

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

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



Date of Report: 08/14/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 3rd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1416932
Invoice ID: B180648

Enclosed are the results of analyses for samples received by the laboratory on 7/28/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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.

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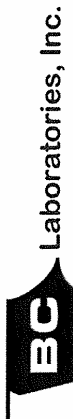
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Chain of Custody Form



Page 1 of 2

***Required Fields**

Report To: **Tidewater, Inc.**
 Client: **Tidewater, Inc. (P.O. #1213-000-02)**
 Attn: **David Conner**
 Street Address: **3761 Attucks Drive**
 City: **Powell** State: **OH** Zip: **43065**
 Phone: **(614) 792-2897** Fax: **(614) 792-2897**
 Email Address: **david.conner@tideh2o.net**
 Submission #: **14-10937**

Project Description: **JPL-GW Monitoring**
 Project Code: **3rd Qtr.**
 Sampler (s): **Blaine Tech**

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-1-7/28/14	7-28-14	0700	AQ
-2	MW-20-5		0900	
-3	MW-20-4		0940	
-4	MW-20-3		0930	
-5	MW-20-2		1000	
-6	DUP-1-30/14		1010	
-7	MW-19-5		1110	
-8	MW-19-4		1150	
-9	MW-19-3		1240	
-10	MW-19-2		1315	
-11	MW-19-1		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: **Nicole** Date: **7/28/14** Time: **16:00**
 2. Received By: **Nicole** Date: **7/28/14** Time: **16:10**
 3. Received By: **Nicole** Date: **7/28/14** Time: **16:20**

Cost Center: _____

1. Reinquished By: **Nicole** Date: **7-28-14** Time: **16:00**
 2. Reinquished By: **Nicole** Date: **7/28/14** Time: **16:10**
 3. Reinquished By: **Nicole** Date: **7/28/14** Time: **17:00**

Comments: PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD) 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

MBU Site
 CVX RCRA
 Geotracker 5 File
 Geotracker (CA Default)
 Geotracker 2 File
 Other (Specify) _____

Billing

Client: **Tidewater, Inc. (P.O. #1213-000-02)**
 Attn: **As directed by Ben Headington**
 Address: **6625 Selnick Drive, Suite A**
 City: **Elkridge** State: **MD** Zip: **21034**

Are there any tests with holding times less than or equal to 48 hours?
 Yes No

*Standard Turnaround = 10

Notes

MS/MSD
 SHORT HOLDING TIME
 DO C₆ NO₂ NO₃ OP SS
 Level IV
 DISTRIBUTION
 SUBMIT

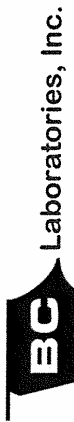
BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

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Chain of Custody Form



Page 2 of 2

*Required Fields

Report To: Tidewater, Inc.
 Client: Tidewater, Inc. (P.O. #1213-000-02)
 Attn: David Conner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 614 792-2897 Fax: 614 792-2897
 Email Address: david.conner@tideh2o.net
 Submission #: 1416932

Project Description: JPL-GW Monitoring
 Project Code: 3rd Qtr.
 Sampler(s): Blaine Tech

Sample #	Sample Description	Date	Time	Matrix*
12	SB-1-7/28/14	7-28-14	1530	AR
15	ER-1-7/28/14	7-28-14	1545	↓

Analysis Requested

Analysis	Requested
VOCs EPA 524.2	XX
Total Cr (200.8)	XX
Perchlorate (EPA 314.0)	XX
Chloride, Nitrate, Sulfate (300)	
Orthophosphate (365.1)	
Nitrite (353.2)	X
Hexavalent Cr (7196)	X

Billing
 Client: Tidewater, Inc. (P.O. #1213-000-02)
 Attn: As directed by Ben Headington
 Address: 6625 Selmick Drive, Suite A
 City: Elkridge State: MD Zip: 21035
 Are there any tests with holding times?
 less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Notes

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:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

MBU Site
 CVX RCRA
 Geotracker 5 File
 Geotracker 2 File (CA Default)
 Other (Specify) _____

Cost Center:
 1. Relinquished By: [Signature] Date: 7-28-14 Time: 1600
 2. Relinquished By: NICOLE Date: 7-28-14 Time: 1610
 3. Relinquished By: [Signature] Date: 7-28-14 Time: 1900

Global ID:
 1. Received By: NICOLE Date: 7/28/14 Time: 1600
 2. Received By: [Signature] Date: 7/28/14 Time: 1610
 3. Received By: [Signature] Date: 7/28/14 Time: 1930

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. 17 06/05/14 Page 1 Of 2

Submission #: 1416932

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

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: 0.97 Container: RB Thermometer ID: 207 Date/Time: 7-28-14 1930
 Temperature: (A) 6.5 °C (C) 0.7 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		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				
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	A6	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										
10ml EPA 547										
10ml EPA 531.1										
1oz Amber EPA 548										
YT EPA 549										
YT EPA 632										
YT EPA 8015M										
YT AMBER										
OZ. JAR										
2 OZ. JAR										
OIL SLEEVE										
CB VIAL										
LASTIC BAG										
ERROUS IRON										
NCORE										
MART KIT										
umma Canister										

Comments: _____

Sample Numbering Completed By: M Date/Time: 7-28-14 1947 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 Of 2

Submission #: 1416932

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

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: 2.97 Container: 85 Thermometer ID: 207 Date/Time: 7-28-14 19:50
 Temperature: (A) 6.5 °C (C) 0.3 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B	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										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A.S	A.S	A.S							
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 7-28-14 19:50
 \ = Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1416932-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-1-7/28/14 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2014 19:30 Sampling Date: 07/28/2014 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-1-7/28/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1416932-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-5 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2014 19:30 Sampling Date: 07/28/2014 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1416932-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2014 19:30 Sampling Date: 07/28/2014 08:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1416932-04	COC Number: ---	Receive Date: 07/28/2014 19:30
	Project Number: JPL-GW	Sampling Date: 07/28/2014 09:30
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-20-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-20-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1416932-05	COC Number: ---	Receive Date: 07/28/2014 19:30
	Project Number: JPL-GW	Sampling Date: 07/28/2014 10:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-20-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-20-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1416932-06	COC Number: ---	Receive Date: 07/28/2014 19:30
	Project Number: JPL-GW	Sampling Date: 07/28/2014 10:10
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: Dup-1-3Q14	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): Dup-1-3Q14
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1416932-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-5 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2014 19:30 Sampling Date: 07/28/2014 11:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1416932-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2014 19:30 Sampling Date: 07/28/2014 11:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1416932-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2014 19:30 Sampling Date: 07/28/2014 12:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1416932-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2014 19:30 Sampling Date: 07/28/2014 13:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1416932-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2014 19:30 Sampling Date: 07/28/2014 13:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1416932-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: SB-1-7/28/14 Sampled By: C. Moseley of BAT	Receive Date: 07/28/2014 19:30 Sampling Date: 07/28/2014 15:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-1-7/28/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1416932-13

COC Number: ---
Project Number: JPL-GW
Sampling Location: ---
Sampling Point: EB-1-7/28/14
Sampled By: Blaine Tech of BAT

Receive Date: 07/28/2014 19:30
Sampling Date: 07/28/2014 15:45
Sample Depth: ---
Lab Matrix: Water
Sample Type: Water
Delivery Work Order:
Global ID: 0000000000
Location ID (FieldPoint): EB-1-7/28/14
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-01	Client Sample Name: JPL-GW, TB-1-7/28/14, 7/28/2014 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		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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-01	Client Sample Name: JPL-GW, TB-1-7/28/14, 7/28/2014 7:00:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-01	Client Sample Name: JPL-GW, TB-1-7/28/14, 7/28/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.0	%	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	07/31/14	07/31/14 14:25	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-01	Client Sample Name: JPL-GW, TB-1-7/28/14, 7/28/2014 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	07/31/14	07/31/14 14:25	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-02	Client Sample Name: JPL-GW, MW-20-5, 7/28/2014 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		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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-02	Client Sample Name: JPL-GW, MW-20-5, 7/28/2014 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	0.21	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	0.44	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-02	Client Sample Name: JPL-GW, MW-20-5, 7/28/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.8	%	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	07/31/14	07/31/14 14:48	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-02	Client Sample Name: JPL-GW, MW-20-5, 7/28/2014 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	07/31/14	07/31/14 14:48	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-02	Client Sample Name: JPL-GW, MW-20-5, 7/28/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/12/14 15:04	LD1	IC6	1	BXH1131

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1416932-02	Client Sample Name: JPL-GW, MW-20-5, 7/28/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0040	0.0014	EPA-7196	ND	A10	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	07/28/14	07/28/14 22:17	OLH	KONE-1	2	BXG2614
2	EPA-200.8	08/01/14	08/01/14 17:39	SRM	PE-EL2	1	BXH0028

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-03	Client Sample Name: JPL-GW, MW-20-4, 7/28/2014 8:40:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-03	Client Sample Name: JPL-GW, MW-20-4, 7/28/2014 8:40:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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	5.5	ug/L	10	4.6	EPA-524.2	ND	J	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-03	Client Sample Name: JPL-GW, MW-20-4, 7/28/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	88.9	%	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	07/31/14	07/31/14 12:09	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-03	Client Sample Name: JPL-GW, MW-20-4, 7/28/2014 8:40:00AM, 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	07/31/14	07/31/14 12:09	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-03	Client Sample Name: JPL-GW, MW-20-4, 7/28/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/12/14 15:18	LD1	IC6	1	BXH1131

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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1416932-03	Client Sample Name: JPL-GW, MW-20-4, 7/28/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0040	0.0014	EPA-7196	ND	A10	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	07/28/14	07/28/14 22:17	OLH	KONE-1	2	BXG2614
2	EPA-200.8	08/01/14	08/01/14 17:13	SRM	PE-EL2	1	BXH0028

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-04	Client Sample Name: JPL-GW, MW-20-3, 7/28/2014 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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-04		Client Sample Name: JPL-GW, MW-20-3, 7/28/2014 9:30:00AM, 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	0.16	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	0.33	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	0.32	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	0.13	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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	2.0	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-04	Client Sample Name: JPL-GW, MW-20-3, 7/28/2014 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.7	%	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	07/31/14	07/31/14 15:10	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-04	Client Sample Name: JPL-GW, MW-20-3, 7/28/2014 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	07/31/14	07/31/14 15:10	MGC	MS-V5	1	BXG2732

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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-04	Client Sample Name: JPL-GW, MW-20-3, 7/28/2014 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	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/12/14 16:14	LD1	IC6	1	BXH1131

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Tidewater Inc.
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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1416932-04	Client Sample Name: JPL-GW, MW-20-3, 7/28/2014 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	0.0040	0.0014	EPA-7196	ND	A10	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	07/28/14	07/28/14 22:17	OLH	KONE-1	2	BXG2614
2	EPA-200.8	08/01/14	08/01/14 17:43	SRM	PE-EL2	1	BXH0028

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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-05	Client Sample Name: JPL-GW, MW-20-2, 7/28/2014 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		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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-05	Client Sample Name: JPL-GW, MW-20-2, 7/28/2014 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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-05	Client Sample Name: JPL-GW, MW-20-2, 7/28/2014 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.8	%	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	07/31/14	07/31/14 15:33	MGC	MS-V5	1	BXG2732

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-05	Client Sample Name: JPL-GW, MW-20-2, 7/28/2014 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	07/31/14	07/31/14 15:33	MGC	MS-V5	1	BXG2732

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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-05	Client Sample Name: JPL-GW, MW-20-2, 7/28/2014 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.5	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/12/14 18:50	OLH	IC6	1	BXH1131

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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1416932-05	Client Sample Name: JPL-GW, MW-20-2, 7/28/2014 10:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0040	0.0014	EPA-7196	ND	A10	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	07/28/14	07/28/14 22:17	OLH	KONE-1	2	BXG2614
2	EPA-200.8	08/01/14	08/01/14 17:46	SRM	PE-EL2	1	BXH0028

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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-06	Client Sample Name: JPL-GW, Dup-1-3Q14, 7/28/2014 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		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	0.49	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-06	Client Sample Name: JPL-GW, Dup-1-3Q14, 7/28/2014 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	0.19	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	0.31	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-06	Client Sample Name: JPL-GW, Dup-1-3Q14, 7/28/2014 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.7	%	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	07/31/14	07/31/14 15:55	MGC	MS-V5	1	BXG2732

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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-06	Client Sample Name: JPL-GW, Dup-1-3Q14, 7/28/2014 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	07/31/14	07/31/14 15:55	MGC	MS-V5	1	BXG2732

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-06	Client Sample Name: JPL-GW, Dup-1-3Q14, 7/28/2014 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/12/14 19:04	OLH	IC6	1	BXH1131

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1416932-06	Client Sample Name: JPL-GW, Dup-1-3Q14, 7/28/2014 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0040	0.0014	EPA-7196	ND	A10	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	07/28/14	07/28/14 22:17	OLH	KONE-1	2	BXG2614
2	EPA-200.8	08/01/14	08/01/14 17:50	SRM	PE-EL2	1	BXH0028

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-07	Client Sample Name: JPL-GW, MW-19-5, 7/28/2014 11:10:00AM, 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		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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-07	Client Sample Name: JPL-GW, MW-19-5, 7/28/2014 11:10:00AM, 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	0.74	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-07	Client Sample Name: JPL-GW, MW-19-5, 7/28/2014 11:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.0	%	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	07/31/14	07/31/14 16:18	MGC	MS-V5	1	BXG2732

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-07	Client Sample Name: JPL-GW, MW-19-5, 7/28/2014 11:10:00AM, 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	07/31/14	07/31/14 16:18	MGC	MS-V5	1	BXG2732

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-07	Client Sample Name: JPL-GW, MW-19-5, 7/28/2014 11:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/13/14 11:27	LD1	IC6	1	BXH1131

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-08	Client Sample Name: JPL-GW, MW-19-4, 7/28/2014 11:50:00AM, 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	0.25	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-08	Client Sample Name: JPL-GW, MW-19-4, 7/28/2014 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	0.54	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-08	Client Sample Name: JPL-GW, MW-19-4, 7/28/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.5	%	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	07/31/14	07/31/14 16:41	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-08	Client Sample Name: JPL-GW, MW-19-4, 7/28/2014 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	07/31/14	07/31/14 16:41	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-08	Client Sample Name: JPL-GW, MW-19-4, 7/28/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.4	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/13/14 11:41	LD1	IC6	1	BXH1131

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-09	Client Sample Name: JPL-GW, MW-19-3, 7/28/2014 12:40:00PM, 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	0.42	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-09	Client Sample Name: JPL-GW, MW-19-3, 7/28/2014 12:40:00PM, 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	0.74	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-09	Client Sample Name: JPL-GW, MW-19-3, 7/28/2014 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.3	%	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	07/31/14	07/31/14 17:03	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-09	Client Sample Name: JPL-GW, MW-19-3, 7/28/2014 12:40:00PM, 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	07/31/14	07/31/14 17:03	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-09	Client Sample Name: JPL-GW, MW-19-3, 7/28/2014 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.4	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/12/14 19:46	OLH	IC6	1	BXH1131

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-10	Client Sample Name: JPL-GW, MW-19-2, 7/28/2014 1:15:00PM, 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	0.37	ug/L	0.50	0.14	EPA-524.2	ND	J	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	0.99	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	0.16	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	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	0.25	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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-10	Client Sample Name: JPL-GW, MW-19-2, 7/28/2014 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	1.3	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	0.80	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-10	Client Sample Name: JPL-GW, MW-19-2, 7/28/2014 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.2	%	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	07/31/14	07/31/14 17:26	MGC	MS-V5	1	BXG2732

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-10	Client Sample Name: JPL-GW, MW-19-2, 7/28/2014 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	07/31/14	07/31/14 17:26	MGC	MS-V5	1	BXG2732

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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-10	Client Sample Name: JPL-GW, MW-19-2, 7/28/2014 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.7	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/13/14 12:48	LD1	IC6	1	BXH1131

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-11	Client Sample Name: JPL-GW, MW-19-1, 7/28/2014 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	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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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-11	Client Sample Name: JPL-GW, MW-19-1, 7/28/2014 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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-11	Client Sample Name: JPL-GW, MW-19-1, 7/28/2014 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.3	%	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	07/31/14	07/31/14 17:49	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-11	Client Sample Name: JPL-GW, MW-19-1, 7/28/2014 1:45:00PM, 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	07/31/14	07/31/14 17:49	MGC	MS-V5	1	BXG2732

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-11	Client Sample Name: JPL-GW, MW-19-1, 7/28/2014 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/12/14 20:13	OLH	IC6	1	BXH1131

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-12 Client Sample Name: JPL-GW, SB-1-7/28/14, 7/28/2014 3:30:00PM, C. Moseley

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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-12 Client Sample Name: JPL-GW, SB-1-7/28/14, 7/28/2014 3:30:00PM, C. Moseley

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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-12	Client Sample Name: JPL-GW, SB-1-7/28/14, 7/28/2014 3:30:00PM, C. Moseley
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.0	%	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	07/31/14	07/31/14 18:11	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-12	Client Sample Name: JPL-GW, SB-1-7/28/14, 7/28/2014 3:30:00PM, C. Moseley
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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	07/31/14	07/31/14 18:11	MGC	MS-V5	1	BXG2732

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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-12	Client Sample Name: JPL-GW, SB-1-7/28/14, 7/28/2014 3:30:00PM, C. Moseley
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/12/14 20:55	OLH	IC6	1	BXH1132

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1416932-12	Client Sample Name: JPL-GW, SB-1-7/28/14, 7/28/2014 3:30:00PM, C. Moseley
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0040	0.0014	EPA-7196	ND	A10	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	07/28/14	07/28/14 22:20	OLH	KONE-1	2	BXG2614
2	EPA-200.8	08/01/14	08/01/14 17:53	SRM	PE-EL2	1	BXH0028

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-13	Client Sample Name: JPL-GW, EB-1-7/28/14, 7/28/2014 3:45:00PM, 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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-13	Client Sample Name: JPL-GW, EB-1-7/28/14, 7/28/2014 3:45:00PM, 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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1416932-13	Client Sample Name: JPL-GW, EB-1-7/28/14, 7/28/2014 3:45:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.8	%	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	07/31/14	07/31/14 18:34	MGC	MS-V5	1	BXG2732

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1416932-13	Client Sample Name: JPL-GW, EB-1-7/28/14, 7/28/2014 3:45:00PM, 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	07/31/14	07/31/14 18:34	MGC	MS-V5	1	BXG2732

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1416932-13	Client Sample Name: JPL-GW, EB-1-7/28/14, 7/28/2014 3:45:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/12/14	08/12/14 22:18	OLH	IC6	1	BXH1132

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Tidewater Inc.
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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1416932-13	Client Sample Name: JPL-GW, EB-1-7/28/14, 7/28/2014 3:45:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0040	0.0014	EPA-7196	ND	A10	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	07/28/14	07/28/14 22:20	OLH	KONE-1	2	BXG2614
2	EPA-200.8	08/01/14	08/01/14 17:56	SRM	PE-EL2	1	BXH0028

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Tidewater Inc.
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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2732						
Benzene	BXG2732-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXG2732-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXG2732-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXG2732-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXG2732-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXG2732-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXG2732-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXG2732-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXG2732-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXG2732-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXG2732-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXG2732-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXG2732-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXG2732-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXG2732-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXG2732-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXG2732-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXG2732-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXG2732-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXG2732-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXG2732-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXG2732-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXG2732-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXG2732-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXG2732-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXG2732-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXG2732-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXG2732-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXG2732-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXG2732-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXG2732-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXG2732-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXG2732-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXG2732-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2732						
trans-1,3-Dichloropropene	BXG2732-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXG2732-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXG2732-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXG2732-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXG2732-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXG2732-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXG2732-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXG2732-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXG2732-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXG2732-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXG2732-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXG2732-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXG2732-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXG2732-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXG2732-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXG2732-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXG2732-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXG2732-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXG2732-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXG2732-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXG2732-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXG2732-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXG2732-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXG2732-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXG2732-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXG2732-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXG2732-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXG2732-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXG2732-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXG2732-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXG2732-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXG2732-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXG2732-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXG2732-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2732						
Ethyl t-butyl ether	BXG2732-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXG2732-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXG2732-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXG2732-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXG2732-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXG2732-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXG2732-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXG2732-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXG2732-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXG2732-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXG2732-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXG2732-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXG2732-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXG2732-BLK1	103	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXG2732-BLK1	102	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXG2732-BLK1	89.9	%	80 - 120 (LCL - UCL)		

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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2732										
Benzene	BXG2732-BS1	LCS	23.960	25.000	ug/L	95.8		70 - 130		
Bromodichloromethane	BXG2732-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		
Chlorobenzene	BXG2732-BS1	LCS	23.870	25.000	ug/L	95.5		70 - 130		
Chloroethane	BXG2732-BS1	LCS	27.800	25.000	ug/L	111		70 - 130		
1,4-Dichlorobenzene	BXG2732-BS1	LCS	24.510	25.000	ug/L	98.0		70 - 130		
1,1-Dichloroethane	BXG2732-BS1	LCS	23.830	25.000	ug/L	95.3		70 - 130		
1,1-Dichloroethene	BXG2732-BS1	LCS	23.730	25.000	ug/L	94.9		70 - 130		
Toluene	BXG2732-BS1	LCS	23.460	25.000	ug/L	93.8		70 - 130		
Trichloroethene	BXG2732-BS1	LCS	23.550	25.000	ug/L	94.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXG2732-BS1	LCS	10.590	10.000	ug/L	106		75 - 125		
Toluene-d8 (Surrogate)	BXG2732-BS1	LCS	9.8700	10.000	ug/L	98.7		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXG2732-BS1	LCS	10.130	10.000	ug/L	101		80 - 120		

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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch ID: BXG2732 and Used client sample: Y - Description: MW-20-4, 07/28/2014 08:40.

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Tidewater Inc.
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Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2732						
Chloroacetonitrile	BXG2732-BLK1	0	ug/L			
1-Chlorobutane	BXG2732-BLK1	0	ug/L			
1,1-Dichloropropanone	BXG2732-BLK1	0	ug/L			
Methyl acrylate	BXG2732-BLK1	0	ug/L			
Nitrobenzene	BXG2732-BLK1	0	ug/L			
2-Nitropropane	BXG2732-BLK1	0	ug/L			

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1131						
Perchlorate	BXH1131-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXH1132						
Perchlorate	BXH1132-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1131										
Perchlorate	BXH1131-BS1	LCS	9.2113	10.000	ug/L	92.1		85	115	
QC Batch ID: BXH1132										
Perchlorate	BXH1132-BS1	LCS	10.080	10.000	ug/L	101		85	115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1131		Used client sample: Y - Description: MW-20-4, 07/28/2014 08:40									
Perchlorate	DUP	1416932-03	ND	ND		ug/L				15	
	MS	1416932-03	ND	8.9460	10.101	ug/L		88.6		80 - 120	
	MSD	1416932-03	ND	8.4184	10.101	ug/L	6.1	83.3	15	80 - 120	
QC Batch ID: BXH1132		Used client sample: Y - Description: SB-1-7/28/14, 07/28/2014 15:30									
Perchlorate	DUP	1416932-12	ND	ND		ug/L				15	
	MS	1416932-12	ND	8.8942	10.101	ug/L		88.1		80 - 120	
	MSD	1416932-12	ND	9.1556	10.101	ug/L	2.9	90.6	15	80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXG2614						
Hexavalent Chromium	BXG2614-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXH0028						
Total Recoverable Chromium	BXH0028-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXG2614										
Hexavalent Chromium	BXG2614-BS1	LCS	0.050013	0.050000	mg/L	100		85 - 115		
QC Batch ID: BXH0028										
Total Recoverable Chromium	BXH0028-BS1	LCS	41.424	40.000	ug/L	104		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXG2614		Used client sample: Y - Description: MW-20-4, 07/28/2014 08:40								
Hexavalent Chromium	DUP	1416932-03	ND	ND		mg/L			10	
	MS	1416932-03	ND	0.076979	0.10526	mg/L		73.1		85 - 115 Q03
	MSD	1416932-03	ND	0.076583	0.10526	mg/L	0.5	72.8	10	85 - 115 Q03
QC Batch ID: BXH0028		Used client sample: Y - Description: MW-20-4, 07/28/2014 08:40								
Total Recoverable Chromium	DUP	1416932-03	ND	ND		ug/L			20	
	MS	1416932-03	ND	38.735	40.000	ug/L		96.8		70 - 130
	MSD	1416932-03	ND	38.667	40.000	ug/L	0.2	96.7	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 12:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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
- A10 PQL's and MDL's were raised due to matrix interference.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 08/14/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 3rd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1417037
Invoice ID: B180677

Enclosed are the results of analyses for samples received by the laboratory on 7/29/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form

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***Required Fields**

Report To: Client: **Tidewater, Inc.**
 Attn: **David Conner**
 Street Address: **3761 Altucks Drive**
 City: **Powell** State: **OH** Zip: **43065**
 Phone: **614 792-2897** Fax: **614 792-2897**
 Email Address: **david.conner@tidew2o.net**
 Submission #: **14-17037**

Project Description: **JPL-GW Monitoring**
 Project Code: **3rd Qtr.**
 Sampler (s): **Blaine Tech**

Billing
 Client: **Tidewater, Inc. (P.O. #1213-000-02)**
 Attn: **As directed by Ben Headington**
 Address: **6625 Selnick Drive, Suite A**
 City: **Elkridge** State: **MD** Zip: **21045**
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*	VOCS EPA 52.2	Total Cr (200.8)	Perchlorate (EPA 314.0)	Chloride, Nitrate, Sulfate (300)	Orthophosphate (365.1)	Nitrite (353.2)	Hexavalent Cr (7196)
-1	TB-2-7/29/14	7-29-14	0700	AQ	X	X	X	X	X	X	X
-2	EB-2-7/29/14		0705		X	X	X	X	X	X	X
-3	MW-11-4		0740		X	X	X	X	X	X	X
-4	MW-11-3		0820		X	X	X	X	X	X	X
-5	MW-11-2		0900		X	X	X	X	X	X	X
-6	MW-11-1		0940		X	X	X	X	X	X	X
-7	MW-14-5		1050		X	X	X	X	X	X	X
-8	MW-14-4		1130		X	X	X	X	X	X	X
-9	MW-14-3		1240		X	X	X	X	X	X	X
-10	MW-14-2		1320		X	X	X	X	X	X	X
-11	MW-14-1		1350		X	X	X	X	X	X	X

Notes
 SHIELD HOUSING NONE
 96% O₂ NO₂ NO₃ O₃ P₂ SSS
 IDO Cl₂ BOD MBAS COAT
 MS/MSD
 Level IV
 CHK BY: DISTRIBUTION
 MWA
 SUP-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:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR OC (MS/MSD)
 90% Level III and 10% Level IV data validation required: Level IV Notated on C of C
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform OC)

Cost Center:
 1. Relinquished By: [Signature] Date: 7-29-14 Time: 1540
 2. Relinquished By: [Signature] Date: 7-29-14 Time: 1600
 3. Relinquished By: [Signature] Date: 7-29-14 Time: 1900

Global ID:
 1. Received By: [Signature] Date: 7-29-14 Time: 1540
 2. Received By: [Signature] Date: 7-29-14 Time: 1600
 3. Received By: [Signature] Date: 7-29-14 Time: 1900

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. 17 06/05/14 Page 2 of 2

Submission #: 1417037

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

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: 0.77 Container: PE Thermometer ID: 207 Date/Time: 7-29-14 1900
 Temperature: (A) 0-8 °C (C) 1.0 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		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
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	A6	A3	A3	A3	A3
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
10 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
10ml EPA 547										
10ml EPA 531.1										
oz Amber EPA 548										
YT EPA 549										
YT EPA 632										
YT EPA 8015M										
YT AMBER										
OZ. JAR										
2 OZ. JAR										
OIL SLEEVE										
CB VIAL										
LASTIC BAG										
ERROUS IRON										
NCORE										
MART KIT										
Imma Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 7/29/14 1928 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 Of 2

Submission #: 14-17037

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

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: 0.97 Container: PE Thermometer ID: 207 Date/Time: 7-29-14 1900
 Temperature: (A) 0.8 °C (C) 1.0 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
1 OZ. JAR										
1/2 OZ. JAR										
SOIL SLEEVE										
CB VIAL										
PLASTIC BAG										
FERROUS IRON										
CORE										
MART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: M Date/Time: 7/29/14 1930 IS:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

= Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417037-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-2-7/29/14 Sampled By: Blaine Tech of BAT	Receive Date: 07/29/2014 19:00 Sampling Date: 07/29/2014 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-2-7/29/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1417037-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-2-7/29/14 Sampled By: Blaine Tech of BAT	Receive Date: 07/29/2014 19:00 Sampling Date: 07/29/2014 07:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-2-7/29/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1417037-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/29/2014 19:00 Sampling Date: 07/29/2014 07:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417037-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/29/2014 19:00 Sampling Date: 07/29/2014 08:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417037-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/29/2014 19:00 Sampling Date: 07/29/2014 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417037-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/29/2014 19:00 Sampling Date: 07/29/2014 09:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417037-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-5 Sampled By: Blaine Tech of BAT	Receive Date: 07/29/2014 19:00 Sampling Date: 07/29/2014 10:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417037-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/29/2014 19:00 Sampling Date: 07/29/2014 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417037-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/29/2014 19:00 Sampling Date: 07/29/2014 12:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417037-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/29/2014 19:00 Sampling Date: 07/29/2014 13:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417037-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/29/2014 19:00 Sampling Date: 07/29/2014 13:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-01	Client Sample Name: JPL-GW, TB-2-7/29/14, 7/29/2014 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		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-01	Client Sample Name: JPL-GW, TB-2-7/29/14, 7/29/2014 7:00:00AM, 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	V11	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-01	Client Sample Name: JPL-GW, TB-2-7/29/14, 7/29/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.1	%	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	07/31/14	08/01/14 02:06	MGC	MS-V5	1	BXG2733

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417037-01	Client Sample Name: JPL-GW, TB-2-7/29/14, 7/29/2014 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	07/31/14	08/01/14 02:06	MGC	MS-V5	1	BXG2733

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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-02	Client Sample Name: JPL-GW, EB-2-7/29/14, 7/29/2014 7:05:00AM, 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		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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-02	Client Sample Name: JPL-GW, EB-2-7/29/14, 7/29/2014 7:05:00AM, 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	V11	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-02	Client Sample Name: JPL-GW, EB-2-7/29/14, 7/29/2014 7:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.7	%	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	07/31/14	08/01/14 02:28	MGC	MS-V5	1	BXG2733

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417037-02	Client Sample Name: JPL-GW, EB-2-7/29/14, 7/29/2014 7:05:00AM, 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	07/31/14	08/01/14 02:28	MGC	MS-V5	1	BXG2733

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417037-02	Client Sample Name: JPL-GW, EB-2-7/29/14, 7/29/2014 7:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/14	08/13/14 16:02	OLH	IC6	1	BXH1228

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417037-02	Client Sample Name: JPL-GW, EB-2-7/29/14, 7/29/2014 7:05:00AM, 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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/29/14	07/29/14	21:54	OLH	KONE-1	1	BXG2618
2	EPA-200.8	08/05/14	08/06/14	10:03	SRM	PE-EL2	1	BXH0244

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-03	Client Sample Name: JPL-GW, MW-11-4, 7/29/2014 7:40:00AM, 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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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-03	Client Sample Name: JPL-GW, MW-11-4, 7/29/2014 7:40:00AM, 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	0.14	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	V11	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-03	Client Sample Name: JPL-GW, MW-11-4, 7/29/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	07/31/14	08/01/14 02:51	MGC	MS-V5	1	BXG2733

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417037-03	Client Sample Name: JPL-GW, MW-11-4, 7/29/2014 7:40:00AM, 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	07/31/14	08/01/14 02:51	MGC	MS-V5	1	BXG2733

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417037-03	Client Sample Name: JPL-GW, MW-11-4, 7/29/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/14	08/13/14 16:16	OLH	IC6	1	BXH1228

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-04	Client Sample Name: JPL-GW, MW-11-3, 7/29/2014 8:20:00AM, 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	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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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-04	Client Sample Name: JPL-GW, MW-11-3, 7/29/2014 8:20:00AM, 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	0.26	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	0.28	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	V11	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-04	Client Sample Name: JPL-GW, MW-11-3, 7/29/2014 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.8	%	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	07/31/14	08/01/14 03:14	MGC	MS-V5	1	BXG2733

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417037-04	Client Sample Name: JPL-GW, MW-11-3, 7/29/2014 8:20:00AM, 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	07/31/14	08/01/14 03:14	MGC	MS-V5	1	BXG2733

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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417037-04	Client Sample Name: JPL-GW, MW-11-3, 7/29/2014 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/14	08/13/14 16:30	OLH	IC6	1	BXH1228

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417037-04	Client Sample Name: JPL-GW, MW-11-3, 7/29/2014 8:20:00AM, 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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/29/14	07/29/14	21:54	OLH	KONE-1	1	BXG2618
2	EPA-200.8	08/05/14	08/06/14	10:07	SRM	PE-EL2	1	BXH0244

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-05 Client Sample Name: JPL-GW, MW-11-2, 7/29/2014 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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-05	Client Sample Name: JPL-GW, MW-11-2, 7/29/2014 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	V11	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-05	Client Sample Name: JPL-GW, MW-11-2, 7/29/2014 9:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.1	%	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	07/31/14	08/01/14 03:36	MGC	MS-V5	1	BXG2733

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417037-05	Client Sample Name: JPL-GW, MW-11-2, 7/29/2014 9:00:00AM, 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	07/31/14	08/01/14 03:36	MGC	MS-V5	1	BXG2733

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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417037-05	Client Sample Name: JPL-GW, MW-11-2, 7/29/2014 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/14	08/13/14 16:44	OLH	IC6	1	BXH1228

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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417037-05	Client Sample Name: JPL-GW, MW-11-2, 7/29/2014 9:00:00AM, 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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/29/14	07/29/14	21:54	OLH	KONE-1	1	BXG2618
2	EPA-200.8	08/05/14	08/06/14	10:10	SRM	PE-EL2	1	BXH0244

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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-06	Client Sample Name: JPL-GW, MW-11-1, 7/29/2014 9:40:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-06	Client Sample Name: JPL-GW, MW-11-1, 7/29/2014 9:40:00AM, 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	V11	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-06	Client Sample Name: JPL-GW, MW-11-1, 7/29/2014 9:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.2	%	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	07/31/14	07/31/14 23:50	MGC	MS-V5	1	BXG2733

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417037-06	Client Sample Name: JPL-GW, MW-11-1, 7/29/2014 9:40:00AM, 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	07/31/14	07/31/14 23:50	MGC	MS-V5	1	BXG2733

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417037-06	Client Sample Name: JPL-GW, MW-11-1, 7/29/2014 9:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	13	mg/L	0.50	0.067	EPA-300.0	ND		1
Nitrate as N	0.26	mg/L	0.10	0.025	EPA-300.0	ND		1
Sulfate	29	mg/L	1.0	0.18	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		3
ortho-Phosphate as P	0.018	mg/L	0.020	0.0040	EPA-365.1	ND	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/29/14	07/30/14 04:06	OLH	IC2	1	BXG2579
2	EPA-353.2	07/30/14	07/30/14 09:38	TDC	KONE-1	1	BXG2626
3	EPA-314.0	08/13/14	08/13/14 16:58	OLH	IC6	1	BXH1228
4	EPA-365.1	07/30/14	07/30/14 10:32	TDC	KONE-1	1	BXG2627

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Tidewater Inc.
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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417037-06	Client Sample Name: JPL-GW, MW-11-1, 7/29/2014 9:40:00AM, 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	07/29/14	07/29/14 21:54	OLH	KONE-1	1	BXG2618
2	EPA-200.8	08/05/14	08/06/14 09:29	SRM	PE-EL2	1	BXH0244

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-07	Client Sample Name: JPL-GW, MW-14-5, 7/29/2014 10:50:00AM, 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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-07	Client Sample Name: JPL-GW, MW-14-5, 7/29/2014 10:50:00AM, 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	V11	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-07	Client Sample Name: JPL-GW, MW-14-5, 7/29/2014 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.7	%	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	07/31/14	08/01/14 03:59	MGC	MS-V5	1	BXG2733

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Tidewater Inc.
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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417037-07	Client Sample Name: JPL-GW, MW-14-5, 7/29/2014 10:50:00AM, 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	07/31/14	08/01/14 03:59	MGC	MS-V5	1	BXG2733

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417037-07	Client Sample Name: JPL-GW, MW-14-5, 7/29/2014 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/14	08/13/14 18:21	OLH	IC6	1	BXH1228

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Tidewater Inc.
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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-08	Client Sample Name: JPL-GW, MW-14-4, 7/29/2014 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	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	0.29	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	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	0.16	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	0.15	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-08	Client Sample Name: JPL-GW, MW-14-4, 7/29/2014 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	0.39	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	V11	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	0.38	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-08	Client Sample Name: JPL-GW, MW-14-4, 7/29/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.9	%	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	07/31/14	08/01/14 04:21	MGC	MS-V5	1	BXG2733

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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417037-08	Client Sample Name: JPL-GW, MW-14-4, 7/29/2014 11:30:00AM, 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	07/31/14	08/01/14 04:21	MGC	MS-V5	1	BXG2733

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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417037-08	Client Sample Name: JPL-GW, MW-14-4, 7/29/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.5	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/14	08/14/14 01:53	OLH	IC6	1	BXH1228

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-09	Client Sample Name: JPL-GW, MW-14-3, 7/29/2014 12:40:00PM, 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	0.79	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	0.49	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	0.24	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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-09	Client Sample Name: JPL-GW, MW-14-3, 7/29/2014 12:40:00PM, 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	0.93	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	V11	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	2.7	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-09	Client Sample Name: JPL-GW, MW-14-3, 7/29/2014 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.3	%	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	07/31/14	08/01/14 04:44	MGC	MS-V5	1	BXG2733

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417037-09	Client Sample Name: JPL-GW, MW-14-3, 7/29/2014 12:40:00PM, 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	07/31/14	08/01/14 04:44	MGC	MS-V5	1	BXG2733

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417037-09	Client Sample Name: JPL-GW, MW-14-3, 7/29/2014 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.9	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/14	08/13/14 18:48	OLH	IC6	1	BXH1228

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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417037-09	Client Sample Name: JPL-GW, MW-14-3, 7/29/2014 12:40:00PM, 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	0.92	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/29/14	07/29/14	21:54	OLH	KONE-1	1	BXG2618
2	EPA-200.8	08/05/14	08/06/14	10:14	SRM	PE-EL2	1	BXH0244

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Tidewater Inc.
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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-10	Client Sample Name: JPL-GW, MW-14-2, 7/29/2014 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	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	0.66	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	0.18	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	0.23	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-10	Client Sample Name: JPL-GW, MW-14-2, 7/29/2014 1:20:00PM, 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	0.56	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	V11	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	4.1	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-10	Client Sample Name: JPL-GW, MW-14-2, 7/29/2014 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.6	%	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	07/31/14	08/01/14 05:06	MGC	MS-V5	1	BXG2733

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417037-10	Client Sample Name: JPL-GW, MW-14-2, 7/29/2014 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	07/31/14	08/01/14 05:06	MGC	MS-V5	1	BXG2733

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417037-10	Client Sample Name: JPL-GW, MW-14-2, 7/29/2014 1:20:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.8	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/14	08/13/14 19:02	OLH	IC6	1	BXH1228

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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417037-10	Client Sample Name: JPL-GW, MW-14-2, 7/29/2014 1:20:00PM, 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	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/29/14	07/29/14	21:57	OLH	KONE-1	1	BXG2618
2	EPA-200.8	08/05/14	08/06/14	10:17	SRM	PE-EL2	1	BXH0244

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-11 Client Sample Name: JPL-GW, MW-14-1, 7/29/2014 1:50:00PM, 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	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	0.52	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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-11	Client Sample Name: JPL-GW, MW-14-1, 7/29/2014 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	0.35	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	V11	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	2.6	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417037-11	Client Sample Name: JPL-GW, MW-14-1, 7/29/2014 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.6	%	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	07/31/14	08/01/14 05:29	MGC	MS-V5	1	BXG2733

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417037-11	Client Sample Name: JPL-GW, MW-14-1, 7/29/2014 1:50:00PM, 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	07/31/14	08/01/14 05:29	MGC	MS-V5	1	BXG2733

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417037-11	Client Sample Name: JPL-GW, MW-14-1, 7/29/2014 1:50:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.9	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/14	08/13/14 19:44	OLH	IC6	1	BXH1229

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417037-11	Client Sample Name: JPL-GW, MW-14-1, 7/29/2014 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00089	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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/29/14	07/29/14	21:57	OLH	KONE-1	1	BXG2618
2	EPA-200.8	08/05/14	08/06/14	10:20	SRM	PE-EL2	1	BXH0244

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2733

Benzene	BXG2733-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXG2733-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXG2733-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXG2733-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXG2733-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXG2733-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXG2733-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXG2733-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXG2733-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXG2733-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXG2733-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXG2733-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXG2733-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXG2733-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXG2733-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXG2733-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXG2733-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXG2733-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXG2733-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXG2733-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXG2733-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXG2733-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXG2733-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXG2733-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXG2733-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXG2733-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXG2733-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXG2733-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXG2733-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXG2733-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXG2733-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXG2733-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXG2733-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXG2733-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2733						
trans-1,3-Dichloropropene	BXG2733-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXG2733-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXG2733-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXG2733-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXG2733-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXG2733-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXG2733-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXG2733-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXG2733-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXG2733-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXG2733-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXG2733-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXG2733-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXG2733-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXG2733-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXG2733-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXG2733-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXG2733-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXG2733-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXG2733-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXG2733-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXG2733-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXG2733-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXG2733-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXG2733-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXG2733-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXG2733-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXG2733-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXG2733-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXG2733-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXG2733-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXG2733-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXG2733-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXG2733-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2733						
Ethyl t-butyl ether	BXG2733-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXG2733-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXG2733-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXG2733-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXG2733-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXG2733-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXG2733-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXG2733-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXG2733-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXG2733-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXG2733-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXG2733-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXG2733-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXG2733-BLK1	106	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXG2733-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXG2733-BLK1	90.9	%	80 - 120 (LCL - UCL)		

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2733										
Benzene	BXG2733-BS1	LCS	23.660	25.000	ug/L	94.6		70 - 130		
Bromodichloromethane	BXG2733-BS1	LCS	24.580	25.000	ug/L	98.3		70 - 130		
Chlorobenzene	BXG2733-BS1	LCS	23.630	25.000	ug/L	94.5		70 - 130		
Chloroethane	BXG2733-BS1	LCS	27.150	25.000	ug/L	109		70 - 130		
1,4-Dichlorobenzene	BXG2733-BS1	LCS	23.920	25.000	ug/L	95.7		70 - 130		
1,1-Dichloroethane	BXG2733-BS1	LCS	23.250	25.000	ug/L	93.0		70 - 130		
1,1-Dichloroethene	BXG2733-BS1	LCS	23.020	25.000	ug/L	92.1		70 - 130		
Toluene	BXG2733-BS1	LCS	23.310	25.000	ug/L	93.2		70 - 130		
Trichloroethene	BXG2733-BS1	LCS	22.650	25.000	ug/L	90.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXG2733-BS1	LCS	10.490	10.000	ug/L	105		75 - 125		
Toluene-d8 (Surrogate)	BXG2733-BS1	LCS	10.040	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXG2733-BS1	LCS	10.080	10.000	ug/L	101		80 - 120		

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Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2733		Used client sample: Y - Description: MW-11-1, 07/29/2014 09:40								
Benzene	MS	1417037-06	ND	24.460	25.000	ug/L		97.8		70 - 130
	MSD	1417037-06	ND	24.670	25.000	ug/L	0.9	98.7	20	70 - 130
Bromodichloromethane	MS	1417037-06	ND	25.860	25.000	ug/L		103		70 - 130
	MSD	1417037-06	ND	26.400	25.000	ug/L	2.1	106	20	70 - 130
Chlorobenzene	MS	1417037-06	ND	25.100	25.000	ug/L		100		70 - 130
	MSD	1417037-06	ND	25.020	25.000	ug/L	0.3	100	20	70 - 130
Chloroethane	MS	1417037-06	ND	28.050	25.000	ug/L		112		70 - 130
	MSD	1417037-06	ND	28.150	25.000	ug/L	0.4	113	20	70 - 130
1,4-Dichlorobenzene	MS	1417037-06	ND	25.890	25.000	ug/L		104		70 - 130
	MSD	1417037-06	ND	25.840	25.000	ug/L	0.2	103	20	70 - 130
1,1-Dichloroethane	MS	1417037-06	ND	24.030	25.000	ug/L		96.1		70 - 130
	MSD	1417037-06	ND	24.440	25.000	ug/L	1.7	97.8	20	70 - 130
1,1-Dichloroethene	MS	1417037-06	ND	23.870	25.000	ug/L		95.5		70 - 130
	MSD	1417037-06	ND	23.650	25.000	ug/L	0.9	94.6	20	70 - 130
Toluene	MS	1417037-06	ND	24.520	25.000	ug/L		98.1		70 - 130
	MSD	1417037-06	ND	25.160	25.000	ug/L	2.6	101	20	70 - 130
Trichloroethene	MS	1417037-06	ND	23.940	25.000	ug/L		95.8		70 - 130
	MSD	1417037-06	ND	24.430	25.000	ug/L	2.0	97.7	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1417037-06	ND	10.170	10.000	ug/L		102		75 - 125
	MSD	1417037-06	ND	10.370	10.000	ug/L	1.9	104		75 - 125
Toluene-d8 (Surrogate)	MS	1417037-06	ND	9.8400	10.000	ug/L		98.4		80 - 120
	MSD	1417037-06	ND	10.230	10.000	ug/L	3.9	102		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1417037-06	ND	10.140	10.000	ug/L		101		80 - 120
	MSD	1417037-06	ND	10.160	10.000	ug/L	0.2	102		80 - 120

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Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2733						
Chloroacetonitrile	BXG2733-BLK1	0	ug/L			
1-Chlorobutane	BXG2733-BLK1	0	ug/L			
1,1-Dichloropropanone	BXG2733-BLK1	0	ug/L			
Methyl acrylate	BXG2733-BLK1	0	ug/L			
Nitrobenzene	BXG2733-BLK1	0	ug/L			
2-Nitropropane	BXG2733-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2579						
Chloride	BXG2579-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXG2579-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXG2579-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXG2626						
Nitrite as N	BXG2626-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXG2627						
ortho-Phosphate as P	BXG2627-BLK1	ND	mg/L	0.020	0.0040	
QC Batch ID: BXH1228						
Perchlorate	BXH1228-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXH1229						
Perchlorate	BXH1229-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2579										
Chloride	BXG2579-BS1	LCS	49.782	50.000	mg/L	99.6		90 - 110		
Nitrate as N	BXG2579-BS1	LCS	4.9570	5.0000	mg/L	99.1		90 - 110		
Sulfate	BXG2579-BS1	LCS	100.68	100.00	mg/L	101		90 - 110		
QC Batch ID: BXG2626										
Nitrite as N	BXG2626-BS1	LCS	0.50451	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXG2627										
ortho-Phosphate as P	BXG2627-BS1	LCS	0.19821	0.20000	mg/L	99.1		90 - 110		
QC Batch ID: BXH1228										
Perchlorate	BXH1228-BS1	LCS	9.3768	10.000	ug/L	93.8		85 - 115		
QC Batch ID: BXH1229										
Perchlorate	BXH1229-BS1	LCS	10.501	10.000	ug/L	105		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits (RPD, Percent Recovery), Lab Quals. Includes QC Batch IDs: BXG2579, BXG2626, BXG2627, BXH1228, BXH1229.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXG2618						
Hexavalent Chromium	BXG2618-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXH0244						
Total Recoverable Chromium	BXH0244-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXG2618										
Hexavalent Chromium	BXG2618-BS1	LCS	0.051212	0.050000	mg/L	102		85 - 115		
QC Batch ID: BXH0244										
Total Recoverable Chromium	BXH0244-BS1	LCS	40.055	40.000	ug/L	100		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXG2618		Used client sample: Y - Description: MW-11-1, 07/29/2014 09:40								
Hexavalent Chromium	DUP	1417037-06	ND	ND		mg/L			10	
	MS	1417037-06	ND	0.052399	0.052632	mg/L		99.6	85 - 115	
	MSD	1417037-06	ND	0.052303	0.052632	mg/L	0.2	99.4	10	85 - 115
QC Batch ID: BXH0244		Used client sample: Y - Description: MW-11-1, 07/29/2014 09:40								
Total Recoverable Chromium	DUP	1417037-06	ND	ND		ug/L			20	
	MS	1417037-06	ND	36.692	40.000	ug/L		91.7	70 - 130	
	MSD	1417037-06	ND	38.202	40.000	ug/L	4.0	95.5	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: 08/22/2014

David Conner

Tidewater Inc.

3761 Attucks Drive
Powell, OH 43065

Client Project: 3rd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1417142
Invoice ID: B181363

Enclosed are the results of analyses for samples received by the laboratory on 7/30/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form

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Report To: Tidewater, Inc. **Client:** Tidewater, Inc. (P.O. #1213-000-02)
Atttn: David Conner **Attn:** As directed by Ben Headington
Street Address: 3761 Attucks Drive **Address:** 6625 Seimick Drive, Suite A
City: Powell **State:** OH **Zip:** 43065 **City:** Elkridge **State:** MD **Zip:** 21034
Phone: 614 792-2897 **Fax:** 614 792-2897 **Are there any tests with holding times?**
Email Address: david.conner@tideh2o.net **Submission #:** 14-17142 Yes No
 *Standard Turnaround = 10

Project Description: JPL-GW Monitoring **Analysis Requested:**
 Hexavalent Cr (796)
 Nitrite (353.2)
 Orthophosphate (365.1)
 Chloride, Nitrate, Sulfate (300)
 Perchlorate (EPA 314.0)
 Total Cr (200.8)
 VOCs EPA 524.2
 Total Cr (200.8)
 Perchlorate (EPA 314.0)
 Chloride, Nitrate, Sulfate (300)
 Orthophosphate (365.1)
 Nitrite (353.2)
 Hexavalent Cr (796)

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

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-3-730/14	7-30-14	0700	XQ
-2	SB-2-730/14	0710		
-3	EB-3-730/14	0710		
-4	MW-17-4	0800		
-5	MW-17-3	0900		
-6	DUP-Z-30/14	0910		
-7	MW-17-2	0950		
-8	MW-18-5	1100		
-9	MW-18-4	1140		
-10	DUP-3-30/14	1150		
-11	MW-18-3	1300		✓

Notes:
 SHORT HOLDING TIME
 DO Cl₂ BOD MBAS COT
 CHK BY DISTRIBUTION
 MWA
 SUB-OUT

Billing:
Client: Tidewater, Inc. (P.O. #1213-000-02)
Attn: As directed by Ben Headington
Address: 6625 Seimick Drive, Suite A
City: Elkridge **State:** MD **Zip:** 21034
Are there any tests with holding times?
 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:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR
 QC (MS/MSD)
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

Cost Center:
 1. Requisitioned By: _____ Date: 7-30-14 Time: 1930
 2. Requisitioned By: _____ Date: 7-30-14 Time: 1415
 3. Requisitioned By: _____ Date: 7-30-14 Time: 1910

Global ID:
 1. Received By: _____ Date: 7/30/14 Time: 1530
 2. Received By: _____ Date: 7/30/14 Time: 1615
 3. Received By: _____ Date: 7/30/14 Time: 1910

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

***Required Fields**

Report To: Tidelwater, Inc.
 Client: Tidelwater, Inc. (P.O. #1213-000-02)
 Attn: David Corner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: (614) 792-2897 Fax: (614) 792-2897
 Email Address: david.corner@tidedh2o.net
 Submission #: 14-17142

Project Description: JPL-GW Monitoring
 Project Code: 3rd Qtr.
 Sampler(s): Blaine Tech

Analysis Requested

VOCs EPA 524.2	XXX	Matrix*
Total Cr (200.8)	XXX	
Perchlorate (EPA 314.0)		
Chloride, Nitrate, Sulfate (300)		
Orthophosphate (365.1)		
Nitrite (353.2)		
Hexavalent Cr (7196)	X	

Date: 7-30-14 Time: 13:40

Billing

Client: Tidelwater, Inc. (P.O. #1213-000-02)
 Attn: As directed by Ben Headington
 Address: 6625 Seilnick Drive, Suite A
 City: Elkridge State: MD Zip: 21075
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Notes

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:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

Cost Center:
 1. Relinquished By: [Signature] Date: 7/30/14 Time: 15:30
 2. Relinquished By: NICOLA Date: 7/30/14 Time: 16:15
 3. Relinquished By: [Signature] Date: 7/30/14 Time: 19:10

Global ID:
 1. Received By: [Signature] Date: 7/30/14 Time: 15:30
 2. Received By: [Signature] Date: 7/30/14 Time: 16:15
 3. Received By: [Signature] Date: 7/30/14 Time: 19:10

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 2

Submission #: 14-17142

SHIPPING INFORMATION Federal Express UPS Hand Delivery BC Lab Field Service Other

SHIPPING CONTAINER Ice Chest None Box Other

FREE LIQUID YES NO

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: 0.97 Container: Voas Thermometer ID: 207 Date/Time: 7/30/14 11:10 Temperature: (A) 0.4 C (C) 0.7 C Analyst Init: M

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: MWA Date/Time: 7/30/14 10:19:25



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 14-17142

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

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: 0.97 Container: Vials Thermometer ID: 207 Date/Time: 7/30/14 11:10
 Temperature: (A) 0.4 °C (C) 0.7 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	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										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A(6)	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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: MWA Date/Time: 7/30/14 11:10 IS:\WPDoc\WordPerfect\LAB_DOC\FORMS\SAMREC16
 A = Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417142-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-3-7/30/14 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-3-7/30/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1417142-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: SB-2-7/30/14 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 07:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-2-7/30/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1417142-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-3-7/30/14 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 07:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-3-7/30/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417142-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417142-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417142-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-2-3Q14 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 09:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-2-3Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417142-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 09:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1417142-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-5 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1417142-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 11:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1417142-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-3-3Q14 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 11:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-3-3Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1417142-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1417142-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/30/2014 19:10 Sampling Date: 07/30/2014 13:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-01	Client Sample Name: JPL-GW, TB-3-7/30/14, 7/30/2014 7:00:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-01	Client Sample Name: JPL-GW, TB-3-7/30/14, 7/30/2014 7:00:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-01	Client Sample Name: JPL-GW, TB-3-7/30/14, 7/30/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.0	%	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	08/01/14	08/01/14 14:37	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-01	Client Sample Name: JPL-GW, TB-3-7/30/14, 7/30/2014 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	08/01/14	08/01/14 14:37	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-02	Client Sample Name: JPL-GW, SB-2-7/30/14, 7/30/2014 7:10:00AM, 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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-02	Client Sample Name: JPL-GW, SB-2-7/30/14, 7/30/2014 7:10:00AM, 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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-02	Client Sample Name: JPL-GW, SB-2-7/30/14, 7/30/2014 7:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.4	%	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	08/01/14	08/01/14 15:00	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-02	Client Sample Name: JPL-GW, SB-2-7/30/14, 7/30/2014 7:10:00AM, 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	08/01/14	08/01/14 15:00	MGC	MS-V5	1	BXH0004

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417142-02	Client Sample Name: JPL-GW, SB-2-7/30/14, 7/30/2014 7:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/14/14	08/14/14 05:27	OLH	IC6	1	BXH1608

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417142-02	Client Sample Name: JPL-GW, SB-2-7/30/14, 7/30/2014 7:10:00AM, 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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/30/14	07/30/14	23:33	OLH	KONE-1	1	BXG2710
2	EPA-200.8	08/05/14	08/05/14	22:52	EAR	PE-EL2	1	BXH0245

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-03	Client Sample Name: JPL-GW, EB-3-7/30/14, 7/30/2014 7:20:00AM, 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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-03	Client Sample Name: JPL-GW, EB-3-7/30/14, 7/30/2014 7:20:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-03	Client Sample Name: JPL-GW, EB-3-7/30/14, 7/30/2014 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.2	%	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	08/01/14	08/01/14 15:22	MGC	MS-V5	1	BXH0004

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-03	Client Sample Name: JPL-GW, EB-3-7/30/14, 7/30/2014 7:20:00AM, 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	08/01/14	08/01/14 15:22	MGC	MS-V5	1	BXH0004

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417142-03	Client Sample Name: JPL-GW, EB-3-7/30/14, 7/30/2014 7:20:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/14/14	08/14/14 05:41	OLH	IC6	1	BXH1608

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417142-03	Client Sample Name: JPL-GW, EB-3-7/30/14, 7/30/2014 7:20:00AM, 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	0.61	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/30/14	07/30/14	23:33	OLH	KONE-1	1	BXG2710
2	EPA-200.8	08/05/14	08/05/14	22:55	EAR	PE-EL2	1	BXH0245

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-04	Client Sample Name: JPL-GW, MW-17-4, 7/30/2014 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		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	0.91	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	0.79	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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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-04	Client Sample Name: JPL-GW, MW-17-4, 7/30/2014 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	0.54	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-04	Client Sample Name: JPL-GW, MW-17-4, 7/30/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.7	%	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	08/01/14	08/01/14 15:45	MGC	MS-V5	1	BXH0004

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-04	Client Sample Name: JPL-GW, MW-17-4, 7/30/2014 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	08/01/14	08/01/14 15:45	MGC	MS-V5	1	BXH0004

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417142-04	Client Sample Name: JPL-GW, MW-17-4, 7/30/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	18	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/14/14	08/14/14 05:55	OLH	IC6	1	BXH1608

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417142-04	Client Sample Name: JPL-GW, MW-17-4, 7/30/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0023	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/30/14	07/30/14	23:33	OLH	KONE-1	1	BXG2710
2	EPA-200.8	08/05/14	08/05/14	22:59	EAR	PE-EL2	1	BXH0245

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-05	Client Sample Name: JPL-GW, MW-17-3, 7/30/2014 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		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	0.18	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	0.39	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	0.20	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-05	Client Sample Name: JPL-GW, MW-17-3, 7/30/2014 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	0.54	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	0.62	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-05	Client Sample Name: JPL-GW, MW-17-3, 7/30/2014 9:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.2	%	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	08/01/14	08/01/14 16:07	MGC	MS-V5	1	BXH0004

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-05	Client Sample Name: JPL-GW, MW-17-3, 7/30/2014 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	08/01/14	08/01/14 16:07	MGC	MS-V5	1	BXH0004

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417142-05	Client Sample Name: JPL-GW, MW-17-3, 7/30/2014 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	6.4	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/14/14	08/14/14 06:09	OLH	IC6	1	BXH1608

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417142-05	Client Sample Name: JPL-GW, MW-17-3, 7/30/2014 9:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00071	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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/30/14	07/30/14	23:33	OLH	KONE-1	1	BXG2710
2	EPA-200.8	08/05/14	08/05/14	23:02	EAR	PE-EL2	1	BXH0245

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-06	Client Sample Name: JPL-GW, DUP-2-3Q14, 7/30/2014 9:10:00AM, 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	0.20	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	0.40	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	0.20	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-06	Client Sample Name: JPL-GW, DUP-2-3Q14, 7/30/2014 9:10:00AM, 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	0.54	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	0.64	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-06	Client Sample Name: JPL-GW, DUP-2-3Q14, 7/30/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.6	%	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	08/01/14	08/01/14 16:30	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-06	Client Sample Name: JPL-GW, DUP-2-3Q14, 7/30/2014 9:10:00AM, 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	08/01/14	08/01/14 16:30	MGC	MS-V5	1	BXH0004

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417142-06	Client Sample Name: JPL-GW, DUP-2-3Q14, 7/30/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	6.6	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/14/14	08/14/14 22:27	OLH	IC6	1	BXH1608

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Tidewater Inc.
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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417142-06	Client Sample Name: JPL-GW, DUP-2-3Q14, 7/30/2014 9:10:00AM, 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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/30/14	07/30/14	23:39	OLH	KONE-1	1	BXG2710
2	EPA-200.8	08/05/14	08/05/14	23:06	EAR	PE-EL2	1	BXH0245

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-07	Client Sample Name: JPL-GW, MW-17-2, 7/30/2014 9:50:00AM, 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		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-07		Client Sample Name: JPL-GW, MW-17-2, 7/30/2014 9:50:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-07	Client Sample Name: JPL-GW, MW-17-2, 7/30/2014 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.2	%	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	08/01/14	08/01/14 16:53	MGC	MS-V5	1	BXH0004

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-07	Client Sample Name: JPL-GW, MW-17-2, 7/30/2014 9:50:00AM, 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	08/01/14	08/01/14 16:53	MGC	MS-V5	1	BXH0004

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417142-07	Client Sample Name: JPL-GW, MW-17-2, 7/30/2014 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/14/14	08/14/14 06:37	OLH	IC6	1	BXH1608

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417142-07	Client Sample Name: JPL-GW, MW-17-2, 7/30/2014 9:50:00AM, 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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/30/14	07/30/14	23:39	OLH	KONE-1	1	BXG2710
2	EPA-200.8	08/05/14	08/05/14	23:09	EAR	PE-EL2	1	BXH0245

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-08	Client Sample Name: JPL-GW, MW-18-5, 7/30/2014 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		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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-08	Client Sample Name: JPL-GW, MW-18-5, 7/30/2014 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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-08	Client Sample Name: JPL-GW, MW-18-5, 7/30/2014 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.5	%	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	08/01/14	08/01/14 17:15	MGC	MS-V5	1	BXH0004

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-08	Client Sample Name: JPL-GW, MW-18-5, 7/30/2014 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	08/01/14	08/01/14 17:15	MGC	MS-V5	1	BXH0004

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417142-08	Client Sample Name: JPL-GW, MW-18-5, 7/30/2014 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/14/14	08/14/14 07:18	OLH	IC6	1	BXH1608

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-09	Client Sample Name: JPL-GW, MW-18-4, 7/30/2014 11:40:00AM, 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	4.2	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	1.2	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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-09	Client Sample Name: JPL-GW, MW-18-4, 7/30/2014 11:40:00AM, 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	2.2	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	2.2	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-09	Client Sample Name: JPL-GW, MW-18-4, 7/30/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.2	%	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	08/01/14	08/01/14 17:38	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-09	Client Sample Name: JPL-GW, MW-18-4, 7/30/2014 11:40:00AM, 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	08/01/14	08/01/14 17:38	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417142-09	Client Sample Name: JPL-GW, MW-18-4, 7/30/2014 11:40:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	16	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/14/14	08/14/14 07:32	OLH	IC6	1	BXH1608

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417142-09	Client Sample Name: JPL-GW, MW-18-4, 7/30/2014 11:40:00AM, 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	2.4	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	07/30/14	07/30/14 23:39	OLH	KONE-1	1	BXG2710
2	EPA-200.8	08/05/14	08/05/14 23:12	EAR	PE-EL2	1	BXH0245

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-10	Client Sample Name: JPL-GW, DUP-3-3Q14, 7/30/2014 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	5.0	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	1.2	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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-10	Client Sample Name: JPL-GW, DUP-3-3Q14, 7/30/2014 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	2.5	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	2.3	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-10	Client Sample Name: JPL-GW, DUP-3-3Q14, 7/30/2014 11:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.6	%	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	08/01/14	08/01/14 18:01	MGC	MS-V5	1	BXH0004

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-10	Client Sample Name: JPL-GW, DUP-3-3Q14, 7/30/2014 11:50:00AM, 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	08/01/14	08/01/14 18:01	MGC	MS-V5	1	BXH0004

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417142-10	Client Sample Name: JPL-GW, DUP-3-3Q14, 7/30/2014 11:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	16	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/14/14	08/14/14 07:46	OLH	IC6	1	BXH1608

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417142-10	Client Sample Name: JPL-GW, DUP-3-3Q14, 7/30/2014 11:50:00AM, 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	2.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/30/14	07/30/14	23:39	OLH	KONE-1	1	BXG2710
2	EPA-200.8	08/05/14	08/05/14	23:16	EAR	PE-EL2	1	BXH0245

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-11	Client Sample Name: JPL-GW, MW-18-3, 7/30/2014 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	9.6	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	1.7	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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-11	Client Sample Name: JPL-GW, MW-18-3, 7/30/2014 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	0.23	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	0.76	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-11	Client Sample Name: JPL-GW, MW-18-3, 7/30/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.7	%	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	08/01/14	08/01/14 12:21	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-11	Client Sample Name: JPL-GW, MW-18-3, 7/30/2014 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	08/01/14	08/01/14 12:21	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417142-11	Client Sample Name: JPL-GW, MW-18-3, 7/30/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	27	ug/L	8.0	0.90	EPA-314.0	ND	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/14/14	08/14/14 19:27	OLH	IC6	2	BXH1608

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417142-11	Client Sample Name: JPL-GW, MW-18-3, 7/30/2014 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	1.9	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	07/30/14	07/30/14 23:33	OLH	KONE-1	1	BXG2710
2	EPA-200.8	08/05/14	08/05/14 22:25	EAR	PE-EL2	1	BXH0245

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-12	Client Sample Name: JPL-GW, MW-18-2, 7/30/2014 1:40:00PM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-12	Client Sample Name: JPL-GW, MW-18-2, 7/30/2014 1:40:00PM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417142-12	Client Sample Name: JPL-GW, MW-18-2, 7/30/2014 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.9	%	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	08/01/14	08/01/14 18:23	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417142-12	Client Sample Name: JPL-GW, MW-18-2, 7/30/2014 1:40:00PM, 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	08/01/14	08/01/14 18:23	MGC	MS-V5	1	BXH0004

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417142-12	Client Sample Name: JPL-GW, MW-18-2, 7/30/2014 1:40:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/14/14	08/14/14 11:27	OLH	IC6	1	BXH1609

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417142-12	Client Sample Name: JPL-GW, MW-18-2, 7/30/2014 1:40:00PM, 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	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/30/14	07/30/14	23:39	OLH	KONE-1	1	BXG2710
2	EPA-200.8	08/05/14	08/05/14	23:19	EAR	PE-EL2	1	BXH0245

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0004						
Benzene	BXH0004-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXH0004-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXH0004-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXH0004-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXH0004-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXH0004-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXH0004-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXH0004-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXH0004-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXH0004-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXH0004-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXH0004-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXH0004-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXH0004-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXH0004-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXH0004-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXH0004-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXH0004-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXH0004-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXH0004-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXH0004-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXH0004-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXH0004-BLK1	ND	ug/L	0.50	0.14	

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0004						
trans-1,3-Dichloropropene	BXH0004-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXH0004-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXH0004-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXH0004-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXH0004-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXH0004-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXH0004-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXH0004-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXH0004-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXH0004-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXH0004-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXH0004-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXH0004-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXH0004-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXH0004-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXH0004-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXH0004-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXH0004-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXH0004-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXH0004-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXH0004-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXH0004-BLK1	ND	ug/L	4.0	0.97	

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0004						
Ethyl t-butyl ether	BXH0004-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXH0004-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXH0004-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXH0004-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXH0004-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXH0004-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXH0004-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXH0004-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXH0004-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXH0004-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXH0004-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXH0004-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXH0004-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXH0004-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXH0004-BLK1	89.0	%	80 - 120 (LCL - UCL)		

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0004										
Benzene	BXH0004-BS1	LCS	24.860	25.000	ug/L	99.4		70 - 130		
Bromodichloromethane	BXH0004-BS1	LCS	25.490	25.000	ug/L	102		70 - 130		
Chlorobenzene	BXH0004-BS1	LCS	25.240	25.000	ug/L	101		70 - 130		
Chloroethane	BXH0004-BS1	LCS	28.540	25.000	ug/L	114		70 - 130		
1,4-Dichlorobenzene	BXH0004-BS1	LCS	26.810	25.000	ug/L	107		70 - 130		
1,1-Dichloroethane	BXH0004-BS1	LCS	24.340	25.000	ug/L	97.4		70 - 130		
1,1-Dichloroethene	BXH0004-BS1	LCS	24.000	25.000	ug/L	96.0		70 - 130		
Toluene	BXH0004-BS1	LCS	24.350	25.000	ug/L	97.4		70 - 130		
Trichloroethene	BXH0004-BS1	LCS	24.270	25.000	ug/L	97.1		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXH0004-BS1	LCS	10.410	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BXH0004-BS1	LCS	10.000	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXH0004-BS1	LCS	10.110	10.000	ug/L	101		80 - 120		

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0004		Used client sample: Y - Description: MW-18-3, 07/30/2014 13:00								
Benzene	MS	1417142-11	ND	24.100	25.000	ug/L		96.4		70 - 130
	MSD	1417142-11	ND	23.730	25.000	ug/L	1.5	94.9	20	70 - 130
Bromodichloromethane	MS	1417142-11	ND	25.150	25.000	ug/L		101		70 - 130
	MSD	1417142-11	ND	25.300	25.000	ug/L	0.6	101	20	70 - 130
Chlorobenzene	MS	1417142-11	ND	24.300	25.000	ug/L		97.2		70 - 130
	MSD	1417142-11	ND	24.170	25.000	ug/L	0.5	96.7	20	70 - 130
Chloroethane	MS	1417142-11	ND	27.250	25.000	ug/L		109		70 - 130
	MSD	1417142-11	ND	27.480	25.000	ug/L	0.8	110	20	70 - 130
1,4-Dichlorobenzene	MS	1417142-11	ND	25.940	25.000	ug/L		104		70 - 130
	MSD	1417142-11	ND	25.630	25.000	ug/L	1.2	103	20	70 - 130
1,1-Dichloroethane	MS	1417142-11	ND	23.320	25.000	ug/L		93.3		70 - 130
	MSD	1417142-11	ND	23.700	25.000	ug/L	1.6	94.8	20	70 - 130
1,1-Dichloroethene	MS	1417142-11	ND	22.730	25.000	ug/L		90.9		70 - 130
	MSD	1417142-11	ND	23.330	25.000	ug/L	2.6	93.3	20	70 - 130
Toluene	MS	1417142-11	ND	23.810	25.000	ug/L		95.2		70 - 130
	MSD	1417142-11	ND	23.670	25.000	ug/L	0.6	94.7	20	70 - 130
Trichloroethene	MS	1417142-11	0.76000	24.200	25.000	ug/L		93.8		70 - 130
	MSD	1417142-11	0.76000	23.140	25.000	ug/L	4.5	89.5	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1417142-11	ND	10.350	10.000	ug/L		104		75 - 125
	MSD	1417142-11	ND	10.560	10.000	ug/L	2.0	106		75 - 125
Toluene-d8 (Surrogate)	MS	1417142-11	ND	9.9300	10.000	ug/L		99.3		80 - 120
	MSD	1417142-11	ND	9.9700	10.000	ug/L	0.4	99.7		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1417142-11	ND	10.150	10.000	ug/L		102		80 - 120
	MSD	1417142-11	ND	10.380	10.000	ug/L	2.2	104		80 - 120

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0004						
Chloroacetonitrile	BXH0004-BLK1	0	ug/L			
1-Chlorobutane	BXH0004-BLK1	0	ug/L			
1,1-Dichloropropanone	BXH0004-BLK1	0	ug/L			
Methyl acrylate	BXH0004-BLK1	0	ug/L			
Nitrobenzene	BXH0004-BLK1	0	ug/L			
2-Nitropropane	BXH0004-BLK1	0	ug/L			

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1608						
Perchlorate	BXH1608-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXH1609						
Perchlorate	BXH1609-BLK1	ND	ug/L	4.0	0.45	

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Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1608											
Perchlorate	BXH1608-BS1	LCS	9.4433	10.000	ug/L	94.4		85	115		
QC Batch ID: BXH1609											
Perchlorate	BXH1609-BS1	LCS	8.6289	10.000	ug/L	86.3		85	115		

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1608		Used client sample: Y - Description: MW-18-3, 07/30/2014 13:00								
Perchlorate	DUP	417142-11RE'	26.761	27.631		ug/L	3.2		15	
	MS	417142-11RE'	26.761	48.265	20.202	ug/L		106		80 - 120
	MSD	417142-11RE'	26.761	47.033	20.202	ug/L	2.6	100	15	80 - 120
QC Batch ID: BXH1609		Used client sample: Y - Description: FBRIN, 07/31/2014 10:08								
Perchlorate	DUP	1417233-03	14.815	14.824		ug/L	0.1		15	
	MS	1417233-03	14.815	24.636	10.101	ug/L		97.2		80 - 120
	MSD	1417233-03	14.815	23.926	10.101	ug/L	2.9	90.2	15	80 - 120

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Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXG2710						
Hexavalent Chromium	BXG2710-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXH0245						
Total Recoverable Chromium	BXH0245-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXG2710										
Hexavalent Chromium	BXG2710-BS1	LCS	0.049604	0.050000	mg/L	99.2		85	115	
QC Batch ID: BXH0245										
Total Recoverable Chromium	BXH0245-BS1	LCS	43.781	40.000	ug/L	109		85	115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXG2710		Used client sample: Y - Description: MW-18-3, 07/30/2014 13:00								
Hexavalent Chromium	DUP	1417142-11	0.0014870	0.0015330		mg/L	3.0		10	J
	MS	1417142-11	0.0014870	0.052658	0.052632	mg/L		97.2	85 - 115	
	MSD	1417142-11	0.0014870	0.052842	0.052632	mg/L	0.3	97.6	10	85 - 115
QC Batch ID: BXH0245		Used client sample: Y - Description: MW-18-3, 07/30/2014 13:00								
Total Recoverable Chromium	DUP	1417142-11	1.8940	2.4760		ug/L	26.6		20	J,A02
	MS	1417142-11	1.8940	40.046	40.000	ug/L		95.4	70 - 130	
	MSD	1417142-11	1.8940	39.560	40.000	ug/L	1.2	94.2	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/22/2014 13:55
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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.
- 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: 08/25/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 3rd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1417234
Invoice ID: B181543

Enclosed are the results of analyses for samples received by the laboratory on 7/31/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form

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Required Fields

Report To: **Tidewater, Inc.**
 Client: **Tidewater, Inc. (P.O. #1213-000-02)**
 Attn: **As directed by Ben Headington**
 Address: **6625 Sealnack Drive, Suite A**
 City: **Elkridge** State: **MD** Zip: **21045**
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Billing
 Client: **Tidewater, Inc. (P.O. #1213-000-02)**
 Attn: **As directed by Ben Headington**
 Address: **6625 Sealnack Drive, Suite A**
 City: **Elkridge** State: **MD** Zip: **21045**
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*	VOCs EPA 524.2	Total Cr (200.8)	Perchlorate (EPA 314.0)	Chloride, Nitrate, Sulfate (300)	Orthophosphate (365.1)	Nitrite (353.2)	Hexavalent Cr (7196)
-1	TB-4-7/31/14	7-31-14	0600	AG	X						
-2	EB-4-7/31/14		0610		X						
-3	MW-22-3		0640		X						
-4	MW-22-2		0720		X						
-5	MW-22-1		0800		X						
-6	MW-24-4		0900		X						
-7	MW-24-3		0935		X						
-8	MW-24-2		1010		X						
-9	MW-24-1		1045		X						
-10	MW-26-2		1145		X						
-11	MW-26-1		1300		X						

Notes
 SHORT HOLDING TIME
 OP-SS
 DO Cl₂ BOD MBAS COT
 Level III
 CHK BY: [Signature]
 SUB-CULT: []

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:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

Cost Center:
 1. Requisitioned By: [Signature] Date: 7-31-14 Time: 1500
 2. Requisitioned By: [Signature] Date: 7-31-14 Time: 1600
 3. Requisitioned By: [Signature] Date: 7-31-14 Time: 1915

Global ID:
 1. Received By: [Signature] Date: 7/31/14 Time: 1500
 2. Received By: [Signature] Date: 7-31-14 Time: 1600
 3. Received By: [Signature] Date: 7-31-14 Time: 1915

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. 17 06/05/14 Page 1 of 2

Submission #: 1417234

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

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

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

COC Received: YES NO Emissivity: 0.97 Container: PE Thermometer ID: 707 Date/Time: 7:31:14 1915

Temperature: (A) 1.2 °C (C) 1.4 °C Analyst Init: JJ

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B	B	B	A	B	B	B	B
PT PE UNPRESERVED									C	
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	B	C	C	D	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
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: MJ Date/Time: 7/5/14 10:00 IS:WPDocWordPerfect\LAB_DOCS\FORMS\SAMREC16

= Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 14-17234

SHIPPING INFORMATION Federal Express UPS Hand Delivery BC Lab Field Service Other

SHIPPING CONTAINER Ice Chest None Box Other

FREE LIQUID YES NO

Refrigerant: Ice Blue Ice None Other Comments:

Custody Seals Ice Chest Containers None Intact? Yes No

All samples received? All samples containers intact? Description(s) match COC?

COC Received YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Temperature: (A) 1.2 C (C) 1.4 C

Date/Time: 1-31-15 Analyst Init: M

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: Date/Time: 7-31-14 10:12



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417234-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-4-7/31/14 Sampled By: BAT	Receive Date: 07/31/2014 19:15 Sampling Date: 07/31/2014 06:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-4-7/31/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1417234-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-4-7/31/14 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2014 19:15 Sampling Date: 07/31/2014 06:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-4-7/31/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1417234-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2014 19:15 Sampling Date: 07/31/2014 06:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417234-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2014 19:15 Sampling Date: 07/31/2014 07:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417234-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2014 19:15 Sampling Date: 07/31/2014 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417234-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2014 19:15 Sampling Date: 07/31/2014 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417234-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2014 19:15 Sampling Date: 07/31/2014 09:35 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417234-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2014 19:15 Sampling Date: 07/31/2014 10:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417234-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2014 19:15 Sampling Date: 07/31/2014 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417234-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-26-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2014 19:15 Sampling Date: 07/31/2014 11:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-26-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417234-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-26-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2014 19:15 Sampling Date: 07/31/2014 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-26-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-01	Client Sample Name: JPL-GW, TB-4-7/31/14, 7/31/2014 6:00:00AM
----------------------------------	--

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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-01		Client Sample Name: JPL-GW, TB-4-7/31/14, 7/31/2014 6:00:00AM						
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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-01	Client Sample Name: JPL-GW, TB-4-7/31/14, 7/31/2014 6:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.9	%	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	08/01/14	08/01/14 18:46	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417234-01	Client Sample Name: JPL-GW, TB-4-7/31/14, 7/31/2014 6:00:00AM
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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	08/01/14	08/01/14 18:46	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-02	Client Sample Name: JPL-GW, EB-4-7/31/14, 7/31/2014 6:10:00AM, 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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-02	Client Sample Name: JPL-GW, EB-4-7/31/14, 7/31/2014 6:10:00AM, 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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-02	Client Sample Name: JPL-GW, EB-4-7/31/14, 7/31/2014 6:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.7	%	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	08/01/14	08/01/14 19:09	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417234-02	Client Sample Name: JPL-GW, EB-4-7/31/14, 7/31/2014 6:10:00AM, 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	08/01/14	08/01/14 19:09	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417234-02	Client Sample Name: JPL-GW, EB-4-7/31/14, 7/31/2014 6:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/21/14	08/21/14 19:40	OLH	IC6	1	BXH1643

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417234-02	Client Sample Name: JPL-GW, EB-4-7/31/14, 7/31/2014 6:10:00AM, 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	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	07/31/14	07/31/14	21:51	OLH	KONE-1	1	BXH0015
2	EPA-200.8	08/06/14	08/06/14	19:19	SRM	PE-EL2	1	BXH0359

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-03	Client Sample Name: JPL-GW, MW-22-3, 7/31/2014 6:40:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-03	Client Sample Name: JPL-GW, MW-22-3, 7/31/2014 6:40:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-03	Client Sample Name: JPL-GW, MW-22-3, 7/31/2014 6:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.4	%	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	08/01/14	08/01/14 19:31	MGC	MS-V5	1	BXH0004

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417234-03	Client Sample Name: JPL-GW, MW-22-3, 7/31/2014 6:40:00AM, 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	08/01/14	08/01/14 19:31	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417234-03	Client Sample Name: JPL-GW, MW-22-3, 7/31/2014 6:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.7	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/21/14	08/21/14 21:03	OLH	IC6	1	BXH1643

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417234-03	Client Sample Name: JPL-GW, MW-22-3, 7/31/2014 6:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0022	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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/31/14	07/31/14	21:51	OLH	KONE-1	1	BXH0015
2	EPA-200.8	08/06/14	08/06/14	19:22	SRM	PE-EL2	1	BXH0359

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-04	Client Sample Name: JPL-GW, MW-22-2, 7/31/2014 7:20:00AM, 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	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	0.14	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-04	Client Sample Name: JPL-GW, MW-22-2, 7/31/2014 7:20:00AM, 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	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	0.090	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-04	Client Sample Name: JPL-GW, MW-22-2, 7/31/2014 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.4	%	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	08/01/14	08/01/14 19:54	MGC	MS-V5	1	BXH0004

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417234-04	Client Sample Name: JPL-GW, MW-22-2, 7/31/2014 7:20:00AM, 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	08/01/14	08/01/14 19:54	MGC	MS-V5	1	BXH0004

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417234-04	Client Sample Name: JPL-GW, MW-22-2, 7/31/2014 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/21/14	08/21/14 21:17	OLH	IC6	1	BXH1643

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417234-04	Client Sample Name: JPL-GW, MW-22-2, 7/31/2014 7:20:00AM, 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	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	07/31/14	07/31/14 21:51	OLH	KONE-1	1	BXH0015
2	EPA-200.8	08/06/14	08/06/14 19:26	SRM	PE-EL2	1	BXH0359

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-05	Client Sample Name: JPL-GW, MW-22-1, 7/31/2014 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		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	0.54	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	0.12	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-05	Client Sample Name: JPL-GW, MW-22-1, 7/31/2014 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	0.59	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	2.2	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-05	Client Sample Name: JPL-GW, MW-22-1, 7/31/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.6	%	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	08/01/14	08/01/14 20:16	MGC	MS-V5	1	BXH0004

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417234-05	Client Sample Name: JPL-GW, MW-22-1, 7/31/2014 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	08/01/14	08/01/14 20:16	MGC	MS-V5	1	BXH0004

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417234-05	Client Sample Name: JPL-GW, MW-22-1, 7/31/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.2	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/21/14	08/21/14 21:30	OLH	IC6	1	BXH1643

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417234-05	Client Sample Name: JPL-GW, MW-22-1, 7/31/2014 8:00:00AM, 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	07/31/14	07/31/14 21:51	OLH	KONE-1	1	BXH0015
2	EPA-200.8	08/06/14	08/06/14 19:29	SRM	PE-EL2	1	BXH0359

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417234-06	Client Sample Name: JPL-GW, MW-24-4, 7/31/2014 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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/31/14	07/31/14	21:51	OLH	KONE-1	1	BXH0015
2	EPA-200.8	08/06/14	08/06/14	19:33	SRM	PE-EL2	1	BXH0359

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-07	Client Sample Name: JPL-GW, MW-24-3, 7/31/2014 9:35:00AM, 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	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	0.16	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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-07	Client Sample Name: JPL-GW, MW-24-3, 7/31/2014 9:35:00AM, 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	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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-07	Client Sample Name: JPL-GW, MW-24-3, 7/31/2014 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.8	%	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	08/01/14	08/01/14 20:39	MGC	MS-V5	1	BXH0004

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417234-07	Client Sample Name: JPL-GW, MW-24-3, 7/31/2014 9:35:00AM, 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	08/01/14	08/01/14 20:39	MGC	MS-V5	1	BXH0004

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417234-07	Client Sample Name: JPL-GW, MW-24-3, 7/31/2014 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/21/14	08/21/14 21:44	OLH	IC6	1	BXH1643

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417234-07	Client Sample Name: JPL-GW, MW-24-3, 7/31/2014 9:35:00AM, 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	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	07/31/14	07/31/14	21:57	OLH	KONE-1	1	BXH0015
2	EPA-200.8	08/06/14	08/06/14	18:50	SRM	PE-EL2	1	BXH0359

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-08	Client Sample Name: JPL-GW, MW-24-2, 7/31/2014 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	0.95	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	1.1	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	0.16	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-08	Client Sample Name: JPL-GW, MW-24-2, 7/31/2014 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	0.20	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-08	Client Sample Name: JPL-GW, MW-24-2, 7/31/2014 10:10:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	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	08/01/14	08/01/14 21:02	MGC	MS-V5	1	BXH0004

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417234-08	Client Sample Name: JPL-GW, MW-24-2, 7/31/2014 10:10:00AM, 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	08/01/14	08/01/14 21:02	MGC	MS-V5	1	BXH0004

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417234-08	Client Sample Name: JPL-GW, MW-24-2, 7/31/2014 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	6.0	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/21/14	08/22/14 04:53	LD1	IC6	1	BXH1643

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417234-08	Client Sample Name: JPL-GW, MW-24-2, 7/31/2014 10:10:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0021	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/31/14	07/31/14	21:57	OLH	KONE-1	1	BXH0015
2	EPA-200.8	08/06/14	08/06/14	19:36	SRM	PE-EL2	1	BXH0359

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-09	Client Sample Name: JPL-GW, MW-24-1, 7/31/2014 10:45:00AM, 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	3.0	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-09	Client Sample Name: JPL-GW, MW-24-1, 7/31/2014 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-09	Client Sample Name: JPL-GW, MW-24-1, 7/31/2014 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.7	%	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	08/01/14	08/02/14 00:03	MGC	MS-V5	1	BXH0005

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417234-09	Client Sample Name: JPL-GW, MW-24-1, 7/31/2014 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	08/01/14	08/02/14 00:03	MGC	MS-V5	1	BXH0005

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417234-09	Client Sample Name: JPL-GW, MW-24-1, 7/31/2014 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	86	mg/L	0.50	0.067	EPA-300.0	ND		1
Nitrate as N	1.3	mg/L	0.10	0.025	EPA-300.0	ND		1
Sulfate	47	mg/L	1.0	0.18	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		3
ortho-Phosphate as P	ND	mg/L	0.020	0.0040	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/01/14	08/01/14 06:39	LD1	IC2	1	BXH0048
2	EPA-353.2	08/01/14	08/01/14 08:16	TDC	KONE-1	1	BXG2715
3	EPA-314.0	08/21/14	08/21/14 22:12	OLH	IC6	1	BXH1643
4	EPA-365.1	08/01/14	08/01/14 09:25	TDC	KONE-1	1	BXH0014

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417234-09	Client Sample Name: JPL-GW, MW-24-1, 7/31/2014 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	6.1	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	07/31/14	07/31/14	21:57	OLH	KONE-1	1	BXH0015
2	EPA-200.8	08/06/14	08/06/14	19:39	SRM	PE-EL2	1	BXH0359

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-10	Client Sample Name: JPL-GW, MW-26-2, 7/31/2014 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	0.17	ug/L	0.50	0.14	EPA-524.2	ND	J	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	1.3	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	0.15	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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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-10	Client Sample Name: JPL-GW, MW-26-2, 7/31/2014 11:45:00AM, 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	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	0.25	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-10	Client Sample Name: JPL-GW, MW-26-2, 7/31/2014 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.9	%	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	08/01/14	08/02/14 02:41	MGC	MS-V5	1	BXH0005

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417234-10	Client Sample Name: JPL-GW, MW-26-2, 7/31/2014 11:45:00AM, 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	08/01/14	08/02/14 02:41	MGC	MS-V5	1	BXH0005

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417234-10	Client Sample Name: JPL-GW, MW-26-2, 7/31/2014 11:45:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.1	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/21/14	08/21/14 22:26	OLH	IC6	1	BXH1643

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417234-10	Client Sample Name: JPL-GW, MW-26-2, 7/31/2014 11:45:00AM, 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	2.0	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	07/31/14	07/31/14 21:57	OLH	KONE-1	1	BXH0015
2	EPA-200.8	08/06/14	08/06/14 19:43	SRM	PE-EL2	1	BXH0359

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Tidewater Inc.
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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-11	Client Sample Name: JPL-GW, MW-26-1, 7/31/2014 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		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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-11	Client Sample Name: JPL-GW, MW-26-1, 7/31/2014 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	0.72	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	0.41	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417234-11	Client Sample Name: JPL-GW, MW-26-1, 7/31/2014 1:00:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.3	%	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	08/01/14	08/02/14 03:03	MGC	MS-V5	1	BXH0005

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417234-11	Client Sample Name: JPL-GW, MW-26-1, 7/31/2014 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	08/01/14	08/02/14 03:03	MGC	MS-V5	1	BXH0005

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417234-11	Client Sample Name: JPL-GW, MW-26-1, 7/31/2014 1:00:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.9	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/21/14	08/21/14 22:40	OLH	IC6	1	BXH1643

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417234-11	Client Sample Name: JPL-GW, MW-26-1, 7/31/2014 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	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	07/31/14	07/31/14	21:57	OLH	KONE-1	1	BXH0015
2	EPA-200.8	08/06/14	08/06/14	19:46	SRM	PE-EL2	1	BXH0359

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0004						
Benzene	BXH0004-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXH0004-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXH0004-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXH0004-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXH0004-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXH0004-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXH0004-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXH0004-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXH0004-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXH0004-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXH0004-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXH0004-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXH0004-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXH0004-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXH0004-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXH0004-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXH0004-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXH0004-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXH0004-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXH0004-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXH0004-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXH0004-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXH0004-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0004						
trans-1,3-Dichloropropene	BXH0004-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXH0004-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXH0004-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXH0004-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXH0004-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXH0004-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXH0004-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXH0004-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXH0004-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXH0004-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXH0004-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXH0004-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXH0004-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXH0004-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXH0004-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXH0004-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXH0004-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXH0004-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXH0004-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXH0004-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXH0004-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXH0004-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXH0004-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXH0004-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0004

Ethyl t-butyl ether	BXH0004-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXH0004-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXH0004-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXH0004-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXH0004-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXH0004-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXH0004-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXH0004-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXH0004-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXH0004-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXH0004-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXH0004-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXH0004-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXH0004-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXH0004-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXH0004-BLK1	89.0	%	80 - 120 (LCL - UCL)		

QC Batch ID: BXH0005

Benzene	BXH0005-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXH0005-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXH0005-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXH0005-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXH0005-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXH0005-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXH0005-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXH0005-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXH0005-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXH0005-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXH0005-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXH0005-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXH0005-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXH0005-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXH0005-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXH0005-BLK1	ND	ug/L	0.50	0.15	

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Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0005						
Dibromochloromethane	BXH0005-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXH0005-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXH0005-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXH0005-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXH0005-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXH0005-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXH0005-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXH0005-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXH0005-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXH0005-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXH0005-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXH0005-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXH0005-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXH0005-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXH0005-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXH0005-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXH0005-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXH0005-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXH0005-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXH0005-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXH0005-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXH0005-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXH0005-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXH0005-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXH0005-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXH0005-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXH0005-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXH0005-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXH0005-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXH0005-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXH0005-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXH0005-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXH0005-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXH0005-BLK1	ND	ug/L	0.50	0.19	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0005						
1,1,1-Trichloroethane	BXH0005-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXH0005-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXH0005-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXH0005-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXH0005-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXH0005-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXH0005-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXH0005-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXH0005-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXH0005-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXH0005-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXH0005-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXH0005-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXH0005-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXH0005-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXH0005-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXH0005-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXH0005-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXH0005-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXH0005-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXH0005-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXH0005-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXH0005-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXH0005-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXH0005-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXH0005-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXH0005-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXH0005-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXH0005-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXH0005-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXH0005-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXH0005-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXH0005-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXH0005-BLK1	87.3	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0004										
Benzene	BXH0004-BS1	LCS	24.860	25.000	ug/L	99.4		70 - 130		
Bromodichloromethane	BXH0004-BS1	LCS	25.490	25.000	ug/L	102		70 - 130		
Chlorobenzene	BXH0004-BS1	LCS	25.240	25.000	ug/L	101		70 - 130		
Chloroethane	BXH0004-BS1	LCS	28.540	25.000	ug/L	114		70 - 130		
1,4-Dichlorobenzene	BXH0004-BS1	LCS	26.810	25.000	ug/L	107		70 - 130		
1,1-Dichloroethane	BXH0004-BS1	LCS	24.340	25.000	ug/L	97.4		70 - 130		
1,1-Dichloroethene	BXH0004-BS1	LCS	24.000	25.000	ug/L	96.0		70 - 130		
Toluene	BXH0004-BS1	LCS	24.350	25.000	ug/L	97.4		70 - 130		
Trichloroethene	BXH0004-BS1	LCS	24.270	25.000	ug/L	97.1		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXH0004-BS1	LCS	10.410	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BXH0004-BS1	LCS	10.000	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXH0004-BS1	LCS	10.110	10.000	ug/L	101		80 - 120		
QC Batch ID: BXH0005										
Benzene	BXH0005-BS1	LCS	25.450	25.000	ug/L	102		70 - 130		
Bromodichloromethane	BXH0005-BS1	LCS	26.970	25.000	ug/L	108		70 - 130		
Chlorobenzene	BXH0005-BS1	LCS	24.990	25.000	ug/L	100		70 - 130		
Chloroethane	BXH0005-BS1	LCS	28.880	25.000	ug/L	116		70 - 130		
1,4-Dichlorobenzene	BXH0005-BS1	LCS	25.980	25.000	ug/L	104		70 - 130		
1,1-Dichloroethane	BXH0005-BS1	LCS	25.630	25.000	ug/L	103		70 - 130		
1,1-Dichloroethene	BXH0005-BS1	LCS	25.930	25.000	ug/L	104		70 - 130		
Toluene	BXH0005-BS1	LCS	25.260	25.000	ug/L	101		70 - 130		
Trichloroethene	BXH0005-BS1	LCS	25.160	25.000	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXH0005-BS1	LCS	10.300	10.000	ug/L	103		75 - 125		
Toluene-d8 (Surrogate)	BXH0005-BS1	LCS	10.190	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXH0005-BS1	LCS	10.140	10.000	ug/L	101		80 - 120		

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch ID: BXH0004 and Used client sample: Y - Description: MW-18-3, 07/30/2014 13:00.

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch ID: BXH0005 and Used client sample: Y - Description: MW-24-1, 07/31/2014 10:45.

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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0005		Used client sample: Y - Description: MW-24-1, 07/31/2014 10:45								
1,1-Dichloroethene	MS	1417234-09	ND	26.250	25.000	ug/L		105		70 - 130
	MSD	1417234-09	ND	25.620	25.000	ug/L	2.4	102	20	70 - 130
Toluene	MS	1417234-09	ND	25.530	25.000	ug/L		102		70 - 130
	MSD	1417234-09	ND	24.440	25.000	ug/L	4.4	97.8	20	70 - 130
Trichloroethene	MS	1417234-09	ND	25.390	25.000	ug/L		102		70 - 130
	MSD	1417234-09	ND	24.230	25.000	ug/L	4.7	96.9	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1417234-09	ND	10.350	10.000	ug/L		104		75 - 125
	MSD	1417234-09	ND	10.430	10.000	ug/L	0.8	104		75 - 125
Toluene-d8 (Surrogate)	MS	1417234-09	ND	10.160	10.000	ug/L		102		80 - 120
	MSD	1417234-09	ND	9.9900	10.000	ug/L	1.7	99.9		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1417234-09	ND	10.120	10.000	ug/L		101		80 - 120
	MSD	1417234-09	ND	10.130	10.000	ug/L	0.1	101		80 - 120

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0004

Chloroacetonitrile	BXH0004-BLK1	0	ug/L			
1-Chlorobutane	BXH0004-BLK1	0	ug/L			
1,1-Dichloropropanone	BXH0004-BLK1	0	ug/L			
Methyl acrylate	BXH0004-BLK1	0	ug/L			
Nitrobenzene	BXH0004-BLK1	0	ug/L			
2-Nitropropane	BXH0004-BLK1	0	ug/L			

QC Batch ID: BXH0005

Chloroacetonitrile	BXH0005-BLK1	0	ug/L			
1-Chlorobutane	BXH0005-BLK1	0	ug/L			
1,1-Dichloropropanone	BXH0005-BLK1	0	ug/L			
Methyl acrylate	BXH0005-BLK1	0	ug/L			
Nitrobenzene	BXH0005-BLK1	0	ug/L			
2-Nitropropane	BXH0005-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2715						
Nitrite as N	BXG2715-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH0014						
ortho-Phosphate as P	BXH0014-BLK1	ND	mg/L	0.020	0.0040	
QC Batch ID: BXH0048						
Chloride	BXH0048-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH0048-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH0048-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH1643						
Perchlorate	BXH1643-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2715										
Nitrite as N	BXG2715-BS1	LCS	0.49667	0.50000	mg/L	99.3		90 - 110		
QC Batch ID: BXH0014										
ortho-Phosphate as P	BXH0014-BS1	LCS	0.20055	0.20000	mg/L	100		90 - 110		
QC Batch ID: BXH0048										
Chloride	BXH0048-BS1	LCS	51.743	50.000	mg/L	103		90 - 110		
Nitrate as N	BXH0048-BS1	LCS	5.1620	5.0000	mg/L	103		90 - 110		
Sulfate	BXH0048-BS1	LCS	104.98	100.00	mg/L	105		90 - 110		
QC Batch ID: BXH1643										
Perchlorate	BXH1643-BS1	LCS	9.7972	10.000	ug/L	98.0		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXG2715		Used client sample: Y - Description: MW-24-1, 07/31/2014 10:45								
Nitrite as N	DUP	1417234-09	ND	ND		mg/L			10	
	MS	1417234-09	ND	0.54475	0.52632	mg/L		104		90 - 110
	MSD	1417234-09	ND	0.54910	0.52632	mg/L	0.8	104	10	90 - 110
QC Batch ID: BXH0014		Used client sample: Y - Description: MW-24-1, 07/31/2014 10:45								
ortho-Phosphate as P	DUP	1417234-09	ND	ND		mg/L			10	
	MS	1417234-09	ND	0.22029	0.21053	mg/L		105		90 - 110
	MSD	1417234-09	ND	0.22085	0.21053	mg/L	0.3	105	10	90 - 110
QC Batch ID: BXH0048		Used client sample: Y - Description: MW-24-1, 07/31/2014 10:45								
Chloride	DUP	1417234-09	86.356	86.366		mg/L	0.0		10	
	MS	1417234-09	86.356	145.17	50.505	mg/L		116		80 - 120
	MSD	1417234-09	86.356	144.41	50.505	mg/L	0.5	115	10	80 - 120
Nitrate as N	DUP	1417234-09	1.3010	1.2800		mg/L	1.6		10	
	MS	1417234-09	1.3010	6.6040	5.0505	mg/L		105		80 - 120
	MSD	1417234-09	1.3010	6.5566	5.0505	mg/L	0.7	104	10	80 - 120
Sulfate	DUP	1417234-09	47.199	47.281		mg/L	0.2		10	
	MS	1417234-09	47.199	159.86	101.01	mg/L		112		80 - 120
	MSD	1417234-09	47.199	158.90	101.01	mg/L	0.6	111	10	80 - 120
QC Batch ID: BXH1643		Used client sample: Y - Description: EB-4-7/31/14, 07/31/2014 06:10								
Perchlorate	DUP	1417234-02	ND	ND		ug/L			15	
	MS	1417234-02	ND	8.5234	10.101	ug/L		84.4		80 - 120
	MSD	1417234-02	ND	8.8911	10.101	ug/L	4.2	88.0	15	80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0015						
Hexavalent Chromium	BXH0015-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXH0359						
Total Recoverable Chromium	BXH0359-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0015										
Hexavalent Chromium	BXH0015-BS1	LCS	0.049711	0.050000	mg/L	99.4		85	115	
QC Batch ID: BXH0359										
Total Recoverable Chromium	BXH0359-BS1	LCS	38.238	40.000	ug/L	95.6		85	115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0015		Used client sample: Y - Description: EB-4-7/31/14, 07/31/2014 06:10								
Hexavalent Chromium	DUP	1417234-02	ND	ND		mg/L			10	
	MS	1417234-02	ND	0.051208	0.052632	mg/L		97.3		85 - 115
	MSD	1417234-02	ND	0.051202	0.052632	mg/L	0.0	97.3	10	85 - 115
QC Batch ID: BXH0359		Used client sample: Y - Description: MW-24-3, 07/31/2014 09:35								
Total Recoverable Chromium	DUP	1417234-07	ND	ND		ug/L			20	
	MS	1417234-07	ND	36.366	40.000	ug/L		90.9		70 - 130
	MSD	1417234-07	ND	36.111	40.000	ug/L	0.7	90.3	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 16:56
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: 08/25/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 3rd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1417349
Invoice ID: B181546

Enclosed are the results of analyses for samples received by the laboratory on 8/1/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form

Page 1 of 2

Required Fields

Report To: Client: * Tidewater, Inc.
 Attn: * David Conner
 Street Address: * 3761 Attucks Drive
 City: * Powell State: * OH Zip: * 43085
 Phone: * (614) 792-2897 Fax: * (614) 792-2897
 Email Address: david.conner@tideh2o.net
 Submission #: 14-17349

Project Description: * JPL-GW Monitoring
 Project Code: * 3rd Qtr.
 Sampler (s): * Blaine Tech

Billing
 Client: * Tidewater, Inc. (P.O. #1213-000-02)
 Attn: * As directed by Ben Headington
 Address: * 6625 Seimick Drive, Suite A
 City: * Elkridge State: * MD Zip: * 21075
 Are there any tests with holding times?
 less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*	VOCs EPA 524.2	Total Cr (200.8)	Perchlorate (EPA 314.0)	Chloride, Nitrate, Sulfate (300)	Orthophosphate (365.1)	Nitrite (353.2)	Hexavalent Cr (7196)
-1	TR-5-8/1/14	8-1-14	0610	AQ	X	X	X	X	X	X	X
-2	EB-5-8/1/14		0630		X	X	X	X	X	X	X
-3	MW-23-4		0700		X	X	X	X	X	X	X
-4	MW-23-3		0740		X	X	X	X	X	X	X
-5	MW-23-2		0810		X	X	X	X	X	X	X
-6	MW-23-1		0840		X	X	X	X	X	X	X
-7	MW-25-5		0940		X	X	X	X	X	X	X
-8	MW-25-4		1020		X	X	X	X	X	X	X
-9	MW-25-3		1055		X	X	X	X	X	X	X
-10	MW-25-2		1130		X	X	X	X	X	X	X
-11	DUP-4-3014		1140	↓	X	X	X	X	X	X	X

Notes
 SHORT HOLDING TIME
 Cl₂ NO₂ NO₃ OP SS
 DO Cl₂ BOD MBAS COT
 Level IV
 CHK BY DISTRIBUTION
 MW MA MDC
 SUB-OPT
 MW Miscellaneous

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

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:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

Cost Center:
 1. Relinquished By: [Signature] Date: 8/1/14 Time: 1430
 2. Relinquished By: [Signature] Date: 8/1/14 Time: 1605
 3. Relinquished By: [Signature] Date: 8/1/14 Time: 1905

Global ID:
 1. Received By: [Signature] Date: 8/1/14 Time: 1430
 2. Received By: [Signature] Date: 8/1/14 Time: 1605
 3. Received By: [Signature] Date: 8/1/14 Time: 1905

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. 17 06/05/14 Page 1 Of 2

Submission #: 14-17349

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

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: 0.97 Container: PE Thermometer ID: 207
 Temperature: (A) 4.8 °C (C) 5.0 °C

Date/Time: 8/1/14 1905
 Analyst Init: MWI

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	A	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	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										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A(1)									
40ml VOA VIAL		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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: MWI Date/Time: 8/1/14 @ 1910 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMREC16
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 Of 2

Submission #: 14-17349

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) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

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: 0.97 Container: PE Thermometer ID: 207 Date/Time: 8/1/14 1905
 Temperature: (A) 4.8 °C / (C) 5.0 °C Analyst Init: MVI

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	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										
PIA 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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: MVI Date/Time: 8/1/14@1910 IS:WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417349-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-5-8/1/14 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2014 19:05 Sampling Date: 08/01/2014 06:10 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-5-8/1/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1417349-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-5-8/1/14 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2014 19:05 Sampling Date: 08/01/2014 06:30 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-5-8/1/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417349-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-4 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2014 19:05 Sampling Date: 08/01/2014 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417349-04	COC Number: ---	Receive Date: 08/01/2014 19:05
	Project Number: JPL-GW	Sampling Date: 08/01/2014 07:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-23-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-23-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1417349-05	COC Number: ---	Receive Date: 08/01/2014 19:05
	Project Number: JPL-GW	Sampling Date: 08/01/2014 08:10
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-23-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-23-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1417349-06	COC Number: ---	Receive Date: 08/01/2014 19:05
	Project Number: JPL-GW	Sampling Date: 08/01/2014 08:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-23-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-23-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417349-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-5 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2014 19:05 Sampling Date: 08/01/2014 09:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417349-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-4 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2014 19:05 Sampling Date: 08/01/2014 10:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417349-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-3 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2014 19:05 Sampling Date: 08/01/2014 10:55 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417349-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-2 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2014 19:05 Sampling Date: 08/01/2014 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417349-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-4-3Q14 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2014 19:05 Sampling Date: 08/01/2014 11:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-4-3Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1417349-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-1 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2014 19:05 Sampling Date: 08/01/2014 12:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-01	Client Sample Name: JPL-GW, TB-5-8/1/14, 8/1/2014 6:10:00AM, 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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-01	Client Sample Name: JPL-GW, TB-5-8/1/14, 8/1/2014 6:10:00AM, 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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-01	Client Sample Name: JPL-GW, TB-5-8/1/14, 8/1/2014 6:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.3	%	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	08/05/14	08/05/14 10:22	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417349-01	Client Sample Name: JPL-GW, TB-5-8/1/14, 8/1/2014 6:10:00AM, 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	08/05/14	08/05/14 10:22	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-02	Client Sample Name: JPL-GW, EB-5-8/1/14, 8/1/2014 6:30:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-02	Client Sample Name: JPL-GW, EB-5-8/1/14, 8/1/2014 6:30:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-02	Client Sample Name: JPL-GW, EB-5-8/1/14, 8/1/2014 6:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.5	%	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	08/05/14	08/05/14 10:44	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417349-02	Client Sample Name: JPL-GW, EB-5-8/1/14, 8/1/2014 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	08/05/14	08/05/14 10:44	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417349-02	Client Sample Name: JPL-GW, EB-5-8/1/14, 8/1/2014 6:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 04:31	LD1	IC6	1	BXH1645

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Tidewater Inc.
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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417349-02	Client Sample Name: JPL-GW, EB-5-8/1/14, 8/1/2014 6:30:00AM, 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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	08/01/14	08/01/14	21:26	OLH	KONE-1	1	BXH0140
2	EPA-200.8	08/07/14	08/07/14	14:57	SRM	PE-EL2	1	BXH0483

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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417349-03	Client Sample Name: JPL-GW, MW-23-4, 8/1/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0027	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	08/01/14	08/01/14	21:26	OLH	KONE-1	1	BXH0140
2	EPA-200.8	08/07/14	08/07/14	15:34	SRM	PE-EL2	1	BXH0483

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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-04	Client Sample Name: JPL-GW, MW-23-3, 8/1/2014 7:40:00AM, 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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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-04	Client Sample Name: JPL-GW, MW-23-3, 8/1/2014 7:40:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-04	Client Sample Name: JPL-GW, MW-23-3, 8/1/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.3	%	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	08/05/14	08/05/14 08:06	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417349-04	Client Sample Name: JPL-GW, MW-23-3, 8/1/2014 7:40:00AM, 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	08/05/14	08/05/14 08:06	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417349-04	Client Sample Name: JPL-GW, MW-23-3, 8/1/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.9	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 04:44	LD1	IC6	1	BXH1645

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417349-04	Client Sample Name: JPL-GW, MW-23-3, 8/1/2014 7:40:00AM, 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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	08/01/14	08/01/14	21:26	OLH	KONE-1	1	BXH0140
2	EPA-200.8	08/07/14	08/07/14	15:38	SRM	PE-EL2	1	BXH0483

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-05	Client Sample Name: JPL-GW, MW-23-2, 8/1/2014 8:10:00AM, 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	0.61	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	0.21	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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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-05	Client Sample Name: JPL-GW, MW-23-2, 8/1/2014 8:10:00AM, 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	0.51	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	1.4	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-05	Client Sample Name: JPL-GW, MW-23-2, 8/1/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	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	08/05/14	08/05/14 11:07	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417349-05	Client Sample Name: JPL-GW, MW-23-2, 8/1/2014 8:10:00AM, 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	08/05/14	08/05/14 11:07	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417349-05	Client Sample Name: JPL-GW, MW-23-2, 8/1/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.4	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/21/14	08/22/14 06:43	OLH	IC6	1	BXH2362

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417349-05	Client Sample Name: JPL-GW, MW-23-2, 8/1/2014 8:10:00AM, Blaine Tech
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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	1.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	08/01/14	08/01/14	21:26	OLH	KONE-1	1	BXH0140
2	EPA-200.8	08/07/14	08/07/14	15:41	SRM	PE-EL2	1	BXH0483

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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-06	Client Sample Name: JPL-GW, MW-23-1, 8/1/2014 8:40:00AM, 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	0.59	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	0.13	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	0.18	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-06	Client Sample Name: JPL-GW, MW-23-1, 8/1/2014 8:40:00AM, 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	0.52	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	3.8	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-06	Client Sample Name: JPL-GW, MW-23-1, 8/1/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	105	%	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	08/05/14	08/05/14 11:30	MGC	MS-V5	1	BXH0177

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417349-06	Client Sample Name: JPL-GW, MW-23-1, 8/1/2014 8:40:00AM, 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	08/05/14	08/05/14 11:30	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417349-06	Client Sample Name: JPL-GW, MW-23-1, 8/1/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.8	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/21/14	08/22/14 07:39	OLH	IC6	1	BXH2362

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417349-06	Client Sample Name: JPL-GW, MW-23-1, 8/1/2014 8:40:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0011	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	1.2	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	08/01/14	08/01/14 21:26	OLH	KONE-1	1	BXH0140
2	EPA-200.8	08/07/14	08/07/14 15:45	SRM	PE-EL2	1	BXH0483

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-07	Client Sample Name: JPL-GW, MW-25-5, 8/1/2014 9:40:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-07	Client Sample Name: JPL-GW, MW-25-5, 8/1/2014 9:40:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-07	Client Sample Name: JPL-GW, MW-25-5, 8/1/2014 9:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	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	08/05/14	08/05/14 11:52	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417349-07	Client Sample Name: JPL-GW, MW-25-5, 8/1/2014 9:40:00AM, 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	08/05/14	08/05/14 11:52	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417349-07	Client Sample Name: JPL-GW, MW-25-5, 8/1/2014 9:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 02:40	LD1	IC6	1	BXH1645

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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417349-07	Client Sample Name: JPL-GW, MW-25-5, 8/1/2014 9:40:00AM, 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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	08/01/14	08/01/14	21:33	OLH	KONE-1	1	BXH0140
2	EPA-200.8	08/07/14	08/07/14	15:48	SRM	PE-EL2	1	BXH0483

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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-08	Client Sample Name: JPL-GW, MW-25-4, 8/1/2014 10:20:00AM, 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	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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-08	Client Sample Name: JPL-GW, MW-25-4, 8/1/2014 10:20:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-08	Client Sample Name: JPL-GW, MW-25-4, 8/1/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/05/14	08/05/14 12:15	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417349-08	Client Sample Name: JPL-GW, MW-25-4, 8/1/2014 10:20:00AM, 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	08/05/14	08/05/14 12:15	MGC	MS-V5	1	BXH0177

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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417349-08	Client Sample Name: JPL-GW, MW-25-4, 8/1/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	11	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 05:26	LD1	IC6	1	BXH1645

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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417349-08	Client Sample Name: JPL-GW, MW-25-4, 8/1/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00085	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	08/01/14	08/01/14	21:33	OLH	KONE-1	1	BXH0140
2	EPA-200.8	08/07/14	08/07/14	16:01	SRM	PE-EL2	1	BXH0483

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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-09	Client Sample Name: JPL-GW, MW-25-3, 8/1/2014 10:55:00AM, 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	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	0.54	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-09	Client Sample Name: JPL-GW, MW-25-3, 8/1/2014 10:55:00AM, 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	0.45	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-09	Client Sample Name: JPL-GW, MW-25-3, 8/1/2014 10:55:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.0	%	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	08/05/14	08/05/14 12:37	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417349-09	Client Sample Name: JPL-GW, MW-25-3, 8/1/2014 10:55:00AM, 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	08/05/14	08/05/14 12:37	MGC	MS-V5	1	BXH0177

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417349-09	Client Sample Name: JPL-GW, MW-25-3, 8/1/2014 10:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	12	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 05:40	LD1	IC6	1	BXH1645

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417349-09	Client Sample Name: JPL-GW, MW-25-3, 8/1/2014 10:55:00AM, 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	3.5	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	08/01/14	08/01/14 21:33	OLH	KONE-1	1	BXH0140
2	EPA-200.8	08/07/14	08/07/14 16:05	SRM	PE-EL2	1	BXH0483

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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-10	Client Sample Name: JPL-GW, MW-25-2, 8/1/2014 11:30:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-10	Client Sample Name: JPL-GW, MW-25-2, 8/1/2014 11:30:00AM, 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	0.19	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-10	Client Sample Name: JPL-GW, MW-25-2, 8/1/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	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	08/05/14	08/05/14 13:00	MGC	MS-V5	1	BXH0177

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417349-10	Client Sample Name: JPL-GW, MW-25-2, 8/1/2014 11:30:00AM, 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	08/05/14	08/05/14 13:00	MGC	MS-V5	1	BXH0177

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417349-10	Client Sample Name: JPL-GW, MW-25-2, 8/1/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	15	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 05:54	LD1	IC6	1	BXH1645

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417349-10	Client Sample Name: JPL-GW, MW-25-2, 8/1/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0025	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	3.0	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	08/01/14	08/01/14	21:33	OLH	KONE-1	1	BXH0140
2	EPA-200.8	08/07/14	08/07/14	16:08	SRM	PE-EL2	1	BXH0483

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-11 Client Sample Name: JPL-GW, DUP-4-3Q14, 8/1/2014 11:40:00AM, 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	0.16	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-11	Client Sample Name: JPL-GW, DUP-4-3Q14, 8/1/2014 11:40:00AM, 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	0.33	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-11	Client Sample Name: JPL-GW, DUP-4-3Q14, 8/1/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	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	08/05/14	08/05/14 13:22	MGC	MS-V5	1	BXH0177

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417349-11	Client Sample Name: JPL-GW, DUP-4-3Q14, 8/1/2014 11:40:00AM, 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	08/05/14	08/05/14 13:22	MGC	MS-V5	1	BXH0177

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417349-11	Client Sample Name: JPL-GW, DUP-4-3Q14, 8/1/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	15	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 07:03	LD1	IC6	1	BXH1910

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417349-11	Client Sample Name: JPL-GW, DUP-4-3Q14, 8/1/2014 11:40:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0024	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	08/01/14	08/01/14 21:33	OLH	KONE-1	1	BXH0430
2	EPA-200.8	08/07/14	08/07/14 16:11	SRM	PE-EL2	1	BXH0483

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-12	Client Sample Name: JPL-GW, MW-25-1, 8/1/2014 12:40:00PM, 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	0.65	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-12	Client Sample Name: JPL-GW, MW-25-1, 8/1/2014 12:40:00PM, 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	0.31	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	2.4	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417349-12	Client Sample Name: JPL-GW, MW-25-1, 8/1/2014 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.0	%	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	08/05/14	08/05/14 13:45	MGC	MS-V5	1	BXH0177

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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417349-12	Client Sample Name: JPL-GW, MW-25-1, 8/1/2014 12:40:00PM, 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	08/05/14	08/05/14 13:45	MGC	MS-V5	1	BXH0177

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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417349-12	Client Sample Name: JPL-GW, MW-25-1, 8/1/2014 12:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	11	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 07:58	LD1	IC6	1	BXH1910

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Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417349-12	Client Sample Name: JPL-GW, MW-25-1, 8/1/2014 12:40:00PM, 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	0.51	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/01/14	08/01/14 21:36	OLH	KONE-1	1	BXH0430
2	EPA-200.8	08/07/14	08/07/14 14:20	SRM	PE-EL2	1	BXH0484

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0177						
Benzene	BXH0177-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXH0177-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXH0177-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXH0177-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXH0177-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXH0177-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXH0177-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXH0177-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXH0177-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXH0177-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXH0177-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXH0177-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXH0177-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXH0177-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXH0177-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXH0177-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXH0177-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXH0177-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXH0177-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXH0177-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXH0177-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXH0177-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXH0177-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXH0177-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXH0177-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXH0177-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXH0177-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXH0177-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXH0177-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXH0177-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXH0177-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXH0177-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXH0177-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXH0177-BLK1	ND	ug/L	0.50	0.14	

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0177						
trans-1,3-Dichloropropene	BXH0177-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXH0177-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXH0177-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXH0177-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXH0177-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXH0177-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXH0177-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXH0177-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXH0177-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXH0177-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXH0177-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXH0177-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXH0177-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXH0177-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXH0177-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXH0177-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXH0177-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXH0177-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXH0177-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXH0177-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXH0177-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXH0177-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXH0177-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXH0177-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXH0177-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXH0177-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXH0177-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXH0177-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXH0177-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXH0177-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXH0177-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXH0177-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXH0177-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXH0177-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0177						
Ethyl t-butyl ether	BXH0177-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXH0177-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXH0177-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXH0177-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXH0177-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXH0177-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXH0177-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXH0177-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXH0177-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXH0177-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXH0177-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXH0177-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXH0177-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXH0177-BLK1	106	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXH0177-BLK1	103	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXH0177-BLK1	100	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0177										
Benzene	BXH0177-BS1	LCS	24.230	25.000	ug/L	96.9		70 - 130		
Bromodichloromethane	BXH0177-BS1	LCS	25.370	25.000	ug/L	101		70 - 130		
Chlorobenzene	BXH0177-BS1	LCS	24.880	25.000	ug/L	99.5		70 - 130		
Chloroethane	BXH0177-BS1	LCS	28.680	25.000	ug/L	115		70 - 130		
1,4-Dichlorobenzene	BXH0177-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	BXH0177-BS1	LCS	23.970	25.000	ug/L	95.9		70 - 130		
1,1-Dichloroethene	BXH0177-BS1	LCS	24.340	25.000	ug/L	97.4		70 - 130		
Toluene	BXH0177-BS1	LCS	24.920	25.000	ug/L	99.7		70 - 130		
Trichloroethene	BXH0177-BS1	LCS	23.900	25.000	ug/L	95.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXH0177-BS1	LCS	10.750	10.000	ug/L	108		75 - 125		
Toluene-d8 (Surrogate)	BXH0177-BS1	LCS	10.290	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXH0177-BS1	LCS	10.180	10.000	ug/L	102		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0177		Used client sample: Y - Description: MW-23-3, 08/01/2014 07:40								
Benzene	MS	1417349-04	ND	25.460	25.000	ug/L		102		70 - 130
	MSD	1417349-04	ND	23.910	25.000	ug/L	6.3	95.6	20	70 - 130
Bromodichloromethane	MS	1417349-04	ND	26.520	25.000	ug/L		106		70 - 130
	MSD	1417349-04	ND	25.170	25.000	ug/L	5.2	101	20	70 - 130
Chlorobenzene	MS	1417349-04	ND	26.050	25.000	ug/L		104		70 - 130
	MSD	1417349-04	ND	24.060	25.000	ug/L	7.9	96.2	20	70 - 130
Chloroethane	MS	1417349-04	ND	30.380	25.000	ug/L		122		70 - 130
	MSD	1417349-04	ND	28.690	25.000	ug/L	5.7	115	20	70 - 130
1,4-Dichlorobenzene	MS	1417349-04	ND	26.510	25.000	ug/L		106		70 - 130
	MSD	1417349-04	ND	24.660	25.000	ug/L	7.2	98.6	20	70 - 130
1,1-Dichloroethane	MS	1417349-04	ND	25.320	25.000	ug/L		101		70 - 130
	MSD	1417349-04	ND	24.110	25.000	ug/L	4.9	96.4	20	70 - 130
1,1-Dichloroethene	MS	1417349-04	ND	25.500	25.000	ug/L		102		70 - 130
	MSD	1417349-04	ND	23.810	25.000	ug/L	6.9	95.2	20	70 - 130
Toluene	MS	1417349-04	ND	25.890	25.000	ug/L		104		70 - 130
	MSD	1417349-04	ND	24.570	25.000	ug/L	5.2	98.3	20	70 - 130
Trichloroethene	MS	1417349-04	ND	25.130	25.000	ug/L		101		70 - 130
	MSD	1417349-04	ND	23.840	25.000	ug/L	5.3	95.4	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1417349-04	ND	10.270	10.000	ug/L		103		75 - 125
	MSD	1417349-04	ND	10.350	10.000	ug/L	0.8	104		75 - 125
Toluene-d8 (Surrogate)	MS	1417349-04	ND	10.080	10.000	ug/L		101		80 - 120
	MSD	1417349-04	ND	10.100	10.000	ug/L	0.2	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1417349-04	ND	9.9300	10.000	ug/L		99.3		80 - 120
	MSD	1417349-04	ND	9.9500	10.000	ug/L	0.2	99.5		80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0177						
Chloroacetonitrile	BXH0177-BLK1	0	ug/L			
1-Chlorobutane	BXH0177-BLK1	0	ug/L			
1,1-Dichloropropanone	BXH0177-BLK1	0	ug/L			
Methyl acrylate	BXH0177-BLK1	0	ug/L			
Nitrobenzene	BXH0177-BLK1	0	ug/L			
2-Nitropropane	BXH0177-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1645						
Perchlorate	BXH1645-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXH1910						
Perchlorate	BXH1910-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXH2362						
Perchlorate	BXH2362-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1645										
Perchlorate	BXH1645-BS1	LCS	8.6312	10.000	ug/L	86.3		85 - 115		
QC Batch ID: BXH1910										
Perchlorate	BXH1910-BS1	LCS	9.1906	10.000	ug/L	91.9		85 - 115		
QC Batch ID: BXH2362										
Perchlorate	BXH2362-BS1	LCS	9.5544	10.000	ug/L	95.5		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1645		Used client sample: Y - Description: MW-25-5, 08/01/2014 09:40								
Perchlorate	DUP	1417349-07	ND	ND		ug/L			15	
	MS	1417349-07	ND	9.4743	10.101	ug/L		93.8		80 - 120
	MSD	1417349-07	ND	9.5683	10.101	ug/L	1.0	94.7	15	80 - 120
QC Batch ID: BXH1910		Used client sample: Y - Description: DUP-4-3Q14, 08/01/2014 11:40								
Perchlorate	DUP	1417349-11	15.119	15.365		ug/L	1.6		15	
	MS	1417349-11	15.119	25.667	10.101	ug/L		104		80 - 120
	MSD	1417349-11	15.119	25.970	10.101	ug/L	1.2	107	15	80 - 120
QC Batch ID: BXH2362		Used client sample: Y - Description: MW-23-2, 08/01/2014 08:10								
Perchlorate	DUP	417349-05RE'	4.3626	4.7543		ug/L	8.6		15	
	MS	417349-05RE'	4.3626	12.696	10.101	ug/L		82.5		80 - 120
	MSD	417349-05RE'	4.3626	13.967	10.101	ug/L	9.5	95.1	15	80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0140						
Hexavalent Chromium	BXH0140-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXH0430						
Hexavalent Chromium	BXH0430-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXH0483						
Total Recoverable Chromium	BXH0483-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BXH0484						
Total Recoverable Chromium	BXH0484-BLK1	0.51300	ug/L	3.0	0.50	J

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0140										
Hexavalent Chromium	BXH0140-BS1	LCS	0.049502	0.050000	mg/L	99.0		85	115	
QC Batch ID: BXH0430										
Hexavalent Chromium	BXH0430-BS1	LCS	0.048964	0.050000	mg/L	97.9		85	115	
QC Batch ID: BXH0483										
Total Recoverable Chromium	BXH0483-BS1	LCS	42.865	40.000	ug/L	107		85	115	
QC Batch ID: BXH0484										
Total Recoverable Chromium	BXH0484-BS1	LCS	43.990	40.000	ug/L	110		85	115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0140		Used client sample: Y - Description: EB-5-8/1/14, 08/01/2014 06:30								
Hexavalent Chromium	DUP	1417349-02	ND	ND		mg/L			10	
	MS	1417349-02	ND	0.052102	0.052632	mg/L		99.0		85 - 115
	MSD	1417349-02	ND	0.051176	0.052632	mg/L	1.8	97.2	10	85 - 115
QC Batch ID: BXH0430		Used client sample: Y - Description: DUP-4-3Q14, 08/01/2014 11:40								
Hexavalent Chromium	DUP	1417349-11	0.0023640	0.0024100		mg/L	1.9		10	
	MS	1417349-11	0.0023640	0.054547	0.052632	mg/L		99.1		85 - 115
	MSD	1417349-11	0.0023640	0.054797	0.052632	mg/L	0.5	99.6	10	85 - 115
QC Batch ID: BXH0483		Used client sample: Y - Description: EB-5-8/1/14, 08/01/2014 06:30								
Total Recoverable Chromium	DUP	1417349-02	ND	ND		ug/L			20	
	MS	1417349-02	ND	41.106	40.000	ug/L		103		70 - 130
	MSD	1417349-02	ND	41.883	40.000	ug/L	1.9	105	20	70 - 130
QC Batch ID: BXH0484		Used client sample: N								
Total Recoverable Chromium	DUP	1417530-01	4.9640	4.9600		ug/L	0.1		20	
	MS	1417530-01	4.9640	44.312	40.000	ug/L		98.4		70 - 130
	MSD	1417530-01	4.9640	44.103	40.000	ug/L	0.5	97.8	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2014 17:02
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: 08/26/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 3rd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1417461
Invoice ID: B181601

Enclosed are the results of analyses for samples received by the laboratory on 8/4/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form

Report To: Tidelwater, Inc. Client: Tidelwater, Inc. (P.O. #1213-000-02)
 Attn: David Conner Attn: As directed by Ben Headington
 Street Address: 3761 Alttucks Drive Address: 6625 Selnick Drive, Suite A
 City: Powell State: OH Zip: 43065 City: Elkridge State: MD Zip: 21024
 Phone: (614) 792-2897 Fax: (614) 792-2897
 Email Address: david.conner@tideh2o.net
 Submission #: 1417461

Project Description: JPL-GW Monitoring
 Project Code: 3rd Qtr.
 Sampler (s): Blaine Tech

Analysis Requested: Hexavalent Cr (7196), Nitrite (353.2), Orthophosphate (365.1), Chloride, Nitrate, Sulfate (300), Perchlorate (EPA 314.0), Total Cr (200.8), VOCs EPA 524.2

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-6-8/14/14	8-14-14	0700	AQ
-2	EB-6-8/14/14		0720	
-3	MW-3-4		0745	
-4	MW-3-3		0830	
-5	DUP-5-3/14		0840	
-6	MW-3-2		0920	
-7	MW-21-5		1020	
-8	MW-21-4		1105	
-9	DUP-6-3/14		1110	
-10	MW-21-3		1145	
-11	MW-21-2		1310	

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 10-15 Days

Lab TAT Approval: _____

Comments: PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD) 90% Level III and 10% Level IV data validation required: Level IV Notated on C of C NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (inform QC)

Global ID: _____

1. Relinquished By: [Signature] Date: 8-14-14 Time: 1445
 2. Relinquished By: [Signature] Date: 8-14-14 Time: 1550
 3. Relinquished By: [Signature] Date: 8-14-14 Time: 1835

Cost Center: _____

Global ID: _____

1. Received By: [Signature] Date: 8/14/14 Time: 1835
 2. Received By: [Signature] Date: 8/14/14 Time: 1550
 3. Received By: [Signature] Date: 8/14/14 Time: 1835

CHK BY: DISTRIBUTION
 MW
 SUB-OUT

Notes: SHORT HOLDING TIME (Cr+6) NO₂ NO₃ OP SS DO Cl₂ BOD MBAS COT

Are there any tests with holding times? less than or equal to 48 hours? Yes No

*Standard Turnaround = 10

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. 17 06/05/14 Page 1 of 2

Submission #: 1417461

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

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: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/4/14 1835
 Temperature: (A) 5.6 °C / (C) 5.8 °C Analyst Init: ML

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		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										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	#1									
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
SMART KIT										
Summa Canister										

Comments: _____ Date/Time: 1635 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 Sample Numbering Completed By: _____
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 1417461

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

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received: YES NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/4/19 1835

Temperature: (A) 5.6 °C (C) 5.8 °C Analyst Init: ml

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	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										
40ml VOA VIAL	A-B									
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: _____ Date/Time: 8/4/19 IS:WPD\Doc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

A = Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417461-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-6-8/4/14 Sampled By: Blaine Tech of BAT	Receive Date: 08/04/2014 18:35 Sampling Date: 08/04/2014 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-6-8/4/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417461-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-6-8/4/14 Sampled By: Blaine Tech of BAT	Receive Date: 08/04/2014 18:35 Sampling Date: 08/04/2014 07:20 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-6-8/4/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417461-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-3-4 Sampled By: Blaine Tech of BAT	Receive Date: 08/04/2014 18:35 Sampling Date: 08/04/2014 07:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417461-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-3-3 Sampled By: Blaine Tech of BAT	Receive Date: 08/04/2014 18:35 Sampling Date: 08/04/2014 08:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1417461-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: Dup-5-3Q14 Sampled By: Blaine Tech of BAT	Receive Date: 08/04/2014 18:35 Sampling Date: 08/04/2014 08:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-5-3Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1417461-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-3-2 Sampled By: Blaine Tech of BAT	Receive Date: 08/04/2014 18:35 Sampling Date: 08/04/2014 09:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417461-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-5 Sampled By: Blaine Tech of BAT	Receive Date: 08/04/2014 18:35 Sampling Date: 08/04/2014 10:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1417461-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-4 Sampled By: Blaine Tech of BAT	Receive Date: 08/04/2014 18:35 Sampling Date: 08/04/2014 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1417461-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: Dup-6-3Q14 Sampled By: Blaine Tech of BAT	Receive Date: 08/04/2014 18:35 Sampling Date: 08/04/2014 11:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-6-3Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417461-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-3 Sampled By: Blaine Tech of BAT	Receive Date: 08/04/2014 18:35 Sampling Date: 08/04/2014 11:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1417461-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-2 Sampled By: Blaine Tech of BAT	Receive Date: 08/04/2014 18:35 Sampling Date: 08/04/2014 13:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-01	Client Sample Name: JPL-GW, TB-6-8/4/14, 8/4/2014 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		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-01	Client Sample Name: JPL-GW, TB-6-8/4/14, 8/4/2014 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-01	Client Sample Name: JPL-GW, TB-6-8/4/14, 8/4/2014 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.2	%	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	08/05/14	08/05/14 22:02	MGC	MS-V5	1	BXH0273

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417461-01	Client Sample Name: JPL-GW, TB-6-8/4/14, 8/4/2014 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	08/05/14	08/05/14 22:02	MGC	MS-V5	1	BXH0273

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-02	Client Sample Name: JPL-GW, EB-6-8/4/14, 8/4/2014 7:20:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-02	Client Sample Name: JPL-GW, EB-6-8/4/14, 8/4/2014 7:20:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-02	Client Sample Name: JPL-GW, EB-6-8/4/14, 8/4/2014 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.5	%	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	08/05/14	08/05/14 22:24	MGC	MS-V5	1	BXH0273

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417461-02	Client Sample Name: JPL-GW, EB-6-8/4/14, 8/4/2014 7:20:00AM, 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	08/05/14	08/05/14 22:24	MGC	MS-V5	1	BXH0273

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417461-02	Client Sample Name: JPL-GW, EB-6-8/4/14, 8/4/2014 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 08:26	LD1	IC6	1	BXH1910

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417461-02	Client Sample Name: JPL-GW, EB-6-8/4/14, 8/4/2014 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00090	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Chromium	0.93	ug/L	3.0	0.50	EPA-200.8	0.75	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/05/14	08/05/14 00:26	TDC	KONE-1	1	BXH0432
2	EPA-200.8	08/08/14	08/08/14 16:23	SRM	PE-EL2	1	BXH0679

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-03	Client Sample Name: JPL-GW, MW-3-4, 8/4/2014 7:45:00AM, 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		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	0.20	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-03	Client Sample Name: JPL-GW, MW-3-4, 8/4/2014 7:45:00AM, 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	0.21	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-03	Client Sample Name: JPL-GW, MW-3-4, 8/4/2014 7:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	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	08/05/14	08/05/14 22:47	MGC	MS-V5	1	BXH0273

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417461-03	Client Sample Name: JPL-GW, MW-3-4, 8/4/2014 7:45:00AM, 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	08/05/14	08/05/14 22:47	MGC	MS-V5	1	BXH0273

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417461-03	Client Sample Name: JPL-GW, MW-3-4, 8/4/2014 7:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.1	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 08:40	LD1	IC6	1	BXH1910

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417461-03	Client Sample Name: JPL-GW, MW-3-4, 8/4/2014 7:45:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00097	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Chromium	6.9	ug/L	3.0	0.50	EPA-200.8	0.75		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/05/14	08/05/14 00:26	TDC	KONE-1	1	BXH0432
2	EPA-200.8	08/08/14	08/08/14 16:49	SRM	PE-EL2	1	BXH0679

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-04	Client Sample Name: JPL-GW, MW-3-3, 8/4/2014 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	0.22	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	1417461-04	Client Sample Name:	JPL-GW, MW-3-3, 8/4/2014 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	0.19	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	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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	
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	10	9.4	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	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-04	Client Sample Name: JPL-GW, MW-3-3, 8/4/2014 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/05/14	08/05/14 23:10	MGC	MS-V5	1	BXH0273

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417461-04	Client Sample Name: JPL-GW, MW-3-3, 8/4/2014 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	08/05/14	08/05/14 23:10	MGC	MS-V5	1	BXH0273

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417461-04	Client Sample Name: JPL-GW, MW-3-3, 8/4/2014 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.3	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 08:53	LD1	IC6	1	BXH1910

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417461-04	Client Sample Name: JPL-GW, MW-3-3, 8/4/2014 8:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00096	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Chromium	3.0	ug/L	3.0	0.50	EPA-200.8	0.75		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/05/14	08/05/14 00:26	TDC	KONE-1	1	BXH0432
2	EPA-200.8	08/08/14	08/08/14 16:53	SRM	PE-EL2	1	BXH0679

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-05 Client Sample Name: JPL-GW, Dup-5-3Q14, 8/4/2014 8:40:00AM, 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	0.22	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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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-05	Client Sample Name: JPL-GW, Dup-5-3Q14, 8/4/2014 8:40:00AM, 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	0.20	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-05	Client Sample Name: JPL-GW, Dup-5-3Q14, 8/4/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	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	08/05/14	08/05/14 23:32	MGC	MS-V5	1	BXH0273

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417461-05	Client Sample Name: JPL-GW, Dup-5-3Q14, 8/4/2014 8:40:00AM, 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	08/05/14	08/05/14 23:32	MGC	MS-V5	1	BXH0273

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417461-05	Client Sample Name: JPL-GW, Dup-5-3Q14, 8/4/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	0.98	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 09:07	LD1	IC6	1	BXH1910

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417461-05	Client Sample Name: JPL-GW, Dup-5-3Q14, 8/4/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00093	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Chromium	4.5	ug/L	3.0	0.50	EPA-200.8	0.75		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/05/14	08/05/14 00:26	TDC	KONE-1	1	BXH0432
2	EPA-200.8	08/08/14	08/08/14 16:56	SRM	PE-EL2	1	BXH0679

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-06	Client Sample Name: JPL-GW, MW-3-2, 8/4/2014 9:20:00AM, 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	0.36	ug/L	0.50	0.14	EPA-524.2	ND	J	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	0.98	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-06	Client Sample Name: JPL-GW, MW-3-2, 8/4/2014 9:20:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-06	Client Sample Name: JPL-GW, MW-3-2, 8/4/2014 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	105	%	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	08/05/14	08/05/14 23:55	MGC	MS-V5	1	BXH0273

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417461-06	Client Sample Name: JPL-GW, MW-3-2, 8/4/2014 9:20:00AM, 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	08/05/14	08/05/14 23:55	MGC	MS-V5	1	BXH0273

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417461-06	Client Sample Name: JPL-GW, MW-3-2, 8/4/2014 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	31	ug/L	8.0	0.90	EPA-314.0	ND	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/21/14 03:01	LD1	IC6	2	BXH1910

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417461-06	Client Sample Name: JPL-GW, MW-3-2, 8/4/2014 9:20:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0011	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Chromium	0.76	ug/L	3.0	0.50	EPA-200.8	0.75	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/05/14	08/05/14 00:26	TDC	KONE-1	1	BXH0432
2	EPA-200.8	08/08/14	08/08/14 17:00	SRM	PE-EL2	1	BXH0679

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-07	Client Sample Name: JPL-GW, MW-21-5, 8/4/2014 10:20:00AM, 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	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	7.0	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-07	Client Sample Name: JPL-GW, MW-21-5, 8/4/2014 10:20:00AM, 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	0.89	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-07	Client Sample Name: JPL-GW, MW-21-5, 8/4/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/05/14	08/06/14 00:17	MGC	MS-V5	1	BXH0273

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417461-07	Client Sample Name: JPL-GW, MW-21-5, 8/4/2014 10:20:00AM, 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	08/05/14	08/06/14 00:17	MGC	MS-V5	1	BXH0273

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417461-07	Client Sample Name: JPL-GW, MW-21-5, 8/4/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.2	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 10:03	LD1	IC6	1	BXH1910

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417461-07	Client Sample Name: JPL-GW, MW-21-5, 8/4/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0022	mg/L	0.0020	0.00070	EPA-7196	0.00094		1
Total Recoverable Chromium	2.0	ug/L	3.0	0.50	EPA-200.8	0.75	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/05/14	08/05/14 00:32	TDC	KONE-1	1	BXH0432
2	EPA-200.8	08/08/14	08/08/14 17:03	SRM	PE-EL2	1	BXH0679

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-08	Client Sample Name: JPL-GW, MW-21-4, 8/4/2014 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		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	9.5	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	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	0.14	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-08	Client Sample Name: JPL-GW, MW-21-4, 8/4/2014 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	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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-08	Client Sample Name: JPL-GW, MW-21-4, 8/4/2014 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.0	%	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	08/05/14	08/06/14 00:40	MGC	MS-V5	1	BXH0273

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417461-08	Client Sample Name: JPL-GW, MW-21-4, 8/4/2014 11:00:00AM, 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	08/05/14	08/06/14 00:40	MGC	MS-V5	1	BXH0273

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417461-08	Client Sample Name: JPL-GW, MW-21-4, 8/4/2014 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.7	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/19/14	08/19/14 10:16	LD1	IC6	1	BXH1910

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417461-08	Client Sample Name: JPL-GW, MW-21-4, 8/4/2014 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0019	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Chromium	1.9	ug/L	3.0	0.50	EPA-200.8	0.75	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/05/14	08/05/14 00:32	TDC	KONE-1	1	BXH0432
2	EPA-200.8	08/08/14	08/08/14 17:06	SRM	PE-EL2	1	BXH0679

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-09	Client Sample Name: JPL-GW, Dup-6-3Q14, 8/4/2014 11:10:00AM, 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	7.5	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	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	0.10	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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-09 **Client Sample Name:** JPL-GW, Dup-6-3Q14, 8/4/2014 11:10:00AM, 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	0.87	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-09	Client Sample Name: JPL-GW, Dup-6-3Q14, 8/4/2014 11:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/05/14	08/06/14 01:02	MGC	MS-V5	1	BXH0273

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417461-09	Client Sample Name: JPL-GW, Dup-6-3Q14, 8/4/2014 11:10:00AM, 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	08/05/14	08/06/14 01:02	MGC	MS-V5	1	BXH0273

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417461-09	Client Sample Name: JPL-GW, Dup-6-3Q14, 8/4/2014 11:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.9	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/23/14 12:42	OLH	IC6	1	BXH2288

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417461-09	Client Sample Name: JPL-GW, Dup-6-3Q14, 8/4/2014 11:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0020	mg/L	0.0020	0.00070	EPA-7196	0.00094		1
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	EPA-200.8	0.75	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/05/14	08/05/14 00:32	TDC	KONE-1	1	BXH0432
2	EPA-200.8	08/08/14	08/08/14 17:10	SRM	PE-EL2	1	BXH0679

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-10	Client Sample Name: JPL-GW, MW-21-3, 8/4/2014 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	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	0.86	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	0.36	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: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-10	Client Sample Name: JPL-GW, MW-21-3, 8/4/2014 11:45:00AM, 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	0.23	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	2.7	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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-10	Client Sample Name: JPL-GW, MW-21-3, 8/4/2014 11:45:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	94.6	%	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	08/05/14	08/06/14 01:25	MGC	MS-V5	1	BXH0273

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417461-10	Client Sample Name: JPL-GW, MW-21-3, 8/4/2014 11:45:00AM, 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	08/05/14	08/06/14 01:25	MGC	MS-V5	1	BXH0273

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417461-10	Client Sample Name: JPL-GW, MW-21-3, 8/4/2014 11:45:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.8	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/23/14 16:38	LD1	IC6	1	BXH2288

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417461-10	Client Sample Name: JPL-GW, MW-21-3, 8/4/2014 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0014	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	EPA-200.8	0.75	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/05/14	08/05/14 00:32	TDC	KONE-1	1	BXH0432
2	EPA-200.8	08/08/14	08/08/14 17:13	SRM	PE-EL2	1	BXH0679

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-11	Client Sample Name: JPL-GW, MW-21-2, 8/4/2014 1:10:00PM, 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	0.45	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-11	Client Sample Name: JPL-GW, MW-21-2, 8/4/2014 1:10:00PM, 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	0.21	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	1.8	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	0.34	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417461-11	Client Sample Name: JPL-GW, MW-21-2, 8/4/2014 1:10:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.7	%	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	08/05/14	08/05/14 19:47	MGC	MS-V5	1	BXH0273

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417461-11	Client Sample Name: JPL-GW, MW-21-2, 8/4/2014 1:10:00PM, 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	08/05/14	08/05/14 19:47	MGC	MS-V5	1	BXH0273

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417461-11	Client Sample Name: JPL-GW, MW-21-2, 8/4/2014 1:10:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/23/14 13:10	OLH	IC6	1	BXH2288

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417461-11	Client Sample Name: JPL-GW, MW-21-2, 8/4/2014 1:10:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0013	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Chromium	0.91	ug/L	3.0	0.50	EPA-200.8	0.75	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/05/14	08/05/14 00:32	TDC	KONE-1	1	BXH0432
2	EPA-200.8	08/08/14	08/08/14 17:16	SRM	PE-EL2	1	BXH0679

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0273						
Benzene	BXH0273-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXH0273-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXH0273-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXH0273-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXH0273-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXH0273-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXH0273-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXH0273-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXH0273-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXH0273-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXH0273-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXH0273-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXH0273-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXH0273-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXH0273-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXH0273-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXH0273-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXH0273-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXH0273-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXH0273-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXH0273-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXH0273-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXH0273-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXH0273-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXH0273-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXH0273-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXH0273-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXH0273-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXH0273-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXH0273-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXH0273-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXH0273-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXH0273-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXH0273-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0273						
trans-1,3-Dichloropropene	BXH0273-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXH0273-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXH0273-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXH0273-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXH0273-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXH0273-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXH0273-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXH0273-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXH0273-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXH0273-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXH0273-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXH0273-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXH0273-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXH0273-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXH0273-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXH0273-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXH0273-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXH0273-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXH0273-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXH0273-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXH0273-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXH0273-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXH0273-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXH0273-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXH0273-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXH0273-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXH0273-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXH0273-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXH0273-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXH0273-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXH0273-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXH0273-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXH0273-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXH0273-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0273						
Ethyl t-butyl ether	BXH0273-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXH0273-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXH0273-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXH0273-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXH0273-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXH0273-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXH0273-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXH0273-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXH0273-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXH0273-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXH0273-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXH0273-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXH0273-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXH0273-BLK1	110	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXH0273-BLK1	103	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXH0273-BLK1	94.8	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0273										
Benzene	BXH0273-BS1	LCS	24.670	25.000	ug/L	98.7		70 - 130		
Bromodichloromethane	BXH0273-BS1	LCS	25.420	25.000	ug/L	102		70 - 130		
Chlorobenzene	BXH0273-BS1	LCS	24.490	25.000	ug/L	98.0		70 - 130		
Chloroethane	BXH0273-BS1	LCS	28.170	25.000	ug/L	113		70 - 130		
1,4-Dichlorobenzene	BXH0273-BS1	LCS	24.790	25.000	ug/L	99.2		70 - 130		
1,1-Dichloroethane	BXH0273-BS1	LCS	23.860	25.000	ug/L	95.4		70 - 130		
1,1-Dichloroethene	BXH0273-BS1	LCS	24.020	25.000	ug/L	96.1		70 - 130		
Toluene	BXH0273-BS1	LCS	24.660	25.000	ug/L	98.6		70 - 130		
Trichloroethene	BXH0273-BS1	LCS	23.610	25.000	ug/L	94.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXH0273-BS1	LCS	10.670	10.000	ug/L	107		75 - 125		
Toluene-d8 (Surrogate)	BXH0273-BS1	LCS	10.120	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXH0273-BS1	LCS	10.280	10.000	ug/L	103		80 - 120		

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0273		Used client sample: Y - Description: MW-21-2, 08/04/2014 13:10								
Benzene	MS	1417461-11	ND	24.690	25.000	ug/L		98.8		70 - 130
	MSD	1417461-11	ND	26.250	25.000	ug/L	6.1	105	20	70 - 130
Bromodichloromethane	MS	1417461-11	ND	26.180	25.000	ug/L		105		70 - 130
	MSD	1417461-11	ND	28.260	25.000	ug/L	7.6	113	20	70 - 130
Chlorobenzene	MS	1417461-11	ND	25.080	25.000	ug/L		100		70 - 130
	MSD	1417461-11	ND	26.490	25.000	ug/L	5.5	106	20	70 - 130
Chloroethane	MS	1417461-11	ND	28.980	25.000	ug/L		116		70 - 130
	MSD	1417461-11	ND	31.030	25.000	ug/L	6.8	124	20	70 - 130
1,4-Dichlorobenzene	MS	1417461-11	ND	24.950	25.000	ug/L		99.8		70 - 130
	MSD	1417461-11	ND	26.620	25.000	ug/L	6.5	106	20	70 - 130
1,1-Dichloroethane	MS	1417461-11	ND	24.360	25.000	ug/L		97.4		70 - 130
	MSD	1417461-11	ND	26.160	25.000	ug/L	7.1	105	20	70 - 130
1,1-Dichloroethene	MS	1417461-11	ND	23.990	25.000	ug/L		96.0		70 - 130
	MSD	1417461-11	ND	25.470	25.000	ug/L	6.0	102	20	70 - 130
Toluene	MS	1417461-11	ND	24.900	25.000	ug/L		99.6		70 - 130
	MSD	1417461-11	ND	26.630	25.000	ug/L	6.7	107	20	70 - 130
Trichloroethene	MS	1417461-11	0.34000	24.450	25.000	ug/L		96.4		70 - 130
	MSD	1417461-11	0.34000	25.800	25.000	ug/L	5.4	102	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1417461-11	ND	10.690	10.000	ug/L		107		75 - 125
	MSD	1417461-11	ND	10.860	10.000	ug/L	1.6	109		75 - 125
Toluene-d8 (Surrogate)	MS	1417461-11	ND	10.350	10.000	ug/L		104		80 - 120
	MSD	1417461-11	ND	10.230	10.000	ug/L	1.2	102		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1417461-11	ND	10.090	10.000	ug/L		101		80 - 120
	MSD	1417461-11	ND	10.140	10.000	ug/L	0.5	101		80 - 120

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0273						
Chloroacetonitrile	BXH0273-BLK1	0	ug/L			
1-Chlorobutane	BXH0273-BLK1	0	ug/L			
1,1-Dichloropropanone	BXH0273-BLK1	0	ug/L			
Methyl acrylate	BXH0273-BLK1	0	ug/L			
Nitrobenzene	BXH0273-BLK1	0	ug/L			
2-Nitropropane	BXH0273-BLK1	0	ug/L			

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1910						
Perchlorate	BXH1910-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXH2288						
Perchlorate	BXH2288-BLK1	ND	ug/L	4.0	0.45	

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1910											
Perchlorate	BXH1910-BS1	LCS	9.1906	10.000	ug/L	91.9		85	115		
QC Batch ID: BXH2288											
Perchlorate	BXH2288-BS1	LCS	8.6807	10.000	ug/L	86.8		85	115		

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH1910		Used client sample: Y - Description: DUP-4-3Q14, 08/01/2014 11:40								
Perchlorate	DUP	1417349-11	15.119	15.365		ug/L	1.6		15	
	MS	1417349-11	15.119	25.667	10.101	ug/L		104		80 - 120
	MSD	1417349-11	15.119	25.970	10.101	ug/L	1.2	107	15	80 - 120
QC Batch ID: BXH2288		Used client sample: Y - Description: MW-21-2, 08/04/2014 13:10								
Perchlorate	DUP	1417461-11	2.3213	2.0947		ug/L	10.3		15	J
	MS	1417461-11	2.3213	12.061	10.101	ug/L		96.4		80 - 120
	MSD	1417461-11	2.3213	10.994	10.101	ug/L	9.3	85.9	15	80 - 120

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Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0432						
Hexavalent Chromium	BXH0432-BLK1	0.00093700	mg/L	0.0020	0.00070	J
QC Batch ID: BXH0679						
Total Recoverable Chromium	BXH0679-BLK1	0.74600	ug/L	3.0	0.50	J

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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0432										
Hexavalent Chromium	BXH0432-BS1	LCS	0.050198	0.050000	mg/L	100		85 - 115		
QC Batch ID: BXH0679										
Total Recoverable Chromium	BXH0679-BS1	LCS	43.231	40.000	ug/L	108		85 - 115		

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0432		Used client sample: Y - Description: EB-6-8/4/14, 08/04/2014 07:20								
Hexavalent Chromium	DUP	1417461-02	0.00090200	0.00083300		mg/L	8.0		10	J
	MS	1417461-02	0.00090200	0.052868	0.052632	mg/L		98.7	85 - 115	
	MSD	1417461-02	0.00090200	0.051671	0.052632	mg/L	2.3	96.5	10	85 - 115
QC Batch ID: BXH0679		Used client sample: Y - Description: EB-6-8/4/14, 08/04/2014 07:20								
Total Recoverable Chromium	DUP	1417461-02	0.92900	0.94900		ug/L	2.1		20	J
	MS	1417461-02	0.92900	44.120	40.000	ug/L		108	70 - 130	
	MSD	1417461-02	0.92900	42.901	40.000	ug/L	2.8	105	20	70 - 130

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:47
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: 08/26/2014

David Conner

Tidewater Inc.

3761 Attucks Drive

Powell, OH 43065

Client Project: 3rd Qtr.

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 1417651

Invoice ID: B181603

Enclosed are the results of analyses for samples received by the laboratory on 8/5/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form

Report To: **Tidewater, Inc.**
 Client: **Tidewater, Inc. (P.O. #1213-000-02)**
 Attn: **David Conner**
 Street Address: **3781 Attucks Drive**
 City: **Powell** State: **OH** Zip: **43065**
 Phone: **614 792 2897** Fax: **614 792 2897**
 Email Address: **david.conner@tidewater.com**
 Submission #: **1417651**

Project Description: **JPL-GW Monitoring**
 Project Code: **3rd Qtr.**
 Sampler (s): **Blaine Tech**

Analysis Requested:
 VOCs EPA 52.2 Total Cr (200.8)
 Perchlorate (EPA 314.0) Chloride, Nitrate, Sulfate (300)
 Orthophosphate (365.1) Nitrite (353.2)
 Hexavalent Cr (7196)

Matrix: **AG**

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-7-8/5/14	8-5-14	0700	AG
-2	SB-3-8/5/14		0705	
-3	EB-7-8/5/14		0715	
-4	MW-4-3		0745	
-5	DUP-7-30/14		0755	
-6	MW-4-2		0845	
-7	MW-4-1		0920	
-8	MW-12-5		1040	
-9	MW-12-4		1120	
-10	MW-12-3		1200	
-11	MW-12-2		1300	

Notes: DO 0.2 BOD 0.15
 CHK BY: **MMA** DISTRIBUTION: **ON**
 SUBROUT:

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: **8-5-14** Time: **1500**
 2. Relinquished By: **[Signature]** Date: **8/5/14** Time: **1545**
 3. Relinquished By: **[Signature]** Date: **8/5/14** Time: **1850**

Global ID: **1500**

Comments:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)
 90% Level III and 10% Level IV data validation required: Level IV Notated on C of C
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (inform QC)

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. 17 06/05/14 Page 1 Of 2

Submission #: 1417651

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

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: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/3/14 1830
 Temperature: (A) 5.2 °C (C) 5.4 °C Analyst Init: [Signature]

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		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
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	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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: [Signature] Date/Time: 8/3/14 1830 IS:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 of 2

Submission #: 14.17651

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

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: 0.97 Container: Pe Thermometer ID: 207
 Temperature: (A) 5.2 °C / (C) 54 °C

Date/Time: 8/5/14 1050
 Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	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										
40ml VOA VIAL	A, B	()	()	()	()	()	()	()	()	()
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 8-5-14 1950 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
 A = Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417651-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-7-8/5/14 Sampled By: Blaine Tech of BAT	Receive Date: 08/05/2014 18:50 Sampling Date: 08/05/2014 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-7-8/5/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417651-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: SB-3-8/5/14 Sampled By: Blaine Tech of BAT	Receive Date: 08/05/2014 18:50 Sampling Date: 08/05/2014 07:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-3-8/5/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417651-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-7-8/5/14 Sampled By: Blaine Tech of BAT	Receive Date: 08/05/2014 18:50 Sampling Date: 08/05/2014 07:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-7-8/5/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417651-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-3 Sampled By: Blaine Tech of BAT	Receive Date: 08/05/2014 18:50 Sampling Date: 08/05/2014 07:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1417651-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: Dup-7-3Q14 Sampled By: Blaine Tech of BAT	Receive Date: 08/05/2014 18:50 Sampling Date: 08/05/2014 07:55 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-7-3Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1417651-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-2 Sampled By: Blaine Tech of BAT	Receive Date: 08/05/2014 18:50 Sampling Date: 08/05/2014 08:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417651-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-1 Sampled By: Blaine Tech of BAT	Receive Date: 08/05/2014 18:50 Sampling Date: 08/05/2014 09:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1417651-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-5 Sampled By: Blaine Tech of BAT	Receive Date: 08/05/2014 18:50 Sampling Date: 08/05/2014 10:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417651-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-4 Sampled By: Blaine Tech of BAT	Receive Date: 08/05/2014 18:50 Sampling Date: 08/05/2014 11:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417651-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-3 Sampled By: Blaine Tech of BAT	Receive Date: 08/05/2014 18:50 Sampling Date: 08/05/2014 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417651-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-2 Sampled By: Blaine Tech of BAT	Receive Date: 08/05/2014 18:50 Sampling Date: 08/05/2014 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-01	Client Sample Name: JPL-GW, TB-7-8/5/14, 8/5/2014 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		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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-01	Client Sample Name: JPL-GW, TB-7-8/5/14, 8/5/2014 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-01	Client Sample Name: JPL-GW, TB-7-8/5/14, 8/5/2014 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/06/14	08/06/14 10:06	MGC	MS-V5	1	BXH0344

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417651-01	Client Sample Name: JPL-GW, TB-7-8/5/14, 8/5/2014 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	08/06/14	08/06/14 10:06	MGC	MS-V5	1	BXH0344

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-02 Client Sample Name: JPL-GW, SB-3-8/5/14, 8/5/2014 7:05:00AM, 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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-02	Client Sample Name: JPL-GW, SB-3-8/5/14, 8/5/2014 7:05:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-02	Client Sample Name: JPL-GW, SB-3-8/5/14, 8/5/2014 7:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.4	%	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	08/06/14	08/06/14 10:29	MGC	MS-V5	1	BXH0344

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417651-02	Client Sample Name: JPL-GW, SB-3-8/5/14, 8/5/2014 7:05:00AM, 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	08/06/14	08/06/14 10:29	MGC	MS-V5	1	BXH0344

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417651-02	Client Sample Name: JPL-GW, SB-3-8/5/14, 8/5/2014 7:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/24/14 00:59	OLH	IC6	1	BXH2289

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Tidewater Inc.
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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417651-02	Client Sample Name: JPL-GW, SB-3-8/5/14, 8/5/2014 7:05:00AM, 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	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	08/05/14	08/05/14 23:18	TDC	KONE-1	1	BXH0509
2	EPA-200.8	08/11/14	08/12/14 20:50	SRM	PE-EL2	1	BXH0855

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-03	Client Sample Name: JPL-GW, EB-7-8/5/14, 8/5/2014 7:15:00AM, 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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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-03	Client Sample Name: JPL-GW, EB-7-8/5/14, 8/5/2014 7:15:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-03	Client Sample Name: JPL-GW, EB-7-8/5/14, 8/5/2014 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.4	%	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	08/06/14	08/06/14 10:51	MGC	MS-V5	1	BXH0344

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417651-03	Client Sample Name: JPL-GW, EB-7-8/5/14, 8/5/2014 7:15:00AM, 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	08/06/14	08/06/14 10:51	MGC	MS-V5	1	BXH0344

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417651-03	Client Sample Name: JPL-GW, EB-7-8/5/14, 8/5/2014 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/24/14 01:13	OLH	IC6	1	BXH2289

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417651-03	Client Sample Name: JPL-GW, EB-7-8/5/14, 8/5/2014 7:15:00AM, 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	1.4	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	08/05/14	08/05/14 23:18	TDC	KONE-1	1	BXH0509
2	EPA-200.8	08/11/14	08/12/14 20:53	SRM	PE-EL2	1	BXH0855

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-04	Client Sample Name: JPL-GW, MW-4-3, 8/5/2014 7:45:00AM, 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	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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-04	Client Sample Name: JPL-GW, MW-4-3, 8/5/2014 7:45:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-04	Client Sample Name: JPL-GW, MW-4-3, 8/5/2014 7:45:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.7	%	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	08/06/14	08/06/14 11:14	MGC	MS-V5	1	BXH0344

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417651-04	Client Sample Name: JPL-GW, MW-4-3, 8/5/2014 7:45:00AM, 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	08/06/14	08/06/14 11:14	MGC	MS-V5	1	BXH0344

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417651-04	Client Sample Name: JPL-GW, MW-4-3, 8/5/2014 7:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.5	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/24/14 01:26	OLH	IC6	1	BXH2289

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417651-04	Client Sample Name: JPL-GW, MW-4-3, 8/5/2014 7:45:00AM, 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	2.5	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	08/05/14	08/05/14 23:18	TDC	KONE-1	1	BXH0509
2	EPA-200.8	08/11/14	08/12/14 20:57	SRM	PE-EL2	1	BXH0855

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-05	Client Sample Name: JPL-GW, Dup-7-3Q14, 8/5/2014 7:55:00AM, 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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-05	Client Sample Name: JPL-GW, Dup-7-3Q14, 8/5/2014 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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-05	Client Sample Name: JPL-GW, Dup-7-3Q14, 8/5/2014 7:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.5	%	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	08/06/14	08/06/14 11:37	MGC	MS-V5	1	BXH0344

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417651-05	Client Sample Name: JPL-GW, Dup-7-3Q14, 8/5/2014 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	08/06/14	08/06/14 11:37	MGC	MS-V5	1	BXH0344

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417651-05	Client Sample Name: JPL-GW, Dup-7-3Q14, 8/5/2014 7:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.7	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/24/14 16:31	OLH	IC6	1	BXH2289

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417651-05	Client Sample Name: JPL-GW, Dup-7-3Q14, 8/5/2014 7:55:00AM, 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	3.1	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	08/05/14	08/05/14	23:18	TDC	KONE-1	1	BXH0509
2	EPA-200.8	08/11/14	08/12/14	21:00	SRM	PE-EL2	1	BXH0855

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-06	Client Sample Name: JPL-GW, MW-4-2, 8/5/2014 8:45:00AM, 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	0.25	ug/L	0.50	0.14	EPA-524.2	ND	J	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	0.86	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	0.26	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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-06	Client Sample Name: JPL-GW, MW-4-2, 8/5/2014 8:45:00AM, 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	1.1	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-06	Client Sample Name: JPL-GW, MW-4-2, 8/5/2014 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.0	%	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	08/06/14	08/06/14 11:59	MGC	MS-V5	1	BXH0344

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417651-06	Client Sample Name: JPL-GW, MW-4-2, 8/5/2014 8:45:00AM, 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	08/06/14	08/06/14 11:59	MGC	MS-V5	1	BXH0344

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417651-06	Client Sample Name: JPL-GW, MW-4-2, 8/5/2014 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	28	ug/L	8.0	0.90	EPA-314.0	ND	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/24/14 16:45	OLH	IC6	2	BXH2289

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417651-06	Client Sample Name: JPL-GW, MW-4-2, 8/5/2014 8:45:00AM, 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	2.8	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	08/05/14	08/05/14 23:24	TDC	KONE-1	1	BXH0509
2	EPA-200.8	08/11/14	08/12/14 21:03	SRM	PE-EL2	1	BXH0855

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-07	Client Sample Name: JPL-GW, MW-4-1, 8/5/2014 9:20:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-07	Client Sample Name: JPL-GW, MW-4-1, 8/5/2014 9:20:00AM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-07	Client Sample Name: JPL-GW, MW-4-1, 8/5/2014 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.4	%	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	08/06/14	08/06/14 07:51	MGC	MS-V5	1	BXH0344

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417651-07	Client Sample Name: JPL-GW, MW-4-1, 8/5/2014 9:20:00AM, 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	08/06/14	08/06/14 07:51	MGC	MS-V5	1	BXH0344

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417651-07	Client Sample Name: JPL-GW, MW-4-1, 8/5/2014 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/23/14 23:22	OLH	IC6	1	BXH2289

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417651-07	Client Sample Name: JPL-GW, MW-4-1, 8/5/2014 9:20:00AM, 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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	08/05/14	08/05/14	23:18	TDC	KONE-1	1	BXH0509
2	EPA-200.8	08/11/14	08/12/14	20:23	SRM	PE-EL2	1	BXH0855

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-08	Client Sample Name: JPL-GW, MW-12-5, 8/5/2014 10:40:00AM, 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	0.43	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	0.36	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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-08	Client Sample Name: JPL-GW, MW-12-5, 8/5/2014 10:40:00AM, 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	0.090	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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-08	Client Sample Name: JPL-GW, MW-12-5, 8/5/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.1	%	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	08/06/14	08/06/14 12:22	MGC	MS-V5	1	BXH0344

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417651-08	Client Sample Name: JPL-GW, MW-12-5, 8/5/2014 10:40:00AM, 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	08/06/14	08/06/14 12:22	MGC	MS-V5	1	BXH0344

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417651-08	Client Sample Name: JPL-GW, MW-12-5, 8/5/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.0	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/24/14 17:13	OLH	IC6	1	BXH2289

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Tidewater Inc.
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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-09	Client Sample Name: JPL-GW, MW-12-4, 8/5/2014 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	0.69	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	0.70	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-09	Client Sample Name: JPL-GW, MW-12-4, 8/5/2014 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	0.26	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-09	Client Sample Name: JPL-GW, MW-12-4, 8/5/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.6	%	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	08/06/14	08/06/14 12:44	MGC	MS-V5	1	BXH0344

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417651-09	Client Sample Name: JPL-GW, MW-12-4, 8/5/2014 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	08/06/14	08/06/14 12:44	MGC	MS-V5	1	BXH0344

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417651-09	Client Sample Name: JPL-GW, MW-12-4, 8/5/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.9	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/24/14 02:49	OLH	IC6	1	BXH2289

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-10	Client Sample Name: JPL-GW, MW-12-3, 8/5/2014 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		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	0.55	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	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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-10	Client Sample Name: JPL-GW, MW-12-3, 8/5/2014 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-10	Client Sample Name: JPL-GW, MW-12-3, 8/5/2014 12:00:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.7	%	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	08/06/14	08/06/14 13:07	MGC	MS-V5	1	BXH0344

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417651-10	Client Sample Name: JPL-GW, MW-12-3, 8/5/2014 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	08/06/14	08/06/14 13:07	MGC	MS-V5	1	BXH0344

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417651-10	Client Sample Name: JPL-GW, MW-12-3, 8/5/2014 12:00:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.3	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/23/14	08/24/14 03:03	OLH	IC6	1	BXH2289

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417651-10	Client Sample Name: JPL-GW, MW-12-3, 8/5/2014 12:00:00PM, 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	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	08/05/14	08/05/14 23:24	TDC	KONE-1	1	BXH0509
2	EPA-200.8	08/11/14	08/12/14 21:07	SRM	PE-EL2	1	BXH0855

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-11	Client Sample Name: JPL-GW, MW-12-2, 8/5/2014 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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-11	Client Sample Name: JPL-GW, MW-12-2, 8/5/2014 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	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417651-11	Client Sample Name: JPL-GW, MW-12-2, 8/5/2014 1:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.9	%	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	08/06/14	08/06/14 13:29	MGC	MS-V5	1	BXH0344

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417651-11	Client Sample Name: JPL-GW, MW-12-2, 8/5/2014 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	08/06/14	08/06/14 13:29	MGC	MS-V5	1	BXH0344

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417651-11	Client Sample Name: JPL-GW, MW-12-2, 8/5/2014 1:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/24/14	08/24/14 21:04	LD1	IC6	1	BXH2290

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417651-11	Client Sample Name: JPL-GW, MW-12-2, 8/5/2014 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	2.6	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	08/05/14	08/05/14	23:24	TDC	KONE-1	1	BXH0509
2	EPA-200.8	08/11/14	08/12/14	21:10	SRM	PE-EL2	1	BXH0855

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0344						
Benzene	BXH0344-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXH0344-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXH0344-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXH0344-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXH0344-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXH0344-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXH0344-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXH0344-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXH0344-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXH0344-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXH0344-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXH0344-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXH0344-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXH0344-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXH0344-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXH0344-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXH0344-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXH0344-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXH0344-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXH0344-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXH0344-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXH0344-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXH0344-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXH0344-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXH0344-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXH0344-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXH0344-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXH0344-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXH0344-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXH0344-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXH0344-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXH0344-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXH0344-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXH0344-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0344						
trans-1,3-Dichloropropene	BXH0344-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXH0344-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXH0344-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXH0344-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXH0344-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXH0344-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXH0344-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXH0344-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXH0344-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXH0344-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXH0344-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXH0344-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXH0344-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXH0344-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXH0344-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXH0344-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXH0344-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXH0344-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXH0344-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXH0344-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXH0344-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXH0344-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXH0344-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXH0344-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXH0344-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXH0344-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXH0344-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXH0344-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXH0344-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXH0344-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXH0344-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXH0344-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXH0344-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXH0344-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0344						
Ethyl t-butyl ether	BXH0344-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXH0344-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXH0344-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXH0344-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXH0344-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXH0344-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXH0344-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXH0344-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXH0344-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXH0344-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXH0344-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXH0344-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXH0344-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXH0344-BLK1	108	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXH0344-BLK1	103	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXH0344-BLK1	94.3	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0344										
Benzene	BXH0344-BS1	LCS	24.480	25.000	ug/L	97.9		70 - 130		
Bromodichloromethane	BXH0344-BS1	LCS	25.240	25.000	ug/L	101		70 - 130		
Chlorobenzene	BXH0344-BS1	LCS	25.050	25.000	ug/L	100		70 - 130		
Chloroethane	BXH0344-BS1	LCS	28.450	25.000	ug/L	114		70 - 130		
1,4-Dichlorobenzene	BXH0344-BS1	LCS	24.790	25.000	ug/L	99.2		70 - 130		
1,1-Dichloroethane	BXH0344-BS1	LCS	24.060	25.000	ug/L	96.2		70 - 130		
1,1-Dichloroethene	BXH0344-BS1	LCS	24.060	25.000	ug/L	96.2		70 - 130		
Toluene	BXH0344-BS1	LCS	25.150	25.000	ug/L	101		70 - 130		
Trichloroethene	BXH0344-BS1	LCS	23.930	25.000	ug/L	95.7		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXH0344-BS1	LCS	10.490	10.000	ug/L	105		75 - 125		
Toluene-d8 (Surrogate)	BXH0344-BS1	LCS	10.230	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXH0344-BS1	LCS	10.380	10.000	ug/L	104		80 - 120		

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0344		Used client sample: Y - Description: MW-4-1, 08/05/2014 09:20								
Benzene	MS	1417651-07	ND	25.080	25.000	ug/L		100		70 - 130
	MSD	1417651-07	ND	24.780	25.000	ug/L	1.2	99.1	20	70 - 130
Bromodichloromethane	MS	1417651-07	ND	25.820	25.000	ug/L		103		70 - 130
	MSD	1417651-07	ND	25.940	25.000	ug/L	0.5	104	20	70 - 130
Chlorobenzene	MS	1417651-07	ND	25.200	25.000	ug/L		101		70 - 130
	MSD	1417651-07	ND	24.910	25.000	ug/L	1.2	99.6	20	70 - 130
Chloroethane	MS	1417651-07	ND	28.850	25.000	ug/L		115		70 - 130
	MSD	1417651-07	ND	29.370	25.000	ug/L	1.8	117	20	70 - 130
1,4-Dichlorobenzene	MS	1417651-07	ND	25.480	25.000	ug/L		102		70 - 130
	MSD	1417651-07	ND	25.950	25.000	ug/L	1.8	104	20	70 - 130
1,1-Dichloroethane	MS	1417651-07	ND	24.860	25.000	ug/L		99.4		70 - 130
	MSD	1417651-07	ND	24.580	25.000	ug/L	1.1	98.3	20	70 - 130
1,1-Dichloroethene	MS	1417651-07	ND	24.740	25.000	ug/L		99.0		70 - 130
	MSD	1417651-07	ND	24.730	25.000	ug/L	0.0	98.9	20	70 - 130
Toluene	MS	1417651-07	ND	25.190	25.000	ug/L		101		70 - 130
	MSD	1417651-07	ND	25.190	25.000	ug/L	0	101	20	70 - 130
Trichloroethene	MS	1417651-07	ND	24.190	25.000	ug/L		96.8		70 - 130
	MSD	1417651-07	ND	24.220	25.000	ug/L	0.1	96.9	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1417651-07	ND	10.530	10.000	ug/L		105		75 - 125
	MSD	1417651-07	ND	10.320	10.000	ug/L	2.0	103		75 - 125
Toluene-d8 (Surrogate)	MS	1417651-07	ND	10.030	10.000	ug/L		100		80 - 120
	MSD	1417651-07	ND	10.130	10.000	ug/L	1.0	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1417651-07	ND	10.120	10.000	ug/L		101		80 - 120
	MSD	1417651-07	ND	10.340	10.000	ug/L	2.2	103		80 - 120

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0344						
Chloroacetonitrile	BXH0344-BLK1	0	ug/L			
1-Chlorobutane	BXH0344-BLK1	0	ug/L			
1,1-Dichloropropanone	BXH0344-BLK1	0	ug/L			
Methyl acrylate	BXH0344-BLK1	0	ug/L			
Nitrobenzene	BXH0344-BLK1	0	ug/L			
2-Nitropropane	BXH0344-BLK1	0	ug/L			

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH2289						
Perchlorate	BXH2289-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXH2290						
Perchlorate	BXH2290-BLK1	ND	ug/L	4.0	0.45	

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH2289										
Perchlorate	BXH2289-BS1	LCS	9.2772	10.000	ug/L	92.8		85	115	
QC Batch ID: BXH2290										
Perchlorate	BXH2290-BS1	LCS	8.6551	10.000	ug/L	86.6		85	115	

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH2289		Used client sample: Y - Description: MW-4-1, 08/05/2014 09:20								
Perchlorate	DUP	1417651-07	ND	ND		ug/L				15
	MS	1417651-07	ND	10.082	10.101	ug/L		99.8		80 - 120
	MSD	1417651-07	ND	9.3931	10.101	ug/L	7.1	93.0	15	80 - 120
QC Batch ID: BXH2290		Used client sample: N								
Perchlorate	DUP	1417838-01	ND	ND		ug/L				15
	MS	1417838-01	ND	8.9737	10.101	ug/L		88.8		80 - 120
	MSD	1417838-01	ND	8.2106	10.101	ug/L	8.9	81.3	15	80 - 120

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Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0509						
Hexavalent Chromium	BXH0509-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXH0855						
Total Recoverable Chromium	BXH0855-BLK1	ND	ug/L	3.0	0.50	

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0509										
Hexavalent Chromium	BXH0509-BS1	LCS	0.049656	0.050000	mg/L	99.3		85	115	
QC Batch ID: BXH0855										
Total Recoverable Chromium	BXH0855-BS1	LCS	42.877	40.000	ug/L	107		85	115	

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Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0509		Used client sample: Y - Description: MW-4-1, 08/05/2014 09:20								
Hexavalent Chromium	DUP	1417651-07	ND	ND		mg/L			10	
	MS	1417651-07	ND	0.049366	0.052632	mg/L		93.8		85 - 115
	MSD	1417651-07	ND	0.048335	0.052632	mg/L	2.1	91.8	10	85 - 115
QC Batch ID: BXH0855		Used client sample: Y - Description: MW-4-1, 08/05/2014 09:20								
Total Recoverable Chromium	DUP	1417651-07	ND	ND		ug/L			20	
	MS	1417651-07	ND	42.006	40.000	ug/L		105		70 - 130
	MSD	1417651-07	ND	40.527	40.000	ug/L	3.6	101	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/26/2014 11:52
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: 08/28/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 3rd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1417863
Invoice ID: B181896

Enclosed are the results of analyses for samples received by the laboratory on 8/6/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form



Report To: Tidewater, Inc.
 Client: Tidewater, Inc. (P.O. #1213-000-02)
 Attn: David Comer
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 614 792 - 2897 Fax: 614 792 - 2897
 Email Address: david.comer@tiden2o.net
 Submission #: 14-17863

Project Description: JPL-GW Monitoring
 Project Code: 3rd Ctr.
 Sampler (s): Blaine Tech

Analysis Requested:
 Hexavalent Cr (7196)
 Nitrite (353.2)
 Orthophosphate (365.1)
 Chloride, Nitrate, Sulfate (300)
 Perchlorate (EPA 314.0)
 Total Cr (200.8)
 VOCs EPA 524.2

Sample #	Sample Description	Date	Time	Matrix*
1	TB-B-8/6/14	8-6-14	0700	AQ
2	MW-6	8-6-14	0814	
3	MW-10	8-6-14	0947	
4	MW-5	8-6-14	1133	
5	MW-16	8-6-14	1300	

Notes: MS/MSD, MS/MSD

CHK BY: [Signature] DISTRIBUTION: [Signature]
 SUB-OUT: [Signature]

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: [Signature]

Cost Center: [Blank]
 Global ID: [Blank]

Comments: PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD) 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

1. Relinquished By: [Signature] Date: 8-6-14 Time: 1500
 2. Relinquished By: [Signature] Date: 8/6/14 Time: 1515
 3. Relinquished By: [Signature] Date: 8-6-14 Time: 1850

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. 17 06/05/14 Page 2 Of 2

Submission #: 1417863

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

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO

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: 0.97 Container: PE Thermometer ID: 207 Date/Time: 8-6-14 1850
 Temperature: (A) 0.4 °C (C) 0.6 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B	B	B					
PT PE UNPRESERVED					C					
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	D					
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	A6	A3	A6					
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: M Date/Time: 8-6-14 2143 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417863-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-8-8/6/14 Sampled By: Blaine Tech of BAT	Receive Date: 08/06/2014 18:50 Sampling Date: 08/06/2014 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-8-8/6/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1417863-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-6 Sampled By: Blaine Tech of BAT	Receive Date: 08/06/2014 18:50 Sampling Date: 08/06/2014 08:14 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1417863-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-10 Sampled By: Blaine Tech of BAT	Receive Date: 08/06/2014 18:50 Sampling Date: 08/06/2014 09:47 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-10 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1417863-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-5 Sampled By: Blaine Tech of BAT	Receive Date: 08/06/2014 18:50 Sampling Date: 08/06/2014 11:33 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1417863-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-16 Sampled By: Blaine Tech of BAT	Receive Date: 08/06/2014 18:50 Sampling Date: 08/06/2014 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-16 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-01	Client Sample Name: JPL-GW, TB-8-8/6/14, 8/6/2014 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		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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-01	Client Sample Name: JPL-GW, TB-8-8/6/14, 8/6/2014 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-01	Client Sample Name: JPL-GW, TB-8-8/6/14, 8/6/2014 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	102	%	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	08/07/14	08/07/14 14:25	MGC	MS-V5	1	BXH0461

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417863-01	Client Sample Name: JPL-GW, TB-8-8/6/14, 8/6/2014 7:00:00AM, 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	08/07/14	08/07/14 14:25	MGC	MS-V5	1	BXH0461

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-02	Client Sample Name: JPL-GW, MW-6, 8/6/2014 8:14:00AM, 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	0.73	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	0.22	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	0.23	ug/L	0.50	0.18	EPA-524.2	ND	J	1
cis-1,2-Dichloroethene	0.090	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	0.20	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-02	Client Sample Name: JPL-GW, MW-6, 8/6/2014 8:14:00AM, 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	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	3.9	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-02	Client Sample Name: JPL-GW, MW-6, 8/6/2014 8:14:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	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	08/07/14	08/07/14 14:47	MGC	MS-V5	1	BXH0461

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Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417863-02	Client Sample Name: JPL-GW, MW-6, 8/6/2014 8:14:00AM, 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	08/07/14	08/07/14 14:47	MGC	MS-V5	1	BXH0461

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Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417863-02	Client Sample Name: JPL-GW, MW-6, 8/6/2014 8:14:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.8	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/25/14	08/25/14 22:12	OLH	IC6	1	BXH2724

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Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417863-02	Client Sample Name: JPL-GW, MW-6, 8/6/2014 8:14:00AM, 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	26	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	08/07/14	08/07/14 00:46	OLH	KONE-1	1	BXH0523
2	EPA-200.8	08/14/14	08/14/14 15:36	SRM	PE-EL2	1	BXH1268

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Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-03	Client Sample Name: JPL-GW, MW-10, 8/6/2014 9:47:00AM, 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	0.75	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	0.22	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	0.25	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	0.45	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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-03	Client Sample Name: JPL-GW, MW-10, 8/6/2014 9:47:00AM, 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	0.83	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	8.1	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-03	Client Sample Name: JPL-GW, MW-10, 8/6/2014 9:47:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	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	08/07/14	08/07/14 12:09	MGC	MS-V5	1	BXH0461

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Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417863-03	Client Sample Name: JPL-GW, MW-10, 8/6/2014 9:47:00AM, 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	08/07/14	08/07/14 12:09	MGC	MS-V5	1	BXH0461

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Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417863-03	Client Sample Name: JPL-GW, MW-10, 8/6/2014 9:47:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.7	ug/L	4.0	0.45	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/25/14	08/25/14 19:53	OLH	IC6	1	BXH2724

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Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417863-03	Client Sample Name: JPL-GW, MW-10, 8/6/2014 9:47:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0010	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	5.7	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	08/07/14	08/07/14 00:46	OLH	KONE-1	1	BXH0523
2	EPA-200.8	08/14/14	08/14/14 14:55	SRM	PE-EL2	1	BXH1268

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-04	Client Sample Name: JPL-GW, MW-5, 8/6/2014 11:33:00AM, 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	0.81	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-04	Client Sample Name: JPL-GW, MW-5, 8/6/2014 11:33:00AM, 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	0.47	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	2.7	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-04	Client Sample Name: JPL-GW, MW-5, 8/6/2014 11:33:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	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	08/07/14	08/07/14 15:10	MGC	MS-V5	1	BXH0461

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Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417863-04	Client Sample Name: JPL-GW, MW-5, 8/6/2014 11:33:00AM, 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	08/07/14	08/07/14 15:10	MGC	MS-V5	1	BXH0461

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417863-04	Client Sample Name: JPL-GW, MW-5, 8/6/2014 11:33:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	9.4	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/25/14	08/25/14 22:25	OLH	IC6	1	BXH2724

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417863-04	Client Sample Name: JPL-GW, MW-5, 8/6/2014 11:33:00AM, 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	7.8	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	08/07/14	08/07/14 00:46	OLH	KONE-1	1	BXH0523
2	EPA-200.8	08/14/14	08/14/14 15:39	SRM	PE-EL2	1	BXH1268

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-05	Client Sample Name: JPL-GW, MW-16, 8/6/2014 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		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	0.17	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		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-05	Client Sample Name: JPL-GW, MW-16, 8/6/2014 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1417863-05	Client Sample Name: JPL-GW, MW-16, 8/6/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.4	%	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	08/07/14	08/07/14 17:03	MGC	MS-V5	1	BXH0462

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1417863-05	Client Sample Name: JPL-GW, MW-16, 8/6/2014 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	08/07/14	08/07/14 17:03	MGC	MS-V5	1	BXH0462

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1417863-05	Client Sample Name: JPL-GW, MW-16, 8/6/2014 1:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	77	mg/L	0.50	0.067	EPA-300.0	ND		1
Nitrate as N	1.2	mg/L	0.10	0.025	EPA-300.0	ND		1
Sulfate	42	mg/L	1.0	0.18	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		3
ortho-Phosphate as P	0.25	mg/L	0.020	0.0040	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/07/14	08/07/14 15:52	OLH	IC2	1	BXH0563
2	EPA-353.2	08/07/14	08/07/14 10:08	TDC	KONE-1	1	BXH0500
3	EPA-314.0	08/25/14	08/25/14 23:07	OLH	IC6	1	BXH2725
4	EPA-365.1	08/07/14	08/07/14 09:31	TDC	KONE-1	1	BXH0521

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1417863-05	Client Sample Name: JPL-GW, MW-16, 8/6/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0025	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2900	ug/L	15	2.5	EPA-200.8	ND	A01	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/07/14	08/07/14 00:52	OLH	KONE-1	1	BXH0569
2	EPA-200.8	08/14/14	08/14/14 17:06	SRM	PE-EL2	5	BXH1268

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0461						
Benzene	BXH0461-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXH0461-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXH0461-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXH0461-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXH0461-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXH0461-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXH0461-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXH0461-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXH0461-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXH0461-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXH0461-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXH0461-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXH0461-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXH0461-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXH0461-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXH0461-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXH0461-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXH0461-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXH0461-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXH0461-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXH0461-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXH0461-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXH0461-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXH0461-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXH0461-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXH0461-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXH0461-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXH0461-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXH0461-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXH0461-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXH0461-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXH0461-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXH0461-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXH0461-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0461						
trans-1,3-Dichloropropene	BXH0461-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXH0461-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXH0461-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXH0461-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXH0461-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXH0461-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXH0461-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXH0461-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXH0461-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXH0461-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXH0461-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2-Tetrachloroethane	BXH0461-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXH0461-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXH0461-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXH0461-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXH0461-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXH0461-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXH0461-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXH0461-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXH0461-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXH0461-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXH0461-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXH0461-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXH0461-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXH0461-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXH0461-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXH0461-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXH0461-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXH0461-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXH0461-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXH0461-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXH0461-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXH0461-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXH0461-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0461

Ethyl t-butyl ether	BXH0461-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXH0461-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXH0461-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXH0461-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXH0461-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXH0461-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXH0461-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXH0461-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXH0461-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXH0461-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXH0461-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXH0461-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXH0461-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXH0461-BLK1	108	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXH0461-BLK1	105	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXH0461-BLK1	106	%	80 - 120 (LCL - UCL)		

QC Batch ID: BXH0462

Benzene	BXH0462-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXH0462-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXH0462-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXH0462-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXH0462-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXH0462-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXH0462-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXH0462-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXH0462-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXH0462-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXH0462-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXH0462-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXH0462-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXH0462-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXH0462-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXH0462-BLK1	ND	ug/L	0.50	0.15	

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Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0462						
Dibromochloromethane	BXH0462-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXH0462-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXH0462-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXH0462-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXH0462-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXH0462-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXH0462-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXH0462-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXH0462-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXH0462-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXH0462-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXH0462-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXH0462-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXH0462-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXH0462-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXH0462-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXH0462-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXH0462-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXH0462-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXH0462-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXH0462-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXH0462-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXH0462-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXH0462-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXH0462-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXH0462-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXH0462-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXH0462-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXH0462-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXH0462-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXH0462-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXH0462-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXH0462-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXH0462-BLK1	ND	ug/L	0.50	0.19	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0462						
1,1,1-Trichloroethane	BXH0462-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXH0462-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXH0462-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXH0462-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXH0462-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXH0462-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXH0462-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXH0462-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXH0462-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXH0462-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXH0462-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXH0462-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXH0462-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXH0462-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXH0462-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXH0462-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXH0462-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXH0462-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXH0462-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXH0462-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXH0462-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXH0462-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXH0462-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXH0462-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXH0462-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXH0462-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXH0462-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXH0462-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXH0462-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXH0462-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXH0462-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXH0462-BLK1	108	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXH0462-BLK1	103	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXH0462-BLK1	97.6	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0461										
Benzene	BXH0461-BS1	LCS	24.070	25.000	ug/L	96.3		70 - 130		
Bromodichloromethane	BXH0461-BS1	LCS	24.450	25.000	ug/L	97.8		70 - 130		
Chlorobenzene	BXH0461-BS1	LCS	23.710	25.000	ug/L	94.8		70 - 130		
Chloroethane	BXH0461-BS1	LCS	27.580	25.000	ug/L	110		70 - 130		
1,4-Dichlorobenzene	BXH0461-BS1	LCS	28.250	25.000	ug/L	113		70 - 130		
1,1-Dichloroethane	BXH0461-BS1	LCS	23.590	25.000	ug/L	94.4		70 - 130		
1,1-Dichloroethene	BXH0461-BS1	LCS	23.610	25.000	ug/L	94.4		70 - 130		
Toluene	BXH0461-BS1	LCS	24.140	25.000	ug/L	96.6		70 - 130		
Trichloroethene	BXH0461-BS1	LCS	23.370	25.000	ug/L	93.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXH0461-BS1	LCS	10.700	10.000	ug/L	107		75 - 125		
Toluene-d8 (Surrogate)	BXH0461-BS1	LCS	10.270	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXH0461-BS1	LCS	10.620	10.000	ug/L	106		80 - 120		

QC Batch ID: BXH0462										
Benzene	BXH0462-BS1	LCS	24.650	25.000	ug/L	98.6		70 - 130		
Bromodichloromethane	BXH0462-BS1	LCS	25.360	25.000	ug/L	101		70 - 130		
Chlorobenzene	BXH0462-BS1	LCS	24.100	25.000	ug/L	96.4		70 - 130		
Chloroethane	BXH0462-BS1	LCS	28.760	25.000	ug/L	115		70 - 130		
1,4-Dichlorobenzene	BXH0462-BS1	LCS	27.390	25.000	ug/L	110		70 - 130		
1,1-Dichloroethane	BXH0462-BS1	LCS	24.250	25.000	ug/L	97.0		70 - 130		
1,1-Dichloroethene	BXH0462-BS1	LCS	24.270	25.000	ug/L	97.1		70 - 130		
Toluene	BXH0462-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
Trichloroethene	BXH0462-BS1	LCS	24.720	25.000	ug/L	98.9		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXH0462-BS1	LCS	10.990	10.000	ug/L	110		75 - 125		
Toluene-d8 (Surrogate)	BXH0462-BS1	LCS	10.450	10.000	ug/L	104		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXH0462-BS1	LCS	10.630	10.000	ug/L	106		80 - 120		

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Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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	Control Limits			Lab Quals
							RPD	Percent Recovery	Percent Recovery	
QC Batch ID: BXH0461		Used client sample: Y - Description: MW-10, 08/06/2014 09:47								
Benzene	MS	1417863-03	ND	25.290	25.000	ug/L		101		70 - 130
	MSD	1417863-03	ND	24.560	25.000	ug/L	2.9	98.2	20	70 - 130
Bromodichloromethane	MS	1417863-03	ND	25.900	25.000	ug/L		104		70 - 130
	MSD	1417863-03	ND	25.560	25.000	ug/L	1.3	102	20	70 - 130
Chlorobenzene	MS	1417863-03	ND	25.280	25.000	ug/L		101		70 - 130
	MSD	1417863-03	ND	25.430	25.000	ug/L	0.6	102	20	70 - 130
Chloroethane	MS	1417863-03	ND	28.760	25.000	ug/L		115		70 - 130
	MSD	1417863-03	ND	28.270	25.000	ug/L	1.7	113	20	70 - 130
1,4-Dichlorobenzene	MS	1417863-03	ND	29.500	25.000	ug/L		118		70 - 130
	MSD	1417863-03	ND	29.990	25.000	ug/L	1.6	120	20	70 - 130
1,1-Dichloroethane	MS	1417863-03	0.22000	24.850	25.000	ug/L		98.5		70 - 130
	MSD	1417863-03	0.22000	24.110	25.000	ug/L	3.0	95.6	20	70 - 130
1,1-Dichloroethene	MS	1417863-03	ND	25.000	25.000	ug/L		100		70 - 130
	MSD	1417863-03	ND	23.850	25.000	ug/L	4.7	95.4	20	70 - 130
Toluene	MS	1417863-03	ND	25.320	25.000	ug/L		101		70 - 130
	MSD	1417863-03	ND	25.060	25.000	ug/L	1.0	100	20	70 - 130
Trichloroethene	MS	1417863-03	8.1400	31.180	25.000	ug/L		92.2		70 - 130
	MSD	1417863-03	8.1400	30.830	25.000	ug/L	1.1	90.8	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1417863-03	ND	10.490	10.000	ug/L		105		75 - 125
	MSD	1417863-03	ND	10.280	10.000	ug/L	2.0	103		75 - 125
Toluene-d8 (Surrogate)	MS	1417863-03	ND	10.090	10.000	ug/L		101		80 - 120
	MSD	1417863-03	ND	10.090	10.000	ug/L	0	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1417863-03	ND	10.530	10.000	ug/L		105		80 - 120
	MSD	1417863-03	ND	10.630	10.000	ug/L	0.9	106		80 - 120
QC Batch ID: BXH0462		Used client sample: Y - Description: MW-16, 08/06/2014 13:00								
Benzene	MS	1417863-05	ND	24.010	25.000	ug/L		96.0		70 - 130
	MSD	1417863-05	ND	24.530	25.000	ug/L	2.1	98.1	20	70 - 130
Bromodichloromethane	MS	1417863-05	ND	25.380	25.000	ug/L		102		70 - 130
	MSD	1417863-05	ND	25.970	25.000	ug/L	2.3	104	20	70 - 130
Chlorobenzene	MS	1417863-05	ND	24.040	25.000	ug/L		96.2		70 - 130
	MSD	1417863-05	ND	24.500	25.000	ug/L	1.9	98.0	20	70 - 130
Chloroethane	MS	1417863-05	ND	27.560	25.000	ug/L		110		70 - 130
	MSD	1417863-05	ND	28.400	25.000	ug/L	3.0	114	20	70 - 130
1,4-Dichlorobenzene	MS	1417863-05	ND	27.500	25.000	ug/L		110		70 - 130
	MSD	1417863-05	ND	28.070	25.000	ug/L	2.1	112	20	70 - 130
1,1-Dichloroethane	MS	1417863-05	ND	23.860	25.000	ug/L		95.4		70 - 130
	MSD	1417863-05	ND	24.070	25.000	ug/L	0.9	96.3	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0462		Used client sample: Y - Description: MW-16, 08/06/2014 13:00								
1,1-Dichloroethene	MS	1417863-05	ND	23.610	25.000	ug/L		94.4		70 - 130
	MSD	1417863-05	ND	23.530	25.000	ug/L	0.3	94.1	20	70 - 130
Toluene	MS	1417863-05	ND	24.020	25.000	ug/L		96.1		70 - 130
	MSD	1417863-05	ND	24.680	25.000	ug/L	2.7	98.7	20	70 - 130
Trichloroethene	MS	1417863-05	ND	23.540	25.000	ug/L		94.2		70 - 130
	MSD	1417863-05	ND	24.020	25.000	ug/L	2.0	96.1	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1417863-05	ND	10.630	10.000	ug/L		106		75 - 125
	MSD	1417863-05	ND	10.720	10.000	ug/L	0.8	107		75 - 125
Toluene-d8 (Surrogate)	MS	1417863-05	ND	10.210	10.000	ug/L		102		80 - 120
	MSD	1417863-05	ND	10.060	10.000	ug/L	1.5	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1417863-05	ND	10.440	10.000	ug/L		104		80 - 120
	MSD	1417863-05	ND	10.500	10.000	ug/L	0.6	105		80 - 120

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Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0461

Chloroacetonitrile	BXH0461-BLK1	0	ug/L			
1-Chlorobutane	BXH0461-BLK1	0	ug/L			
1,1-Dichloropropanone	BXH0461-BLK1	0	ug/L			
Methyl acrylate	BXH0461-BLK1	0	ug/L			
Nitrobenzene	BXH0461-BLK1	0	ug/L			
2-Nitropropane	BXH0461-BLK1	0	ug/L			

QC Batch ID: BXH0462

Chloroacetonitrile	BXH0462-BLK1	0	ug/L			
1-Chlorobutane	BXH0462-BLK1	0	ug/L			
1,1-Dichloropropanone	BXH0462-BLK1	0	ug/L			
Methyl acrylate	BXH0462-BLK1	0	ug/L			
Nitrobenzene	BXH0462-BLK1	0	ug/L			
2-Nitropropane	BXH0462-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0500						
Nitrite as N	BXH0500-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH0521						
ortho-Phosphate as P	BXH0521-BLK1	ND	mg/L	0.020	0.0040	
QC Batch ID: BXH0563						
Chloride	BXH0563-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXH0563-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH0563-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXH2724						
Perchlorate	BXH2724-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXH2725						
Perchlorate	BXH2725-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0500										
Nitrite as N	BXH0500-BS1	LCS	0.51678	0.50000	mg/L	103		90 - 110		
QC Batch ID: BXH0521										
ortho-Phosphate as P	BXH0521-BS1	LCS	0.19772	0.20000	mg/L	98.9		90 - 110		
QC Batch ID: BXH0563										
Chloride	BXH0563-BS1	LCS	51.871	50.000	mg/L	104		90 - 110		
Nitrate as N	BXH0563-BS1	LCS	5.2090	5.0000	mg/L	104		90 - 110		
Sulfate	BXH0563-BS1	LCS	105.07	100.00	mg/L	105		90 - 110		
QC Batch ID: BXH2724										
Perchlorate	BXH2724-BS1	LCS	8.6422	10.000	ug/L	86.4		85 - 115		
QC Batch ID: BXH2725										
Perchlorate	BXH2725-BS1	LCS	8.7637	10.000	ug/L	87.6		85 - 115		

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Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0500		Used client sample: Y - Description: MW-16, 08/06/2014 13:00								
Nitrite as N	DUP	1417863-05	ND	0.010286		mg/L			10	J
	MS	1417863-05	ND	0.59265	0.52632	mg/L		113	90 - 110	Q03
	MSD	1417863-05	ND	0.58900	0.52632	mg/L	0.6	112	10 90 - 110	Q03
QC Batch ID: BXH0521		Used client sample: Y - Description: MW-16, 08/06/2014 13:00								
ortho-Phosphate as P	DUP	1417863-05	0.24994	0.24927		mg/L	0.3		10	
	MS	1417863-05	0.24994	0.47844	0.21053	mg/L		109	90 - 110	
	MSD	1417863-05	0.24994	0.48305	0.21053	mg/L	1.0	111	10 90 - 110	Q03
QC Batch ID: BXH0563		Used client sample: Y - Description: MW-16, 08/06/2014 13:00								
Chloride	DUP	1417863-05	77.033	77.218		mg/L	0.2		10	
	MS	1417863-05	77.033	134.99	50.505	mg/L		115	80 - 120	
	MSD	1417863-05	77.033	135.08	50.505	mg/L	0.1	115	10 80 - 120	
Nitrate as N	DUP	1417863-05	1.1700	1.1730		mg/L	0.3		10	
	MS	1417863-05	1.1700	6.5657	5.0505	mg/L		107	80 - 120	
	MSD	1417863-05	1.1700	6.2434	5.0505	mg/L	5.0	100	10 80 - 120	
Sulfate	DUP	1417863-05	41.973	41.834		mg/L	0.3		10	
	MS	1417863-05	41.973	149.98	101.01	mg/L		107	80 - 120	
	MSD	1417863-05	41.973	150.85	101.01	mg/L	0.6	108	10 80 - 120	
QC Batch ID: BXH2724		Used client sample: Y - Description: MW-10, 08/06/2014 09:47								
Perchlorate	DUP	1417863-03	3.6791	3.9997		ug/L	8.4		15	J
	MS	1417863-03	3.6791	12.877	10.101	ug/L		91.1	80 - 120	
	MSD	1417863-03	3.6791	13.009	10.101	ug/L	1.0	92.4	15 80 - 120	
QC Batch ID: BXH2725		Used client sample: Y - Description: MW-16, 08/06/2014 13:00								
Perchlorate	DUP	1417863-05	ND	ND		ug/L			15	
	MS	1417863-05	ND	9.8773	10.101	ug/L		97.8	80 - 120	
	MSD	1417863-05	ND	10.564	10.101	ug/L	6.7	105	15 80 - 120	

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Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0523						
Hexavalent Chromium	BXH0523-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXH0569						
Hexavalent Chromium	BXH0569-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXH1268						
Total Recoverable Chromium	BXH1268-BLK1	ND	ug/L	3.0	0.50	

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Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0523										
Hexavalent Chromium	BXH0523-BS1	LCS	0.049250	0.050000	mg/L	98.5		85	115	
QC Batch ID: BXH0569										
Hexavalent Chromium	BXH0569-BS1	LCS	0.048106	0.050000	mg/L	96.2		85	115	
QC Batch ID: BXH1268										
Total Recoverable Chromium	BXH1268-BS1	LCS	41.917	40.000	ug/L	105		85	115	

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Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0523		Used client sample: Y - Description: MW-10, 08/06/2014 09:47								
Hexavalent Chromium	DUP	1417863-03	0.0010130	0.0010320		mg/L	1.9		10	J
	MS	1417863-03	0.0010130	0.052103	0.052632	mg/L		97.1	85 - 115	
	MSD	1417863-03	0.0010130	0.052043	0.052632	mg/L	0.1	97.0	10	85 - 115
QC Batch ID: BXH0569		Used client sample: Y - Description: MW-16, 08/06/2014 13:00								
Hexavalent Chromium	DUP	1417863-05	0.0024680	0.0024450		mg/L	0.9		10	
	MS	1417863-05	0.0024680	0.052722	0.052632	mg/L		95.5	85 - 115	
	MSD	1417863-05	0.0024680	0.053951	0.052632	mg/L	2.3	97.8	10	85 - 115
QC Batch ID: BXH1268		Used client sample: Y - Description: MW-10, 08/06/2014 09:47								
Total Recoverable Chromium	DUP	1417863-03	5.7330	5.8200		ug/L	1.5		20	
	MS	1417863-03	5.7330	44.710	40.000	ug/L		97.4	70 - 130	
	MSD	1417863-03	5.7330	44.887	40.000	ug/L	0.4	97.9	20	70 - 130

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Powell, OH 43065

Reported: 08/28/2014 15:43
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.

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Date of Report: 08/28/2014

David Conner

Tidewater Inc.

3761 Attucks Drive

Powell, OH 43065

Client Project: 3rd Qtr.

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 1418066

Invoice ID: B181897

Enclosed are the results of analyses for samples received by the laboratory on 8/7/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page Of

Submission #: 14-18066

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) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	---	--

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: 0.97 Container: Pe Thermometer ID: 207 Date/Time: 8/7/14 1850

Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init: MW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		A	B	B	B					
PT PE UNPRESERVED			C	C	C					
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		B	D	D	D					
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,6	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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
SMART KIT										
Summa Canister										

Comments: _____

Sample Numbering Completed By: MW Date/Time: 8/7/14 @ 0045 IS:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

A = Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1418066-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-9-8/7/14 Sampled By: Blaine Tech of BAT	Receive Date: 08/07/2014 18:50 Sampling Date: 08/07/2014 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-9-8/7/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1418066-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-15 Sampled By: Blaine Tech of BAT	Receive Date: 08/07/2014 18:50 Sampling Date: 08/07/2014 08:11 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-15 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1418066-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-8 Sampled By: Blaine Tech of BAT	Receive Date: 08/07/2014 18:50 Sampling Date: 08/07/2014 11:13 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1418066-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-13 Sampled By: Blaine Tech of BAT	Receive Date: 08/07/2014 18:50 Sampling Date: 08/07/2014 12:28 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-13 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1418066-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-7 Sampled By: Blaine Tech of BAT	Receive Date: 08/07/2014 18:50 Sampling Date: 08/07/2014 13:26 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-01	Client Sample Name: JPL-GW, TB-9-8/7/14, 8/7/2014 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		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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-01	Client Sample Name: JPL-GW, TB-9-8/7/14, 8/7/2014 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-01	Client Sample Name: JPL-GW, TB-9-8/7/14, 8/7/2014 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.3	%	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	08/08/14	08/09/14 05:19	MGC	MS-V5	1	BXH0681

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1418066-01	Client Sample Name: JPL-GW, TB-9-8/7/14, 8/7/2014 7:00:00AM, 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	08/08/14	08/09/14 05:19	MGC	MS-V5	1	BXH0681

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1418066-02	Client Sample Name: JPL-GW, MW-15, 8/7/2014 8:11:00AM, 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	2.7	ug/L	3.0	0.50	EPA-200.8	2.2	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/08/14	08/08/14 07:12	TDC	KONE-1	1	BXH0625
2	EPA-200.8	08/19/14	08/19/14 18:59	SRM	PE-EL2	1	BXH1671

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-03	Client Sample Name: JPL-GW, MW-8, 8/7/2014 11:13:00AM, 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	0.74	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	0.24	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	5.1	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-03	Client Sample Name: JPL-GW, MW-8, 8/7/2014 11:13:00AM, 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	0.39	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-03	Client Sample Name: JPL-GW, MW-8, 8/7/2014 11:13:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.1	%	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	08/08/14	08/09/14 05:42	MGC	MS-V5	1	BXH0681

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1418066-03	Client Sample Name: JPL-GW, MW-8, 8/7/2014 11:13:00AM, 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	08/08/14	08/09/14 05:42	MGC	MS-V5	1	BXH0681

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Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1418066-03	Client Sample Name: JPL-GW, MW-8, 8/7/2014 11:13:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	50	mg/L	0.50	0.067	EPA-300.0	0.18		1
Nitrate as N	2.4	mg/L	0.10	0.025	EPA-300.0	ND		1
Sulfate	44	mg/L	1.0	0.18	EPA-300.0	0.18		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	180	ug/L	80	9.0	EPA-314.0	ND	A01	3
ortho-Phosphate as P	ND	mg/L	0.020	0.0040	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/08/14	08/08/14 22:50	OLH	IC5	1	BXH0804
2	EPA-353.2	08/08/14	08/08/14 09:01	TDC	KONE-1	1	BXH0622
3	EPA-314.0	08/25/14	08/26/14 06:17	OLH	IC6	20	BXH2725
4	EPA-365.1	08/08/14	08/08/14 08:44	TDC	KONE-1	1	BXH0626

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1418066-03	Client Sample Name: JPL-GW, MW-8, 8/7/2014 11:13:00AM, 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	18	ug/L	3.0	0.50	EPA-200.8	2.2		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/08/14	08/08/14 07:12	TDC	KONE-1	1	BXH0625
2	EPA-200.8	08/19/14	08/19/14 19:02	SRM	PE-EL2	1	BXH1671

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-04	Client Sample Name: JPL-GW, MW-13, 8/7/2014 12:28:00PM, 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	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	0.37	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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-04	Client Sample Name: JPL-GW, MW-13, 8/7/2014 12:28:00PM, 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	0.11	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	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	0.24	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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-04	Client Sample Name: JPL-GW, MW-13, 8/7/2014 12:28:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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	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)	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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/08/14	08/09/14 03:04	MGC	MS-V5	1	BXH0681

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1418066-04	Client Sample Name: JPL-GW, MW-13, 8/7/2014 12:28:00PM, 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	08/08/14	08/09/14 03:04	MGC	MS-V5	1	BXH0681

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1418066-04	Client Sample Name: JPL-GW, MW-13, 8/7/2014 12:28:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	110	mg/L	0.50	0.067	EPA-300.0	0.18		1
Nitrate as N	10	mg/L	0.10	0.025	EPA-300.0	ND		1
Sulfate	140	mg/L	1.0	0.18	EPA-300.0	0.18		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	160	ug/L	40	4.5	EPA-314.0	ND	A01	3
ortho-Phosphate as P	0.0041	mg/L	0.020	0.0040	EPA-365.1	ND	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/08/14	08/09/14 02:19	LD1	IC5	1	BXH0804
2	EPA-353.2	08/08/14	08/08/14 09:01	TDC	KONE-1	1	BXH0622
3	EPA-314.0	08/25/14	08/26/14 18:08	OLH	IC6	10	BXH2726
4	EPA-365.1	08/08/14	08/08/14 08:44	TDC	KONE-1	1	BXH0626

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1418066-04	Client Sample Name: JPL-GW, MW-13, 8/7/2014 12:28:00PM, 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	51000	ug/L	380	62	EPA-200.8	270	A01	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/08/14	08/08/14 07:12	TDC	KONE-1	1	BXH0625
2	EPA-200.8	08/19/14	08/19/14 20:31	SRM	PE-EL2	125	BXH1671

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-05	Client Sample Name: JPL-GW, MW-7, 8/7/2014 1:26:00PM, 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	1.7	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	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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-05	Client Sample Name: JPL-GW, MW-7, 8/7/2014 1:26:00PM, 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
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	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
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1418066-05	Client Sample Name: JPL-GW, MW-7, 8/7/2014 1:26:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
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
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
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	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)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.1	%	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	08/08/14	08/09/14 06:05	MGC	MS-V5	1	BXH0681

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1418066-05	Client Sample Name: JPL-GW, MW-7, 8/7/2014 1:26:00PM, 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	08/08/14	08/09/14 06:05	MGC	MS-V5	1	BXH0681

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1418066-05	Client Sample Name: JPL-GW, MW-7, 8/7/2014 1:26:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	86	mg/L	0.50	0.067	EPA-300.0	0.18		1
Nitrate as N	0.56	mg/L	0.10	0.025	EPA-300.0	ND		1
Sulfate	49	mg/L	1.0	0.18	EPA-300.0	0.18		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		3
ortho-Phosphate as P	ND	mg/L	0.020	0.0040	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/08/14	08/09/14 04:03	LD1	IC5	1	BXH0804
2	EPA-353.2	08/08/14	08/08/14 09:01	TDC	KONE-1	1	BXH0622
3	EPA-314.0	08/25/14	08/26/14 03:18	OLH	IC6	1	BXH2726
4	EPA-365.1	08/08/14	08/08/14 08:44	TDC	KONE-1	1	BXH0626

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1418066-05	Client Sample Name: JPL-GW, MW-7, 8/7/2014 1:26:00PM, 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	9100	ug/L	60	10	EPA-200.8	43	A01	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/08/14	08/08/14 07:12	TDC	KONE-1	1	BXH0625
2	EPA-200.8	08/19/14	08/19/14 21:38	SRM	PE-EL2	20	BXH1671

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0681						
Benzene	BXH0681-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXH0681-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXH0681-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXH0681-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXH0681-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXH0681-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXH0681-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXH0681-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXH0681-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXH0681-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXH0681-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXH0681-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXH0681-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXH0681-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXH0681-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXH0681-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXH0681-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXH0681-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXH0681-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXH0681-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXH0681-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXH0681-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXH0681-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXH0681-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXH0681-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXH0681-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXH0681-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXH0681-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXH0681-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXH0681-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXH0681-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXH0681-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXH0681-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXH0681-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0681						
trans-1,3-Dichloropropene	BXH0681-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXH0681-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXH0681-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXH0681-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXH0681-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXH0681-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXH0681-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXH0681-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXH0681-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXH0681-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXH0681-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXH0681-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXH0681-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXH0681-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXH0681-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXH0681-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXH0681-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXH0681-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXH0681-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXH0681-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXH0681-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXH0681-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXH0681-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXH0681-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXH0681-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXH0681-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXH0681-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXH0681-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXH0681-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXH0681-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXH0681-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXH0681-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXH0681-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXH0681-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0681						
Ethyl t-butyl ether	BXH0681-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXH0681-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXH0681-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXH0681-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXH0681-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXH0681-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXH0681-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXH0681-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXH0681-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXH0681-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXH0681-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXH0681-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXH0681-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXH0681-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXH0681-BLK1	102	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXH0681-BLK1	92.3	%	80 - 120 (LCL - UCL)		

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0681										
Benzene	BXH0681-BS1	LCS	24.620	25.000	ug/L	98.5		70 - 130		
Bromodichloromethane	BXH0681-BS1	LCS	24.780	25.000	ug/L	99.1		70 - 130		
Chlorobenzene	BXH0681-BS1	LCS	24.290	25.000	ug/L	97.2		70 - 130		
Chloroethane	BXH0681-BS1	LCS	28.720	25.000	ug/L	115		70 - 130		
1,4-Dichlorobenzene	BXH0681-BS1	LCS	25.600	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	BXH0681-BS1	LCS	24.250	25.000	ug/L	97.0		70 - 130		
1,1-Dichloroethene	BXH0681-BS1	LCS	24.480	25.000	ug/L	97.9		70 - 130		
Toluene	BXH0681-BS1	LCS	24.510	25.000	ug/L	98.0		70 - 130		
Trichloroethene	BXH0681-BS1	LCS	27.420	25.000	ug/L	110		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXH0681-BS1	LCS	10.500	10.000	ug/L	105		75 - 125		
Toluene-d8 (Surrogate)	BXH0681-BS1	LCS	10.150	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXH0681-BS1	LCS	10.480	10.000	ug/L	105		80 - 120		

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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 Quals	
								RPD	Percent		
QC Batch ID: BXH0681		Used client sample: Y - Description: MW-13, 08/07/2014 12:28									
Benzene	MS	1418066-04	ND	25.260	25.000	ug/L		101		70 - 130	
	MSD	1418066-04	ND	25.650	25.000	ug/L	1.5	103	20	70 - 130	
Bromodichloromethane	MS	1418066-04	ND	25.610	25.000	ug/L		102		70 - 130	
	MSD	1418066-04	ND	26.430	25.000	ug/L	3.2	106	20	70 - 130	
Chlorobenzene	MS	1418066-04	ND	24.660	25.000	ug/L		98.6		70 - 130	
	MSD	1418066-04	ND	25.060	25.000	ug/L	1.6	100	20	70 - 130	
Chloroethane	MS	1418066-04	ND	30.140	25.000	ug/L		121		70 - 130	
	MSD	1418066-04	ND	30.260	25.000	ug/L	0.4	121	20	70 - 130	
1,4-Dichlorobenzene	MS	1418066-04	ND	25.560	25.000	ug/L		102		70 - 130	
	MSD	1418066-04	ND	27.270	25.000	ug/L	6.5	109	20	70 - 130	
1,1-Dichloroethane	MS	1418066-04	0.37000	25.210	25.000	ug/L		99.4		70 - 130	
	MSD	1418066-04	0.37000	26.060	25.000	ug/L	3.3	103	20	70 - 130	
1,1-Dichloroethene	MS	1418066-04	ND	24.880	25.000	ug/L		99.5		70 - 130	
	MSD	1418066-04	ND	25.010	25.000	ug/L	0.5	100	20	70 - 130	
Toluene	MS	1418066-04	ND	25.030	25.000	ug/L		100		70 - 130	
	MSD	1418066-04	ND	25.170	25.000	ug/L	0.6	101	20	70 - 130	
Trichloroethene	MS	1418066-04	0.24000	24.420	25.000	ug/L		96.7		70 - 130	
	MSD	1418066-04	0.24000	24.420	25.000	ug/L	0	96.7	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1418066-04	ND	10.420	10.000	ug/L		104		75 - 125	
	MSD	1418066-04	ND	10.670	10.000	ug/L	2.4	107		75 - 125	
Toluene-d8 (Surrogate)	MS	1418066-04	ND	10.280	10.000	ug/L		103		80 - 120	
	MSD	1418066-04	ND	10.120	10.000	ug/L	1.6	101		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1418066-04	ND	10.330	10.000	ug/L		103		80 - 120	
	MSD	1418066-04	ND	10.440	10.000	ug/L	1.1	104		80 - 120	

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0681						
Chloroacetonitrile	BXH0681-BLK1	0	ug/L			
1-Chlorobutane	BXH0681-BLK1	0	ug/L			
1,1-Dichloropropanone	BXH0681-BLK1	0	ug/L			
Methyl acrylate	BXH0681-BLK1	0	ug/L			
Nitrobenzene	BXH0681-BLK1	0	ug/L			
2-Nitropropane	BXH0681-BLK1	0	ug/L			

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0622						
Nitrite as N	BXH0622-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXH0626						
ortho-Phosphate as P	BXH0626-BLK1	ND	mg/L	0.020	0.0040	
QC Batch ID: BXH0804						
Chloride	BXH0804-BLK1	0.18000	mg/L	0.50	0.067	J
Nitrate as N	BXH0804-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXH0804-BLK1	0.18400	mg/L	1.0	0.18	J
QC Batch ID: BXH2725						
Perchlorate	BXH2725-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXH2726						
Perchlorate	BXH2726-BLK1	ND	ug/L	4.0	0.45	

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
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: BXH0622										
Nitrite as N	BXH0622-BS1	LCS	0.50886	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXH0626										
ortho-Phosphate as P	BXH0626-BS1	LCS	0.19700	0.20000	mg/L	98.5		90 - 110		
QC Batch ID: BXH0804										
Chloride	BXH0804-BS1	LCS	52.938	50.000	mg/L	106		90 - 110		
Nitrate as N	BXH0804-BS1	LCS	5.2090	5.0000	mg/L	104		90 - 110		
Sulfate	BXH0804-BS1	LCS	104.50	100.00	mg/L	105		90 - 110		
QC Batch ID: BXH2725										
Perchlorate	BXH2725-BS1	LCS	8.7637	10.000	ug/L	87.6		85 - 115		
QC Batch ID: BXH2726										
Perchlorate	BXH2726-BS1	LCS	9.3030	10.000	ug/L	93.0		85 - 115		

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits (RPD, Percent Recovery), Lab Quals. Includes QC Batch IDs: BXH0622, BXH0626, BXH0804, BXH2725, BXH2726.

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Tidewater Inc.
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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH0625						
Hexavalent Chromium	BXH0625-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXH1671						
Total Recoverable Chromium	BXH1671-BLK1	2.1640	ug/L	3.0	0.50	J

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0625										
Hexavalent Chromium	BXH0625-BS1	LCS	0.050017	0.050000	mg/L	100		85 - 115		
QC Batch ID: BXH1671										
Total Recoverable Chromium	BXH1671-BS1	LCS	43.040	40.000	ug/L	108		85 - 115		

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Reported: 08/28/2014 15:44
Project: JPL- GW Monitoring Wells
Project Number: 3rd Qtr.
Project Manager: David Conner

Metals Analysis

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: BXH0625		Used client sample: Y - Description: MW-13, 08/07/2014 12:28								
Hexavalent Chromium	DUP	1418066-04	ND	ND		mg/L			10	
	MS	1418066-04	ND	0.049352	0.052632	mg/L		93.8		85 - 115
	MSD	1418066-04	ND	0.049535	0.052632	mg/L	0.4	94.1	10	85 - 115
QC Batch ID: BXH1671		Used client sample: Y - Description: MW-13, 08/07/2014 12:28								
Total Recoverable Chromium	DUP	1418066-04	50677	56454		ug/L	10.8		20	
	MS	1418066-04	50677	52826	40.000	ug/L		5370		70 - 130 A03
	MSD	1418066-04	50677	64252	40.000	ug/L	19.5	33900	20	70 - 130 A03

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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.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- 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.