.4		70 - 130
	MSD	1217062-02	ND	24.600	25.000	ug/L	1.0	98.4	20	70 - 130
Bromodichloromethane	MS	1217062-02	7.0500	32.080	25.000	ug/L		100		70 - 130
	MSD	1217062-02	7.0500	32.480	25.000	ug/L	1.2	102	20	70 - 130
Chlorobenzene	MS	1217062-02	ND	24.020	25.000	ug/L		96.1		70 - 130
	MSD	1217062-02	ND	24.850	25.000	ug/L	3.4	99.4	20	70 - 130
Chloroethane	MS	1217062-02	ND	26.020	25.000	ug/L		104		70 - 130
	MSD	1217062-02	ND	26.190	25.000	ug/L	0.7	105	20	70 - 130
1,4-Dichlorobenzene	MS	1217062-02	ND	24.520	25.000	ug/L		98.1		70 - 130
	MSD	1217062-02	ND	25.770	25.000	ug/L	5.0	103	20	70 - 130
1,1-Dichloroethane	MS	1217062-02	ND	24.820	25.000	ug/L		99.3		70 - 130
	MSD	1217062-02	ND	25.080	25.000	ug/L	1.0	100	20	70 - 130
1,1-Dichloroethene	MS	1217062-02	ND	26.850	25.000	ug/L		107		70 - 130
	MSD	1217062-02	ND	26.520	25.000	ug/L	1.2	106	20	70 - 130
Toluene	MS	1217062-02	ND	24.850	25.000	ug/L		99.4		70 - 130
	MSD	1217062-02	ND	25.200	25.000	ug/L	1.4	101	20	70 - 130
Trichloroethene	MS	1217062-02	ND	24.690	25.000	ug/L		98.8		70 - 130
	MSD	1217062-02	ND	24.570	25.000	ug/L	0.5	98.3	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1217062-02	ND	9.9500	10.000	ug/L		99.5		75 - 125
	MSD	1217062-02	ND	9.8600	10.000	ug/L	0.9	98.6		75 - 125
Toluene-d8 (Surrogate)	MS	1217062-02	ND	9.9200	10.000	ug/L		99.2		80 - 120
	MSD	1217062-02	ND	10.050	10.000	ug/L	1.3	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1217062-02	ND	9.8100	10.000	ug/L		98.1		80 - 120
	MSD	1217062-02	ND	10.130	10.000	ug/L	3.2	101		80 - 120

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Project: JPL- GW Monitoring Wells
Project Number: 3Q12
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0657						
Chloroacetonitrile	BVI0657-BLK1	0	ug/L			
1-Chlorobutane	BVI0657-BLK1	0	ug/L			
1,1-Dichloropropanone	BVI0657-BLK1	0	ug/L			
Methyl acrylate	BVI0657-BLK1	0	ug/L			
Nitrobenzene	BVI0657-BLK1	0	ug/L			
2-Nitropropane	BVI0657-BLK1	0	ug/L			



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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0708						
Chloride	BVI0708-BLK1	0.14300	mg/L	0.50	0.066	J
Nitrate as N	BVI0708-BLK1	ND	mg/L	0.10	0.021	
Sulfate	BVI0708-BLK1	ND	mg/L	1.0	0.12	
QC Batch ID: BVI0715						
ortho-Phosphate as P	BVI0715-BLK1	0.012920	mg/L	0.020	0.0026	J
QC Batch ID: BVI0718						
Nitrite as N	BVI0718-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BVI0988						
Perchlorate	BVI0988-BLK1	ND	ug/L	4.0	0.81	



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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BVI0708										
Chloride	BVI0708-BS1	LCS	51.493	50.000	mg/L	103		90 - 110		
Nitrate as N	BVI0708-BS1	LCS	5.1540	5.0000	mg/L	103		90 - 110		
Sulfate	BVI0708-BS1	LCS	103.14	100.00	mg/L	103		90 - 110		
QC Batch ID: BVI0715										
ortho-Phosphate as P	BVI0715-BS1	LCS	0.20319		mg/L			90 - 110		
QC Batch ID: BVI0718										
Nitrite as N	BVI0718-BS1	LCS	0.47542	0.50000	mg/L	95.1		90 - 110		
QC Batch ID: BVI0988										
Perchlorate	BVI0988-BS1	LCS	10.240	10.000	ug/L	102		85 - 115		



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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BVI0708		Used client sample: Y - Description: MW-16, 09/10/2012 10:05								
Chloride	DUP	1217062-02	60.092	60.269		mg/L	0.3		10	
	MS	1217062-02	60.092	115.09	50.505	mg/L		109		80 - 120
	MSD	1217062-02	60.092	114.48	50.505	mg/L	0.5	108	10	80 - 120
Nitrate as N	DUP	1217062-02	1.2990	1.2800		mg/L	1.5		10	
	MS	1217062-02	1.2990	6.5333	5.0505	mg/L		104		80 - 120
	MSD	1217062-02	1.2990	6.8101	5.0505	mg/L	4.1	109	10	80 - 120
Sulfate	DUP	1217062-02	40.167	40.340		mg/L	0.4		10	
	MS	1217062-02	40.167	149.99	101.01	mg/L		109		80 - 120
	MSD	1217062-02	40.167	149.53	101.01	mg/L	0.3	108	10	80 - 120
QC Batch ID: BVI0715		Used client sample: Y - Description: MW-16, 09/10/2012 10:05								
ortho-Phosphate as P	DUP	1217062-02	0.26404	0.26527		mg/L	0.5		10	
	MS	1217062-02	0.26404	0.48090		mg/L				90 - 110
	MSD	1217062-02	0.26404	0.49056		mg/L	2.0		10	90 - 110
QC Batch ID: BVI0718		Used client sample: Y - Description: MW-16, 09/10/2012 10:05								
Nitrite as N	DUP	1217062-02	ND	ND		mg/L			10	
	MS	1217062-02	ND	0.48450	0.52632	mg/L		92.1		90 - 110
	MSD	1217062-02	ND	0.48597	0.52632	mg/L	0.3	92.3	10	90 - 110
QC Batch ID: BVI0988		Used client sample: Y - Description: MW-16, 09/10/2012 10:05								
Perchlorate	DUP	1217062-02	ND	ND		ug/L			15	
	MS	1217062-02	ND	8.8412	10.101	ug/L		87.5		80 - 120
	MSD	1217062-02	ND	8.5068	10.101	ug/L	3.9	84.2	15	80 - 120

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505 King Ave.
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Reported: 09/28/2012 16:20
Project: JPL- GW Monitoring Wells
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Project Manager: David Conner

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVI0712						
Hexavalent Chromium	BVI0712-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BVI1153						
Total Recoverable Chromium	BVI1153-BLK1	ND	ug/L	3.0	0.50	



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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: BVI0712											
Hexavalent Chromium	BVI0712-BS1	LCS	0.047911	0.050000	mg/L	95.8		85	115		
QC Batch ID: BVI1153											
Total Recoverable Chromium	BVI1153-BS1	LCS	40.524	40.000	ug/L	101		85	115		



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Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BVI0712		Used client sample: Y - Description: MW-16, 09/10/2012 10:05								
Hexavalent Chromium	DUP	1217062-02	0.0060670	0.0057120		mg/L	6.0		10	
	MS	1217062-02	0.0060670	0.055413	0.052632	mg/L		93.8		85 - 115
	MSD	1217062-02	0.0060670	0.055543	0.052632	mg/L	0.2	94.0	10	85 - 115
QC Batch ID: BVI1153		Used client sample: Y - Description: MW-16, 09/10/2012 10:05								
Total Recoverable Chromium	DUP	1217062-02	93.121	82.023		ug/L	12.7		20	
	MS	1217062-02	93.121	124.78	40.000	ug/L		79.1		70 - 130
	MSD	1217062-02	93.121	123.73	40.000	ug/L	0.8	76.5	20	70 - 130

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Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.