

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

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



Date of Report: 08/07/2017

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 3Q17
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1720234
Invoice ID: B275350

Enclosed are the results of analyses for samples received by the laboratory on 7/24/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Stuart Buttram
Technical Director

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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Chain of Custody Form



Page 1 of 2

Required Fields

Report To: Tidewater, Inc.
 Client: David Conner
 Attn: David Conner
 Street Address: 3761 Altucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 626 298 5715 Fax: 614 792 2897
 Email Address: david.conner@tideh2o.net
 Submission #: 1720234

Project Description: JPL-GW Monitoring
 Project Code: 3Q17
 Sampler(s): Blaine Tech
 Technician: *Tyisha Hoang*

Analysis Requested

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

Matrix*

Sample #	Date	Time	Matrix*
TB-1-072417	07/24/17	0700	GW
MW-20-5	07/25	0745	GW
MW-20-4	0815	0815	GW
MW-20-3	0845	0845	GW
DGP-1-3617	0855	0855	GW
MW-20-2	0955	0955	GW
MW-20-1	1000	1000	GW
MW-19-5	1145	1145	GW
MW-19-4	1200	1200	GW
MW-19-3	1235	1235	GW
MW-19-2	1250	1250	GW

Notes

START HOLDING TIME
 C18 NO2 NO3 OP SS
 DO Cl2 BOD MBAS COT
 CHK BY: *MRS. T. HOANG*
 DISTRIBUTION
 SUB-OUT
 LEVEL IV

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)

Cost Center:
 1. Relinquished By: [Signature] Date: 07/24/17 Time: 1400
 2. Relinquished By: [Signature] Date: 7-24-17 Time: 1735
 3. Relinquished By: [Signature] Date: [Signature] Time: [Signature]

Global ID: 7-24-17
 1. Received By: [Signature] Date: 7-24-17 Time: 1400
 2. Received By: [Signature] Date: [Signature] Time: [Signature]
 3. Received By: [Signature] Date: [Signature] Time: [Signature]

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



Chain of Custody Form



Page 2 of 2

Report To: Tidewater, Inc.
Client: David Conner
Attn: David Conner
Street Address: 3761 Attucks Drive
City: Powell **State:** OH **Zip:** 43065
Phone: 626) 288 - 5715 **Fax:** 614) 792 - 2897
Email Address: david.conner@tidewater.net
Submission #: 17-20234

Project Description: JPL-GW Monitoring
Project Code: 3Q17
Sampler(s): Blaine Tech
Thane Hobbs

Analysis Requested:
 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)

Billing:
Client: The Bodhi Group
Attn: Sree Gopinath
Address: 5480 Baltimore Drive, Suite 209
City: La Mesa **State:** CA **Zip:** 91949
 Are there any tests with holding times?
 Yes No
 *Standard Turnaround = 10

Sample #	Sample Description	Date	Time	Matrix*	Notes
19-1	-12	07/24/17	1315	GW	
SB-102417	-13		1325	GW	X
EB-102417	-14		1330	GW	X

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

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: _____ Date: 08/24/17 Time: 1700
 2. Relinquished By: _____ Date: 7-24-17 Time: 1155
 3. Relinquished By: _____ Date: _____ Time: _____

Global ID:
 1. Received By: _____ Date: 7-24-17 Time: 1400
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 2

Submission #: 17-20234

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO, W/S

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No

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

COC Received: YES, NO. Emissivity: 0.95. Container: PE. Thermometer ID: 208. Date/Time: 7/17/17. Analyst Init: RNR. Temperature: (A) 0.6, (C) 0.4

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various container types like QT PE UNPRES, PT INORGANIC CHEMICAL METALS, etc.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 7-24 1830 Rev 21 05/23/2016



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 17-20234

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO S

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received
 YES NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/24/17 1748
 Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init RNR

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	0	0	0	0						
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz			1	1						
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC				ABC	ABC	ABC
QT EPA 1664										
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 EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: _____ Date/Time: 7:24 1840
 A = Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720234-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-1-072417 Sampled By: BAT	Receive Date: 07/24/2017 17:55 Sampling Date: 07/24/2017 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-1-072417 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1720234-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-5 Sampled By: Blaine Tech of BAT	Receive Date: 07/24/2017 17:55 Sampling Date: 07/24/2017 07:45 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720234-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/24/2017 17:55 Sampling Date: 07/24/2017 08:15 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater 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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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720234-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/24/2017 17:55 Sampling Date: 07/24/2017 08:45 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720234-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-1-3Q17 Sampled By: Blaine Tech of BAT	Receive Date: 07/24/2017 17:55 Sampling Date: 07/24/2017 08:55 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-1-3Q17 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1720234-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/24/2017 17:55 Sampling Date: 07/24/2017 09:35 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720234-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/24/2017 17:55 Sampling Date: 07/24/2017 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720234-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-5 Sampled By: Blaine Tech of BAT	Receive Date: 07/24/2017 17:55 Sampling Date: 07/24/2017 11:45 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720234-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/24/2017 17:55 Sampling Date: 07/24/2017 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720234-10	COC Number: ---	Receive Date: 07/24/2017 17:55
	Project Number: JPL-GW	Sampling Date: 07/24/2017 12:35
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-19-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-19-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1720234-11	COC Number: ---	Receive Date: 07/24/2017 17:55
	Project Number: JPL-GW	Sampling Date: 07/24/2017 12:50
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-19-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-19-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1720234-12	COC Number: ---	Receive Date: 07/24/2017 17:55
	Project Number: JPL-GW	Sampling Date: 07/24/2017 13:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-19-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-19-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720234-13	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: SB-1-072417 Sampled By: Blaine Tech of BAT	Receive Date: 07/24/2017 17:55 Sampling Date: 07/24/2017 13:25 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-1-072417 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1720234-14	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-1-072417 Sampled By: Blaine Tech of BAT	Receive Date: 07/24/2017 17:55 Sampling Date: 07/24/2017 13:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-1-072417 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-01	Client Sample Name: JPL-GW, TB-1-072417, 7/24/2017 7:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-01	Client Sample Name: JPL-GW, TB-1-072417, 7/24/2017 7:00:00AM
----------------------------------	---

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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-01	Client Sample Name: JPL-GW, TB-1-072417, 7/24/2017 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	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	08/01/17	08/01/17 14:50	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-01	Client Sample Name: JPL-GW, TB-1-072417, 7/24/2017 7:00:00AM
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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	08/01/17	08/01/17 14:50	MGC	MS-V5	1	B[H0010

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Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-02	Client Sample Name: JPL-GW, MW-20-5, 7/24/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-02	Client Sample Name: JPL-GW, MW-20-5, 7/24/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	0.29	ug/L	0.50	0.12	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-02	Client Sample Name: JPL-GW, MW-20-5, 7/24/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.3	%	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	08/01/17	08/01/17 15:13	MGC	MS-V5	1	B[H0010

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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-02	Client Sample Name: JPL-GW, MW-20-5, 7/24/2017 7:45:00AM, 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	08/01/17	08/01/17 15:13	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-02	Client Sample Name: JPL-GW, MW-20-5, 7/24/2017 7:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 02:22	OLH	IC6	1	B[H0518

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720234-02	Client Sample Name: JPL-GW, MW-20-5, 7/24/2017 7:45:00AM, 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	1.3	ug/L	3.0	0.50	EPA-200.8	0.82	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	07/25/17	07/25/17 07:41	RCC	KONE-1	1	B[G2091
2	EPA-200.8	07/28/17	07/31/17 23:15	ARD	PE-EL3	1	B[G2408

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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-03	Client Sample Name: JPL-GW, MW-20-4, 7/24/2017 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-03	Client Sample Name: JPL-GW, MW-20-4, 7/24/2017 8:15:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-03	Client Sample Name: JPL-GW, MW-20-4, 7/24/2017 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	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	08/01/17	08/01/17 15:36	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-03	Client Sample Name: JPL-GW, MW-20-4, 7/24/2017 8:15:00AM, 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	08/01/17	08/01/17 15:36	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-03	Client Sample Name: JPL-GW, MW-20-4, 7/24/2017 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 02:36	OLH	IC6	1	B[H0518

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720234-03	Client Sample Name: JPL-GW, MW-20-4, 7/24/2017 8:15:00AM, 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	1.7	ug/L	3.0	0.50	EPA-200.8	0.82	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 07:41	RCC	KONE-1	1	B[G2091
2	EPA-200.8	07/28/17	07/31/17 23:50	ARD	PE-EL3	1	B[G2408

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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-04	Client Sample Name: JPL-GW, MW-20-3, 7/24/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-04	Client Sample Name: JPL-GW, MW-20-3, 7/24/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	0.31	ug/L	0.50	0.12	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.27	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	1.8	ug/L	5.0	1.5	EPA-524.2	ND	J	1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-04	Client Sample Name: JPL-GW, MW-20-3, 7/24/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.0	%	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	08/01/17	08/01/17 15:59	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-04	Client Sample Name: JPL-GW, MW-20-3, 7/24/2017 8:45:00AM, 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	08/01/17	08/01/17 15:59	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-04	Client Sample Name: JPL-GW, MW-20-3, 7/24/2017 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 03:17	OLH	IC6	1	B[H0518

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720234-04	Client Sample Name: JPL-GW, MW-20-3, 7/24/2017 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	1.2	ug/L	3.0	0.50	EPA-200.8	0.82	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 08:05	RCC	KONE-1	1	B[G2091
2	EPA-200.8	07/28/17	07/31/17 23:53	ARD	PE-EL3	1	B[G2408

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Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-05	Client Sample Name: JPL-GW, DUP-1-3Q17, 7/24/2017 8:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-05	Client Sample Name: JPL-GW, DUP-1-3Q17, 7/24/2017 8:55:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	0.38	ug/L	0.50	0.12	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.26	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	1.6	ug/L	5.0	1.5	EPA-524.2	ND	J	1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-05	Client Sample Name: JPL-GW, DUP-1-3Q17, 7/24/2017 8:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/01/17 16:22	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-05	Client Sample Name: JPL-GW, DUP-1-3Q17, 7/24/2017 8:55:00AM, 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	08/01/17	08/01/17 16:22	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-05	Client Sample Name: JPL-GW, DUP-1-3Q17, 7/24/2017 8:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 03:31	OLH	IC6	1	B[H0518

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720234-05	Client Sample Name: JPL-GW, DUP-1-3Q17, 7/24/2017 8:55:00AM, 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	1.4	ug/L	3.0	0.50	EPA-200.8	0.82	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	07/25/17	07/25/17 07:54	RCC	KONE-1	1	B[G2091
2	EPA-200.8	07/28/17	07/31/17 23:57	ARD	PE-EL3	1	B[G2408

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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-06	Client Sample Name: JPL-GW, MW-20-2, 7/24/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.28	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-06 Client Sample Name: JPL-GW, MW-20-2, 7/24/2017 9:35:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.76	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-06	Client Sample Name: JPL-GW, MW-20-2, 7/24/2017 9:35:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	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	08/01/17	08/01/17 16:45	MGC	MS-V5	1	B[H0010

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-06	Client Sample Name: JPL-GW, MW-20-2, 7/24/2017 9:35:00AM, 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	08/01/17	08/01/17 16:45	MGC	MS-V5	1	B[H0010

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Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-06	Client Sample Name: JPL-GW, MW-20-2, 7/24/2017 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.9	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 03:45	OLH	IC6	1	B[H0518

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Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720234-06	Client Sample Name: JPL-GW, MW-20-2, 7/24/2017 9:35:00AM, 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	1.2	ug/L	3.0	0.50	EPA-200.8	0.82	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 07:54	RCC	KONE-1	1	B[G2091
2	EPA-200.8	07/28/17	08/01/17 00:00	ARD	PE-EL3	1	B[G2408

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Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-07	Client Sample Name: JPL-GW, MW-20-1, 7/24/2017 10:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-07	Client Sample Name: JPL-GW, MW-20-1, 7/24/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-07	Client Sample Name: JPL-GW, MW-20-1, 7/24/2017 10:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/01/17 17:08	MGC	MS-V5	1	B[H0010

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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-07	Client Sample Name: JPL-GW, MW-20-1, 7/24/2017 10:00:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/01/17 17:08	MGC	MS-V5	1	B[H0010

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Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-07	Client Sample Name: JPL-GW, MW-20-1, 7/24/2017 10:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 03:59	OLH	IC6	1	B[H0518

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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720234-07	Client Sample Name: JPL-GW, MW-20-1, 7/24/2017 10:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	EPA-200.8	0.82	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 07:54	RCC	KONE-1	1	B[G2091
2	EPA-200.8	07/28/17	08/01/17 00:03	ARD	PE-EL3	1	B[G2408

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-08	Client Sample Name: JPL-GW, MW-19-5, 7/24/2017 11:45:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	1.8	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-08	Client Sample Name: JPL-GW, MW-19-5, 7/24/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.26	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-08	Client Sample Name: JPL-GW, MW-19-5, 7/24/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	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	08/01/17	08/01/17 17:31	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-08	Client Sample Name: JPL-GW, MW-19-5, 7/24/2017 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/01/17 17:31	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-08	Client Sample Name: JPL-GW, MW-19-5, 7/24/2017 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.7	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 04:12	OLH	IC6	1	B[H0518

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-09	Client Sample Name: JPL-GW, MW-19-4, 7/24/2017 12:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.56	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-09	Client Sample Name: JPL-GW, MW-19-4, 7/24/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.57	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-09	Client Sample Name: JPL-GW, MW-19-4, 7/24/2017 12:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.7	%	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	08/01/17	08/01/17 17:54	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-09	Client Sample Name: JPL-GW, MW-19-4, 7/24/2017 12:00:00PM, 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	08/01/17	08/01/17 17:54	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-09	Client Sample Name: JPL-GW, MW-19-4, 7/24/2017 12:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.9	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 04:26	OLH	IC6	1	B[H0518

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-10	Client Sample Name: JPL-GW, MW-19-3, 7/24/2017 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	1.3	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-10	Client Sample Name: JPL-GW, MW-19-3, 7/24/2017 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.22	ug/L	0.50	0.19	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-10	Client Sample Name: JPL-GW, MW-19-3, 7/24/2017 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	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	08/01/17	08/01/17 18:17	MGC	MS-V5	1	B[H0010

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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-10	Client Sample Name: JPL-GW, MW-19-3, 7/24/2017 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/01/17 18:17	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-10	Client Sample Name: JPL-GW, MW-19-3, 7/24/2017 12:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.6	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 04:40	OLH	IC6	1	B[H0518

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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-11	Client Sample Name: JPL-GW, MW-19-2, 7/24/2017 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	2.7	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.17	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.37	ug/L	0.50	0.27	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-11	Client Sample Name: JPL-GW, MW-19-2, 7/24/2017 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	1.3	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-11	Client Sample Name: JPL-GW, MW-19-2, 7/24/2017 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	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)	94.2	%	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	08/01/17	08/01/17 18:40	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-11	Client Sample Name: JPL-GW, MW-19-2, 7/24/2017 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/01/17 18:40	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-11	Client Sample Name: JPL-GW, MW-19-2, 7/24/2017 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.6	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 04:54	OLH	IC6	1	B[H0518

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-12	Client Sample Name: JPL-GW, MW-19-1, 7/24/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	1.6	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-12	Client Sample Name: JPL-GW, MW-19-1, 7/24/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-12	Client Sample Name: JPL-GW, MW-19-1, 7/24/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/01/17 19:03	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-12	Client Sample Name: JPL-GW, MW-19-1, 7/24/2017 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	08/01/17	08/01/17 19:03	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-12	Client Sample Name: JPL-GW, MW-19-1, 7/24/2017 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 13:34	OLH	IC6	1	B[H0518

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-13	Client Sample Name: JPL-GW, SB-1-072417, 7/24/2017 1:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-13	Client Sample Name: JPL-GW, SB-1-072417, 7/24/2017 1:25:00PM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-13	Client Sample Name: JPL-GW, SB-1-072417, 7/24/2017 1:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.1	%	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	08/01/17	08/01/17 19:26	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-13	Client Sample Name: JPL-GW, SB-1-072417, 7/24/2017 1:25:00PM, 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	08/01/17	08/01/17 19:26	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-13	Client Sample Name: JPL-GW, SB-1-072417, 7/24/2017 1:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 05:22	OLH	IC6	1	B[H0518

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Tidewater Inc.
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Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720234-13	Client Sample Name: JPL-GW, SB-1-072417, 7/24/2017 1:25:00PM, 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	2.0	ug/L	3.0	0.50	EPA-200.8	0.82	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 07:54	RCC	KONE-1	1	B[G2091
2	EPA-200.8	07/28/17	08/01/17 00:07	ARD	PE-EL3	1	B[G2408

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-14	Client Sample Name: JPL-GW, EB-1-072417, 7/24/2017 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-14 Client Sample Name: JPL-GW, EB-1-072417, 7/24/2017 1:30:00PM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720234-14	Client Sample Name: JPL-GW, EB-1-072417, 7/24/2017 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.1	%	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	08/01/17	08/01/17 19:49	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720234-14	Client Sample Name: JPL-GW, EB-1-072417, 7/24/2017 1:30:00PM, 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	08/01/17	08/01/17 19:49	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720234-14	Client Sample Name: JPL-GW, EB-1-072417, 7/24/2017 1:30:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/03/17	08/05/17 06:03	OLH	IC6	1	B[H0518

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Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720234-14	Client Sample Name: JPL-GW, EB-1-072417, 7/24/2017 1:30:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	EPA-200.8	0.82	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	07/25/17	07/25/17 07:54	RCC	KONE-1	1	B[G2091
2	EPA-200.8	07/28/17	08/01/17 00:10	ARD	PE-EL3	1	B[G2408

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010]						
Benzene	B[H0010-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0010-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0010-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0010-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0010-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0010-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0010-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0010-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0010-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0010-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B[H0010-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0010-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0010-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0010-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0010-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0010-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0010-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0010-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0010-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0010-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0010-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0010-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0010-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010]						
trans-1,3-Dichloropropene	B[H0010-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0010-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0010-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0010-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0010-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0010-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0010-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0010-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0010-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0010-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0010-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0010-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0010-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0010-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0010-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0010-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0010-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0010-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0010-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0010-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0010-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0010-BLK1	ND	ug/L	4.0	1.3	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010]						
Ethyl t-butyl ether	B[H0010-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0010-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0010-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0010-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0010-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0010-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0010-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0010-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0010-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0010-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0010-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0010-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0010-BLK1	110	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0010-BLK1	98.3	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0010-BLK1	96.8	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010										
Benzene	B[H0010-BS1	LCS	22.320	25.000	ug/L	89.3		70 - 130		
Bromodichloromethane	B[H0010-BS1	LCS	25.430	25.000	ug/L	102		70 - 130		
Chlorobenzene	B[H0010-BS1	LCS	22.710	25.000	ug/L	90.8		70 - 130		
Chloroethane	B[H0010-BS1	LCS	22.140	25.000	ug/L	88.6		70 - 130		
1,4-Dichlorobenzene	B[H0010-BS1	LCS	24.480	25.000	ug/L	97.9		70 - 130		
1,1-Dichloroethane	B[H0010-BS1	LCS	23.570	25.000	ug/L	94.3		70 - 130		
1,1-Dichloroethene	B[H0010-BS1	LCS	25.830	25.000	ug/L	103		70 - 130		
Toluene	B[H0010-BS1	LCS	24.910	25.000	ug/L	99.6		70 - 130		
Trichloroethene	B[H0010-BS1	LCS	25.760	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0010-BS1	LCS	9.8200	10.000	ug/L	98.2		75 - 125		
Toluene-d8 (Surrogate)	B[H0010-BS1	LCS	9.7100	10.000	ug/L	97.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0010-BS1	LCS	10.010	10.000	ug/L	100		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010]		Used client sample: N								
Benzene	MS	1720530-02	ND	24.080	25.000	ug/L		96.3		70 - 130
	MSD	1720530-02	ND	24.440	25.000	ug/L	1.5	97.8	20	70 - 130
Bromodichloromethane	MS	1720530-02	ND	26.100	25.000	ug/L		104		70 - 130
	MSD	1720530-02	ND	26.560	25.000	ug/L	1.7	106	20	70 - 130
Chlorobenzene	MS	1720530-02	ND	23.120	25.000	ug/L		92.5		70 - 130
	MSD	1720530-02	ND	24.010	25.000	ug/L	3.8	96.0	20	70 - 130
Chloroethane	MS	1720530-02	ND	23.560	25.000	ug/L		94.2		70 - 130
	MSD	1720530-02	ND	24.340	25.000	ug/L	3.3	97.4	20	70 - 130
1,4-Dichlorobenzene	MS	1720530-02	ND	24.870	25.000	ug/L		99.5		70 - 130
	MSD	1720530-02	ND	25.740	25.000	ug/L	3.4	103	20	70 - 130
1,1-Dichloroethane	MS	1720530-02	ND	25.140	25.000	ug/L		101		70 - 130
	MSD	1720530-02	ND	25.720	25.000	ug/L	2.3	103	20	70 - 130
1,1-Dichloroethene	MS	1720530-02	ND	27.330	25.000	ug/L		109		70 - 130
	MSD	1720530-02	ND	27.480	25.000	ug/L	0.5	110	20	70 - 130
Toluene	MS	1720530-02	ND	25.870	25.000	ug/L		103		70 - 130
	MSD	1720530-02	ND	26.460	25.000	ug/L	2.3	106	20	70 - 130
Trichloroethene	MS	1720530-02	ND	26.660	25.000	ug/L		107		70 - 130
	MSD	1720530-02	ND	27.850	25.000	ug/L	4.4	111	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1720530-02	ND	9.9900	10.000	ug/L		99.9		75 - 125
	MSD	1720530-02	ND	9.8000	10.000	ug/L	1.9	98.0		75 - 125
Toluene-d8 (Surrogate)	MS	1720530-02	ND	9.5400	10.000	ug/L		95.4		80 - 120
	MSD	1720530-02	ND	9.7700	10.000	ug/L	2.4	97.7		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1720530-02	ND	10.000	10.000	ug/L		100		80 - 120
	MSD	1720530-02	ND	9.6400	10.000	ug/L	3.7	96.4		80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010]						
Chloroacetonitrile	B[H0010-BLK1	0	ug/L			
1-Chlorobutane	B[H0010-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0010-BLK1	0	ug/L			
Methyl acrylate	B[H0010-BLK1	0	ug/L			
Nitrobenzene	B[H0010-BLK1	0	ug/L			
2-Nitropropane	B[H0010-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0518]						
Perchlorate	B[H0518-BLK1	ND	ug/L	4.0	0.58	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0518										
Perchlorate	B[H0518-BS1	LCS	9.6401	10.000	ug/L	96.4		85 - 115		

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Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0518		Used client sample: N								
Perchlorate	DUP	1720252-01	1.2117	1.2866		ug/L	6.0		15	J
	MS	1720252-01	1.2117	10.026	10.101	ug/L		87.3	80 - 120	
	MSD	1720252-01	1.2117	10.194	10.101	ug/L	1.7	88.9	15 80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2091]						
Hexavalent Chromium	B[G2091-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: B[G2408]						
Total Recoverable Chromium	B[G2408-BLK1	0.81800	ug/L	3.0	0.50	J

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2091										
Hexavalent Chromium	B[G2091-BS1	LCS	0.048817	0.050000	mg/L	97.6		85	115	
QC Batch ID: B[G2408										
Total Recoverable Chromium	B[G2408-BS1	LCS	42.750	40.000	ug/L	107		85	115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2091]		Used client sample: Y - Description: MW-20-5, 07/24/2017 07:45								
Hexavalent Chromium	DUP	1720234-02	ND	ND		mg/L			10	
	MS	1720234-02	ND	0.039448	0.052632	mg/L		75.0		85 - 115 Q03
	MSD	1720234-02	ND	0.038803	0.052632	mg/L	1.6	73.7	10	85 - 115 Q03
QC Batch ID: B[G2408]		Used client sample: Y - Description: MW-20-5, 07/24/2017 07:45								
Total Recoverable Chromium	DUP	1720234-02	1.2770	1.4340		ug/L	11.6		20	J
	MS	1720234-02	1.2770	42.715	40.000	ug/L		104		70 - 130
	MSD	1720234-02	1.2770	41.608	40.000	ug/L	2.6	101	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/07/2017 17:42
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 08/08/2017

David Conner

Tidewater Inc.

3761 Attucks Drive
Powell, OH 43065

Client Project: 3Q17
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1720381
Invoice ID: B275551

Enclosed are the results of analyses for samples received by the laboratory on 7/25/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Stuart Buttram
Technical Director

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: * 43065
 Phone #: * (626) 298-5715 Fax #: (614) 792-2897
 Email Address: david.conner@tideh2o.net
 Submission #: 17-20381

Project Description: * JPL-GW Monitoring Project Code: * 3Q17
 Sampler(s): * Blaine Tech Think Hours

Billing
 Client: * The Bodhi Group
 Attn: * Sree Gopinath
 Address: * 5480 Baltimore Drive, Suite 209 City: * La Mesa State: * CA Zip: * 91946
 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)
TB-2-022517	-1	07/25/17	0700	GW	X						
MW-14-5	-2	07/20	0730	GW	X						
MW-14-4	-3	07/20	0750	GW	X						
MW-14-5	-4	08/15	0815	GW	X						
DOP-2-3417	-5	08/25	0825	GW	X						
MW-14-2	-6	09/00	0900	GW	X						
MW-14-1	-7	09/30	0930	GW	X						
MW-25-5	-8	11/15	1115	GW	X						
MW-25-4	-9	11/50	1150	GW	X						
MW-25-3	-10	12/15	1215	GW	X						
MW-25-2	-11	12/50	1250	GW	X						

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

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

Lab TAT Approval: _____ * Additional Charges May Apply

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: 07/25/17 Time: 1705
 2. Relinquished By: [Signature] Date: 7-25-17 Time: 1745
 3. Relinquished By: [Signature] Date: 7-25-17 Time: 1745

Global IP:
 1. Received By: [Signature] Date: 7-25-17 Time: 1745
 2. Received By: [Signature] Date: 7-25-17 Time: 1745
 3. Received By: [Signature] Date: 7-25-17 Time: 1745

Notes:
 Level IV
 SHORT HOLDING TIME
 CR+6 NO2 NO3 OP SS
 TO CL BOD MBAS COT
 CHICK BY [Signature] MMS SUBROUT
 Level IV

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

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody Form

Page 2 of 2

Report To: Tidewater, Inc. Client: * David Corner Attn: * David Corner Street Address: * 3761 Attucks Drive City: * Powell State: * OH Zip: * 43065 Phone: * 626 298 - 5715 Fax: 614 792 - 2897 Email Address: david.corner@tideh2o.net		Project Description: * JPL-GW Monitoring Project Code: * 3Q17 Sampler(s): * Blaine Tech Think Hacking		Billing Client: * The Bodhi Group Attn: * Sree Gopinath Address: * 5480 Baltimore Drive, Suite 209 City: * La Mesa State: * CA Zip: * 91944 Are there any tests with holding times? less than or equal to 48 hours? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *Standard Turnaround = 10		
*Required Fields Submission #: <u>17-20381</u>		Analysis Requested				
Sample # WW-25-1 EB-2-072517	Sample Description -12 -13	Date 07/25/17 7/25/17	Time 1320 1330	Matrix* GW GW	Analysis Requested VOCs EPA 524.2 Total Cr (200.8) <input checked="" type="checkbox"/> Perchlorate (EPA 314.0) <input checked="" type="checkbox"/> Chloride, Nitrate, Sulfate (300) <input type="checkbox"/> Orthophosphate (365.1) <input type="checkbox"/> Nitrite (353.2) <input checked="" type="checkbox"/> Hexavalent Cr (7196) <input checked="" type="checkbox"/>	
Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other		Turnaround # of working days: * <input type="checkbox"/> 24 Hr Rush <input type="checkbox"/> 48 Hr Rush <input checked="" type="checkbox"/> Normal (10 - Days) <input checked="" type="checkbox"/> 3-5 Day Rush		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)		Cost Center: 1. Relinquished By: _____ Date: _____ Time: _____ 2. Relinquished By: _____ Date: _____ Time: _____ 3. Relinquished By: _____ Date: _____ Time: _____		Global ID: 1. Received By: _____ Date: _____ Time: _____ 2. Received By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____		

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



BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 3 Submission #: 1720381

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO, W/S

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, 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: 0.95. Container: PE. Thermometer ID: 208. Date/Time: 7/25/17 1744. Temperature: (A) 0.4 C / (C) 0.7 C. Analyst Init: RNR

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like OT PE UNPRES, INORGANIC CHEMICAL METALS, PT CYANIDE, etc.

Comments: Sample Numbering Completed By: Actual / C = Corrected Date/Time: 7.25 2090 Rev 21 05/23/2016



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 3

Submission #: 17-20381-115

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO
 (W) / S

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received YES NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 7/25/17 1744
 Temperature: (A) 0.4 °C / (C) 0.7 °C Analyst Init: RNL

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL		ABC	ABC							
QT EPA 1664										
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 EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz. AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: _____ Date/Time: 7-25 2017 Rev 21 05/23/2016
 = Actual / C = Corrected
 IS:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISAMRECrev 20



BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 3

Submission #: 17-20381

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service. SHIPPING CONTAINER: Ice Chest, None, Box. 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: 0.95. Container: PE. Thermometer ID: 208. Date/Time: 7/25/17 1744. Analyst Init: RNR. Temperature: (A) 0.1, (C) 0.4.

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT PE UNPRES, INORGANIC CHEMICAL METALS, etc. with handwritten entries.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 7-25-2017 Rev 21 05/23/2016



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1720381-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-2-072517 Sampled By: Blaine Tech of BAT	Receive Date: 07/25/2017 17:45 Sampling Date: 07/25/2017 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-2-072517 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720381-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-5 Sampled By: Blaine Tech of BAT	Receive Date: 07/25/2017 17:45 Sampling Date: 07/25/2017 07:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720381-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/25/2017 17:45 Sampling Date: 07/25/2017 07:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720381-04	COC Number: ---	Receive Date: 07/25/2017 17:45
	Project Number: JPL-GW	Sampling Date: 07/25/2017 08:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-14-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-14-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1720381-05	COC Number: ---	Receive Date: 07/25/2017 17:45
	Project Number: JPL-GW	Sampling Date: 07/25/2017 08:25
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: DUP-2-3Q17	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): DUP-2-3Q17
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1720381-06	COC Number: ---	Receive Date: 07/25/2017 17:45
	Project Number: JPL-GW	Sampling Date: 07/25/2017 09:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-14-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-14-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720381-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/25/2017 17:45 Sampling Date: 07/25/2017 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720381-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-5 Sampled By: Blaine Tech of BAT	Receive Date: 07/25/2017 17:45 Sampling Date: 07/25/2017 11:15 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720381-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/25/2017 17:45 Sampling Date: 07/25/2017 11:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720381-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/25/2017 17:45 Sampling Date: 07/25/2017 12:15 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720381-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/25/2017 17:45 Sampling Date: 07/25/2017 12:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720381-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/25/2017 17:45 Sampling Date: 07/25/2017 13:20 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater 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: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720381-13	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-2-072517 Sampled By: Blaine Tech of BAT	Receive Date: 07/25/2017 17:45 Sampling Date: 07/25/2017 13:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-2-072517 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-01	Client Sample Name: JPL-GW, TB-2-072517, 7/25/2017 7:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-01	Client Sample Name: JPL-GW, TB-2-072517, 7/25/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-01	Client Sample Name: JPL-GW, TB-2-072517, 7/25/2017 7:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.4	%	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	08/01/17	08/02/17 02:21	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-01	Client Sample Name: JPL-GW, TB-2-072517, 7/25/2017 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	08/01/17	08/02/17 02:21	MGC	MS-V5	1	B[H0011

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-02	Client Sample Name: JPL-GW, MW-14-5, 7/25/2017 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-02	Client Sample Name: JPL-GW, MW-14-5, 7/25/2017 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-02	Client Sample Name: JPL-GW, MW-14-5, 7/25/2017 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.6	%	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	08/01/17	08/02/17 02:43	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-02	Client Sample Name: JPL-GW, MW-14-5, 7/25/2017 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/02/17 02:43	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-02	Client Sample Name: JPL-GW, MW-14-5, 7/25/2017 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/05/17 22:15	OLH	IC6	1	B[H0534

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-03	Client Sample Name: JPL-GW, MW-14-4, 7/25/2017 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.15	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-03	Client Sample Name: JPL-GW, MW-14-4, 7/25/2017 7:50:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-03	Client Sample Name: JPL-GW, MW-14-4, 7/25/2017 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.1	%	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	08/01/17	08/02/17 03:06	MGC	MS-V5	1	B[H0011

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-03	Client Sample Name: JPL-GW, MW-14-4, 7/25/2017 7:50:00AM, 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	08/01/17	08/02/17 03:06	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-03	Client Sample Name: JPL-GW, MW-14-4, 7/25/2017 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.8	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/05/17 22:29	OLH	IC6	1	B[H0534

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-04	Client Sample Name: JPL-GW, MW-14-3, 7/25/2017 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.46	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.24	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-04	Client Sample Name: JPL-GW, MW-14-3, 7/25/2017 8:15:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.41	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.86	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-04	Client Sample Name: JPL-GW, MW-14-3, 7/25/2017 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/02/17 03:30	MGC	MS-V5	1	B[H0011

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-04	Client Sample Name: JPL-GW, MW-14-3, 7/25/2017 8:15:00AM, 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	08/01/17	08/02/17 03:30	MGC	MS-V5	1	B[H0011

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-04	Client Sample Name: JPL-GW, MW-14-3, 7/25/2017 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.9	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/05/17 22:42	OLH	IC6	1	B[H0534

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720381-04	Client Sample Name: JPL-GW, MW-14-3, 7/25/2017 8:15:00AM, 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	0.99	ug/L	3.0	0.50	EPA-200.8	0.54	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 21:46	JSW	KONE-1	1	B[G2222
2	EPA-200.8	08/01/17	08/01/17 22:11	MH1	PE-EL3	1	B[H0054

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-05 **Client Sample Name:** JPL-GW, DUP-2-3Q17, 7/25/2017 8:25:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.45	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.26	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	1720381-05	Client Sample Name:	JPL-GW, DUP-2-3Q17, 7/25/2017 8:25:00AM, 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	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	0.42	ug/L	0.50	0.23	EPA-524.2	ND	J	1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	1.0	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-05	Client Sample Name: JPL-GW, DUP-2-3Q17, 7/25/2017 8:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.0	%	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	08/01/17	08/02/17 03:53	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-05 **Client Sample Name:** JPL-GW, DUP-2-3Q17, 7/25/2017 8:25:00AM, 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	08/01/17	08/02/17 03:53	MGC	MS-V5	1	B[H0011

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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-05	Client Sample Name: JPL-GW, DUP-2-3Q17, 7/25/2017 8:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.7	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/05/17 22:56	OLH	IC6	1	B[H0534

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720381-05	Client Sample Name: JPL-GW, DUP-2-3Q17, 7/25/2017 8:25:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.84	ug/L	3.0	0.50	EPA-200.8	0.54	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 21:46	JSW	KONE-1	1	B[G2222
2	EPA-200.8	08/01/17	08/02/17 12:42	MH1	PE-EL3	1	B[H0054

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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-06	Client Sample Name: JPL-GW, MW-14-2, 7/25/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.48	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.15	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-06	Client Sample Name: JPL-GW, MW-14-2, 7/25/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.42	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	1.7	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-06	Client Sample Name: JPL-GW, MW-14-2, 7/25/2017 9:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/02/17 04:16	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-06	Client Sample Name: JPL-GW, MW-14-2, 7/25/2017 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	08/01/17	08/02/17 04:16	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-06	Client Sample Name: JPL-GW, MW-14-2, 7/25/2017 9:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.0	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/05/17 23:10	OLH	IC6	1	B[H0534

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720381-06	Client Sample Name: JPL-GW, MW-14-2, 7/25/2017 9:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00093	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	0.96	ug/L	3.0	0.50	EPA-200.8	0.54	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	07/25/17	07/25/17	21:46	JSW	KONE-1	1	B[G2222
2	EPA-200.8	08/01/17	08/02/17	12:49	MH1	PE-EL3	1	B[H0054

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-07	Client Sample Name: JPL-GW, MW-14-1, 7/25/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.28	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-07	Client Sample Name: JPL-GW, MW-14-1, 7/25/2017 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.52	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-07	Client Sample Name: JPL-GW, MW-14-1, 7/25/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.5	%	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	08/01/17	08/02/17 04:39	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-07	Client Sample Name: JPL-GW, MW-14-1, 7/25/2017 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	08/01/17	08/02/17 04:39	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-07	Client Sample Name: JPL-GW, MW-14-1, 7/25/2017 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.7	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/05/17 23:24	OLH	IC6	1	B[H0534

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720381-07	Client Sample Name: JPL-GW, MW-14-1, 7/25/2017 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00094	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	1.8	ug/L	3.0	0.50	EPA-200.8	0.54	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 22:09	JSW	KONE-1	1	B[G2222
2	EPA-200.8	08/01/17	08/02/17 12:58	MH1	PE-EL3	1	B[H0054

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-08	Client Sample Name: JPL-GW, MW-25-5, 7/25/2017 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-08	Client Sample Name: JPL-GW, MW-25-5, 7/25/2017 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-08	Client Sample Name: JPL-GW, MW-25-5, 7/25/2017 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	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	08/01/17	08/02/17 05:02	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-08	Client Sample Name: JPL-GW, MW-25-5, 7/25/2017 11:15:00AM, 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	08/01/17	08/02/17 05:02	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-08	Client Sample Name: JPL-GW, MW-25-5, 7/25/2017 11:15:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/06/17 00:05	OLH	IC6	1	B[H0534

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Tidewater Inc.
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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720381-08	Client Sample Name: JPL-GW, MW-25-5, 7/25/2017 11:15:00AM, 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	0.82	ug/L	3.0	0.50	EPA-200.8	0.54	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 22:13	JSW	KONE-1	1	B[G2222
2	EPA-200.8	08/01/17	08/01/17 22:25	MH1	PE-EL3	1	B[H0054

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-09	Client Sample Name: JPL-GW, MW-25-4, 7/25/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-09	Client Sample Name: JPL-GW, MW-25-4, 7/25/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-09	Client Sample Name: JPL-GW, MW-25-4, 7/25/2017 11:50:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	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	08/01/17	08/02/17 05:25	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-09	Client Sample Name: JPL-GW, MW-25-4, 7/25/2017 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	08/01/17	08/02/17 05:25	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-09	Client Sample Name: JPL-GW, MW-25-4, 7/25/2017 11:50:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	7.5	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/06/17 00:19	OLH	IC6	1	B[H0534

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720381-09	Client Sample Name: JPL-GW, MW-25-4, 7/25/2017 11:50:00AM, 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	2.3	ug/L	3.0	0.50	EPA-200.8	0.54	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 22:13	JSW	KONE-1	1	B[G2222
2	EPA-200.8	08/01/17	08/02/17 13:02	MH1	PE-EL3	1	B[H0054

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-10	Client Sample Name: JPL-GW, MW-25-3, 7/25/2017 12:15:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.27	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-10	Client Sample Name: JPL-GW, MW-25-3, 7/25/2017 12:15:00PM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-10	Client Sample Name: JPL-GW, MW-25-3, 7/25/2017 12:15:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	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	08/01/17	08/02/17 05:48	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-10	Client Sample Name: JPL-GW, MW-25-3, 7/25/2017 12:15:00PM, 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	08/01/17	08/02/17 05:48	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-10	Client Sample Name: JPL-GW, MW-25-3, 7/25/2017 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	8.4	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/06/17 00:33	OLH	IC6	1	B[H0534

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Tidewater Inc.
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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720381-10	Client Sample Name: JPL-GW, MW-25-3, 7/25/2017 12:15:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0033	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	4.1	ug/L	3.0	0.50	EPA-200.8	0.54		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 22:13	JSW	KONE-1	1	B[G2222
2	EPA-200.8	08/01/17	08/02/17 13:16	MH1	PE-EL3	1	B[H0054

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-11	Client Sample Name: JPL-GW, MW-25-2, 7/25/2017 12:50:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-11	Client Sample Name: JPL-GW, MW-25-2, 7/25/2017 12:50:00PM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-11	Client Sample Name: JPL-GW, MW-25-2, 7/25/2017 12:50:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	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	08/01/17	08/02/17 06:11	MGC	MS-V5	1	B[H0011

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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-11	Client Sample Name: JPL-GW, MW-25-2, 7/25/2017 12:50:00PM, 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	08/01/17	08/02/17 06:11	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-11	Client Sample Name: JPL-GW, MW-25-2, 7/25/2017 12:50:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	12	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/06/17 00:47	OLH	IC6	1	B[H0534

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Tidewater Inc.
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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720381-11	Client Sample Name: JPL-GW, MW-25-2, 7/25/2017 12:50:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0031	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	4.2	ug/L	3.0	0.50	EPA-200.8	0.54		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 22:13	JSW	KONE-1	1	B[G2222
2	EPA-200.8	08/01/17	08/01/17 22:35	MH1	PE-EL3	1	B[H0054

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-12	Client Sample Name: JPL-GW, MW-25-1, 7/25/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.85	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-12	Client Sample Name: JPL-GW, MW-25-1, 7/25/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	0.45	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	1.8	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-12	Client Sample Name: JPL-GW, MW-25-1, 7/25/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/02/17 00:03	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-12	Client Sample Name: JPL-GW, MW-25-1, 7/25/2017 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	08/01/17	08/02/17 00:03	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-12	Client Sample Name: JPL-GW, MW-25-1, 7/25/2017 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	7.2	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/06/17 01:01	OLH	IC6	1	B[H0534

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720381-12	Client Sample Name: JPL-GW, MW-25-1, 7/25/2017 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	3.1	ug/L	3.0	0.50	EPA-200.8	0.54		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 21:46	JSW	KONE-1	1	B[G2222
2	EPA-200.8	08/01/17	08/01/17 20:40	MH1	PE-EL3	1	B[H0054

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-13 Client Sample Name: JPL-GW, EB-2-072517, 7/25/2017 1:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-13	Client Sample Name: JPL-GW, EB-2-072517, 7/25/2017 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720381-13	Client Sample Name: JPL-GW, EB-2-072517, 7/25/2017 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.1	%	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	08/01/17	08/02/17 06:34	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720381-13	Client Sample Name: JPL-GW, EB-2-072517, 7/25/2017 1:30:00PM, 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	08/01/17	08/02/17 06:34	MGC	MS-V5	1	B[H0011

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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720381-13	Client Sample Name: JPL-GW, EB-2-072517, 7/25/2017 1:30:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/05/17	08/06/17 01:56	OLH	IC6	1	B[H0534

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720381-13	Client Sample Name: JPL-GW, EB-2-072517, 7/25/2017 1:30:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	EPA-200.8	0.54	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/25/17	07/25/17 22:13	JSW	KONE-1	1	B[G2222
2	EPA-200.8	08/01/17	08/01/17 22:39	MH1	PE-EL3	1	B[H0054

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Tidewater Inc.
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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011						
Benzene	B[H0011-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0011-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0011-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0011-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0011-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0011-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0011-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0011-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0011-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0011-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0011-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0011-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0011-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0011-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011						
trans-1,3-Dichloropropene	B[H0011-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0011-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0011-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0011-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0011-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0011-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0011-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0011-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0011-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0011-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0011-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0011-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0011-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0011-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0011-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0011-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0011-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0011-BLK1	ND	ug/L	4.0	1.3	

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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011						
Ethyl t-butyl ether	B[H0011-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0011-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0011-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0011-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0011-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0011-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0011-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0011-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0011-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0011-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0011-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0011-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0011-BLK1	108	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0011-BLK1	99.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0011-BLK1	92.7	%	80 - 120 (LCL - UCL)		

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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011											
Benzene	B[H0011-BS1	LCS	23.220	25.000	ug/L	92.9		70	130		
Bromodichloromethane	B[H0011-BS1	LCS	26.080	25.000	ug/L	104		70	130		
Chlorobenzene	B[H0011-BS1	LCS	23.340	25.000	ug/L	93.4		70	130		
Chloroethane	B[H0011-BS1	LCS	21.980	25.000	ug/L	87.9		70	130		
1,4-Dichlorobenzene	B[H0011-BS1	LCS	24.440	25.000	ug/L	97.8		70	130		
1,1-Dichloroethane	B[H0011-BS1	LCS	24.530	25.000	ug/L	98.1		70	130		
1,1-Dichloroethene	B[H0011-BS1	LCS	26.770	25.000	ug/L	107		70	130		
Toluene	B[H0011-BS1	LCS	25.210	25.000	ug/L	101		70	130		
Trichloroethene	B[H0011-BS1	LCS	27.390	25.000	ug/L	110		70	130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0011-BS1	LCS	10.460	10.000	ug/L	105		75	125		
Toluene-d8 (Surrogate)	B[H0011-BS1	LCS	9.7700	10.000	ug/L	97.7		80	120		
4-Bromofluorobenzene (Surrogate)	B[H0011-BS1	LCS	9.9000	10.000	ug/L	99.0		80	120		

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011		Used client sample: Y - Description: MW-25-1, 07/25/2017 13:20								
Benzene	MS	1720381-12	ND	23.750	25.000	ug/L		95.0		70 - 130
	MSD	1720381-12	ND	23.530	25.000	ug/L	0.9	94.1	20	70 - 130
Bromodichloromethane	MS	1720381-12	ND	26.260	25.000	ug/L		105		70 - 130
	MSD	1720381-12	ND	27.120	25.000	ug/L	3.2	108	20	70 - 130
Chlorobenzene	MS	1720381-12	ND	24.660	25.000	ug/L		98.6		70 - 130
	MSD	1720381-12	ND	24.160	25.000	ug/L	2.0	96.6	20	70 - 130
Chloroethane	MS	1720381-12	ND	23.500	25.000	ug/L		94.0		70 - 130
	MSD	1720381-12	ND	22.970	25.000	ug/L	2.3	91.9	20	70 - 130
1,4-Dichlorobenzene	MS	1720381-12	ND	26.460	25.000	ug/L		106		70 - 130
	MSD	1720381-12	ND	25.690	25.000	ug/L	3.0	103	20	70 - 130
1,1-Dichloroethane	MS	1720381-12	ND	25.220	25.000	ug/L		101		70 - 130
	MSD	1720381-12	ND	24.810	25.000	ug/L	1.6	99.2	20	70 - 130
1,1-Dichloroethene	MS	1720381-12	ND	27.800	25.000	ug/L		111		70 - 130
	MSD	1720381-12	ND	26.870	25.000	ug/L	3.4	107	20	70 - 130
Toluene	MS	1720381-12	ND	26.030	25.000	ug/L		104		70 - 130
	MSD	1720381-12	ND	26.300	25.000	ug/L	1.0	105	20	70 - 130
Trichloroethene	MS	1720381-12	1.8300	27.200	25.000	ug/L		101		70 - 130
	MSD	1720381-12	1.8300	27.850	25.000	ug/L	2.4	104	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1720381-12	ND	10.120	10.000	ug/L		101		75 - 125
	MSD	1720381-12	ND	9.7100	10.000	ug/L	4.1	97.1		75 - 125
Toluene-d8 (Surrogate)	MS	1720381-12	ND	9.4800	10.000	ug/L		94.8		80 - 120
	MSD	1720381-12	ND	9.8000	10.000	ug/L	3.3	98.0		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1720381-12	ND	10.370	10.000	ug/L		104		80 - 120
	MSD	1720381-12	ND	9.9500	10.000	ug/L	4.1	99.5		80 - 120

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011]						
Chloroacetonitrile	B[H0011-BLK1	0	ug/L			
1-Chlorobutane	B[H0011-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0011-BLK1	0	ug/L			
Methyl acrylate	B[H0011-BLK1	0	ug/L			
Nitrobenzene	B[H0011-BLK1	0	ug/L			
2-Nitropropane	B[H0011-BLK1	0	ug/L			

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0534						
Perchlorate	B[H0534-BLK1	ND	ug/L	4.0	0.58	

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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0534										
Perchlorate	B[H0534-BS1	LCS	9.8455	10.000	ug/L	98.5		85	115	

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0534		Used client sample: Y - Description: MW-25-1, 07/25/2017 13:20								
Perchlorate	DUP	1720381-12	7.2351	7.2646		ug/L	0.4		15	
	MS	1720381-12	7.2351	16.397	10.101	ug/L		90.7		80 - 120
	MSD	1720381-12	7.2351	16.611	10.101	ug/L	1.3	92.8	15	80 - 120

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Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2222]						
Hexavalent Chromium	B[G2222-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: B[H0054]						
Total Recoverable Chromium	B[H0054-BLK1	0.54400	ug/L	3.0	0.50	J

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2222										
Hexavalent Chromium	B[G2222-BS1	LCS	0.046163	0.050000	mg/L	92.3		85 - 115		
QC Batch ID: B[H0054										
Total Recoverable Chromium	B[H0054-BS1	LCS	39.331	40.000	ug/L	98.3		85 - 115		

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Powell, OH 43065

Reported: 08/08/2017 18:01
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2222]		Used client sample: Y - Description: MW-25-1, 07/25/2017 13:20								
Hexavalent Chromium	DUP	1720381-12	ND	ND		mg/L			10	
	MS	1720381-12	ND	0.042779	0.052632	mg/L		81.3		85 - 115 Q03
	MSD	1720381-12	ND	0.042504	0.052632	mg/L	0.6	80.8	10	85 - 115 Q03
QC Batch ID: B[H0054]		Used client sample: Y - Description: MW-25-1, 07/25/2017 13:20								
Total Recoverable Chromium	DUP	1720381-12	3.0980	2.9800		ug/L	3.9		20	J
	MS	1720381-12	3.0980	37.073	40.000	ug/L		84.9		70 - 130
	MSD	1720381-12	3.0980	36.931	40.000	ug/L	0.4	84.6	20	70 - 130

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Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 08/09/2017

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 3Q17
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1720516
Invoice ID: B275695

Enclosed are the results of analyses for samples received by the laboratory on 7/26/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Stuart Buttram
Technical Director

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

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Chain of Custody Form



BC Laboratories, Inc.

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***Required Fields**

Report To: Tidewater, Inc.
 Client: David Conner
 Attn: David Conner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 626 288-5715 Fax: 614 792-2897
 Email Address: david.conner@tideh2o.net
 Submission #: 17-20516

Project Description: JPL-GW Monitoring
 Project Code: 3Q17
 Sampler(s): Blaine Tech
Think Heavy

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-3-072617	07/26/17	0700	GW
-2	MW-17-4		0735	GW
-3	MW-17-3		0805	GW
-4	MW-17-2		0835	GW
-5	MW-3-4		0935	GW
-6	MW-3-3		1015	GW
-7	MW-3-2		1050	GW
-8	MW-18-6		1230	GW
-9	MW-18-4		1310	GW
-10	MW-18-3		1335	GW
-11	MW-18-2		1400	GW

Analysis Requested

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

Billing

Client: The Bodhi Group
 Attn: Sree Gopinath
 Address: 5480 Baltimore Drive, Suite 209
 City: La Mesa State: CA Zip: 91944

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

*Standard Turnaround = 10

Notes

AV SHORT HOLDING TIME
 (C) NO₂ NO₃ OP SS
 DO Cl₂ BOD MBAS COT
 MS/MSD
 CHICK BY DISTRIBUTION
 698
 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

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:	Date	Time	Global ID:
<i>[Signature]</i>	07/26/17	1435	7-16-17 (44)
2. Relinquished By:	Date	Time	Date
<i>[Signature]</i>	7-26-17	1400	7-16 1920
3. Relinquished By:	Date	Time	Date

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: * JPL-GW Monitoring
 Attn: * David Conner Project Code: * 3Q17
 Street Address: * 3761 Attucks Drive State: * OH Zip: * 43065
 City: * Powell Phone: * 626) 298 - 5715 Fax: 614) 792 - 2897
 Email Address: david.conner@tide2o.net
 Submission #: 17.20510

Sampler(s): * Blaine Tech
Harsh Hooves

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	XX

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: _____ Date: 07/20/17 Time: 1435
 2. Relinquished By: _____ Date: 7-26-17 Time: 1920
 3. Relinquished By: _____ Date: _____ Time: _____

Global ID:
 1. Received By: _____ Date: 7-26-17 Time: 1440
 2. Received By: _____ Date: 7-26-17 Time: 1920
 3. Received By: _____ Date: _____ Time: _____

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)

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

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 2

Submission #: 17.20516

SHIPPING INFORMATION
Fed Ex [] UPS [] Ontrac [] Hand Delivery []
BC Lab Field Service [x] Other [] (Specify)

SHIPPING CONTAINER
Ice Chest [x] None [] Box []
Other [] (Specify)

FREE LIQUID
YES [] NO []
W / S

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments:

Custody Seals Ice Chest [] Containers [] None [x] Comments:
Intact? Yes [] No [] Intact? Yes [] No []

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

COC Received
YES [x] NO []

Emissivity: 0.95 Container: PE Thermometer ID: 208

Date/Time 7/20/17 1924

Temperature: (A) 0.2 °C / (C) 0.5 °C

Analyst Init RNR

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT PE UNPRES, INORGANIC CHEMICAL METALS, etc.

Comments:
Sample Numbering Completed By:
A = Actual / C = Corrected

Date/Time: 7-20-2017



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 2

Submission #: 17 20516

SHIPPING INFORMATION
Fed Ex [] UPS [] Ontrac [] Hand Delivery []
BC Lab Field Service [x] Other [] (Specify) _____

SHIPPING CONTAINER
Ice Chest [x] None [] Box []
Other [] (Specify) _____

FREE LIQUID
YES [] NO []
(W) / S

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments: _____

Custody Seals Ice Chest [] Containers [] None [x]
Intact? Yes [] No [] Intact? Yes [] No []

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

COC Received YES [x] NO [] Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/20/17 1924
Temperature: (A) 0.1 C (C) 0.4 C Analyst Init RNR

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT PE UNPRES, INORGANIC CHEMICAL METALS, etc. with handwritten entries in columns 1 and 10.

Comments: _____
Sample Numbering Completed By: [Signature] Date/Time: 7-20-2016 Rev 21 05/23/2016
A = Actual / C = Corrected [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20]



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720516-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-3-072617 Sampled By: Blaine Tech of BAT	Receive Date: 07/26/2017 19:20 Sampling Date: 07/26/2017 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-3-072617 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720516-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/26/2017 19:20 Sampling Date: 07/26/2017 07:35 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720516-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/26/2017 19:20 Sampling Date: 07/26/2017 08:05 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720516-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/26/2017 19:20 Sampling Date: 07/26/2017 08:35 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720516-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-3-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/26/2017 19:20 Sampling Date: 07/26/2017 09:35 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1720516-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-3-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/26/2017 19:20 Sampling Date: 07/26/2017 10:15 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater 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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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720516-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-3-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/26/2017 19:20 Sampling Date: 07/26/2017 10:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1720516-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-5 Sampled By: Blaine Tech of BAT	Receive Date: 07/26/2017 19:20 Sampling Date: 07/26/2017 12:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720516-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/26/2017 19:20 Sampling Date: 07/26/2017 13:10 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater 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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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720516-10	COC Number: ---	Receive Date: 07/26/2017 19:20
	Project Number: JPL-GW	Sampling Date: 07/26/2017 13:35
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-18-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-18-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1720516-11	COC Number: ---	Receive Date: 07/26/2017 19:20
	Project Number: JPL-GW	Sampling Date: 07/26/2017 14:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-18-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-18-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1720516-12	COC Number: ---	Receive Date: 07/26/2017 19:20
	Project Number: JPL-GW	Sampling Date: 07/26/2017 14:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: EB-3-072617	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): EB-3-072617
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-01	Client Sample Name: JPL-GW, TB-3-072617, 7/26/2017 7:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-01	Client Sample Name: JPL-GW, TB-3-072617, 7/26/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-01	Client Sample Name: JPL-GW, TB-3-072617, 7/26/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.2	%	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	08/02/17	08/02/17 18:51	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-01	Client Sample Name: JPL-GW, TB-3-072617, 7/26/2017 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	08/02/17	08/02/17 18:51	MGC	MS-V5	1	B[H0122

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-02	Client Sample Name: JPL-GW, MW-17-4, 7/26/2017 7:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.14	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-02	Client Sample Name: JPL-GW, MW-17-4, 7/26/2017 7:35:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.43	ug/L	0.50	0.19	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-02	Client Sample Name: JPL-GW, MW-17-4, 7/26/2017 7:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	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	08/02/17	08/02/17 19:14	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-02	Client Sample Name: JPL-GW, MW-17-4, 7/26/2017 7:35:00AM, 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	08/02/17	08/02/17 19:14	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720516-02	Client Sample Name: JPL-GW, MW-17-4, 7/26/2017 7:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	0.91	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/06/17	08/07/17 11:02	OLH	IC6	1	B[H0537

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720516-02	Client Sample Name: JPL-GW, MW-17-4, 7/26/2017 7:35:00AM, 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	0.54	ug/L	3.0	0.50	EPA-200.8	1.1	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/26/17	07/26/17 22:56	RCC	KONE-1	1	B[G2345
2	EPA-200.8	08/02/17	08/07/17 16:03	MH1	PE-EL2	1	B[H0160

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-03	Client Sample Name: JPL-GW, MW-17-3, 7/26/2017 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.29	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.15	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-03	Client Sample Name: JPL-GW, MW-17-3, 7/26/2017 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.30	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	1.4	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-03	Client Sample Name: JPL-GW, MW-17-3, 7/26/2017 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/02/17 23:26	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-03	Client Sample Name: JPL-GW, MW-17-3, 7/26/2017 8:05:00AM, 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	08/02/17	08/02/17 23:26	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720516-03	Client Sample Name: JPL-GW, MW-17-3, 7/26/2017 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.6	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/06/17	08/07/17 11:15	OLH	IC6	1	B[H0537

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720516-03	Client Sample Name: JPL-GW, MW-17-3, 7/26/2017 8:05:00AM, 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	1.1		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/26/17	07/26/17 22:56	RCC	KONE-1	1	B[G2345
2	EPA-200.8	08/02/17	08/07/17 16:07	MH1	PE-EL2	1	B[H0160

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-04	Client Sample Name: JPL-GW, MW-17-2, 7/26/2017 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-04	Client Sample Name: JPL-GW, MW-17-2, 7/26/2017 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-04	Client Sample Name: JPL-GW, MW-17-2, 7/26/2017 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.2	%	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	08/02/17	08/02/17 23:49	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-04	Client Sample Name: JPL-GW, MW-17-2, 7/26/2017 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/02/17 23:49	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720516-04	Client Sample Name: JPL-GW, MW-17-2, 7/26/2017 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/06/17	08/07/17 11:29	OLH	IC6	1	B[H0537

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720516-04	Client Sample Name: JPL-GW, MW-17-2, 7/26/2017 8:35:00AM, 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	1.1		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	07/26/17	07/26/17 22:56	RCC	KONE-1	1	B[G2345
2	EPA-200.8	08/02/17	08/07/17 16:10	MH1	PE-EL2	1	B[H0160

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Tidewater Inc.
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Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-05	Client Sample Name: JPL-GW, MW-3-4, 7/26/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-05	Client Sample Name: JPL-GW, MW-3-4, 7/26/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-05	Client Sample Name: JPL-GW, MW-3-4, 7/26/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	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	08/02/17	08/03/17 00:12	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-05	Client Sample Name: JPL-GW, MW-3-4, 7/26/2017 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	08/02/17	08/03/17 00:12	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720516-05	Client Sample Name: JPL-GW, MW-3-4, 7/26/2017 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	0.95	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/06/17	08/07/17 11:43	OLH	IC6	1	B[H0537

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720516-05	Client Sample Name: JPL-GW, MW-3-4, 7/26/2017 9:35:00AM, 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	38	ug/L	3.0	0.50	EPA-200.8	1.1		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/26/17	07/26/17 23:33	RCC	KONE-1	1	B[G2345
2	EPA-200.8	08/02/17	08/07/17 16:14	MH1	PE-EL2	1	B[H0160

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-06	Client Sample Name: JPL-GW, MW-3-3, 7/26/2017 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.31	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-06	Client Sample Name: JPL-GW, MW-3-3, 7/26/2017 10:15:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.27	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-06	Client Sample Name: JPL-GW, MW-3-3, 7/26/2017 10:15:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/02/17 18:28	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-06	Client Sample Name: JPL-GW, MW-3-3, 7/26/2017 10:15:00AM, 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	08/02/17	08/02/17 18:28	MGC	MS-V5	1	B[H0122

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Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720516-06	Client Sample Name: JPL-GW, MW-3-3, 7/26/2017 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	0.95	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/06/17	08/07/17 11:57	OLH	IC6	1	B[H0537

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720516-06	Client Sample Name: JPL-GW, MW-3-3, 7/26/2017 10:15:00AM, 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	ND	J	1
Total Recoverable Chromium	2.4	ug/L	3.0	0.50	EPA-200.8	1.1	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/26/17	07/26/17 22:40	RCC	KONE-1	1	B[G2345
2	EPA-200.8	08/02/17	08/07/17 15:34	MH1	PE-EL2	1	B[H0160

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Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-07	Client Sample Name: JPL-GW, MW-3-2, 7/26/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-07	Client Sample Name: JPL-GW, MW-3-2, 7/26/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-07	Client Sample Name: JPL-GW, MW-3-2, 7/26/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.1	%	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	08/02/17	08/03/17 00:35	MGC	MS-V5	1	B[H0122

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-07	Client Sample Name: JPL-GW, MW-3-2, 7/26/2017 10:50:00AM, 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	08/02/17	08/03/17 00:35	MGC	MS-V5	1	B[H0122

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720516-07	Client Sample Name: JPL-GW, MW-3-2, 7/26/2017 10:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.2	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/06/17	08/07/17 13:20	OLH	IC6	1	B[H0537

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720516-07	Client Sample Name: JPL-GW, MW-3-2, 7/26/2017 10:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	1.1		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/26/17	07/26/17 22:56	RCC	KONE-1	1	B[G2345
2	EPA-200.8	08/02/17	08/07/17 16:17	MH1	PE-EL2	1	B[H0160

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-08	Client Sample Name: JPL-GW, MW-18-5, 7/26/2017 12:30:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-08	Client Sample Name: JPL-GW, MW-18-5, 7/26/2017 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-08	Client Sample Name: JPL-GW, MW-18-5, 7/26/2017 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/03/17 00:58	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-08	Client Sample Name: JPL-GW, MW-18-5, 7/26/2017 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/03/17 00:58	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720516-08	Client Sample Name: JPL-GW, MW-18-5, 7/26/2017 12:30:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/06/17	08/06/17 20:50	OLH	IC6	1	B[H0537

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-09	Client Sample Name: JPL-GW, MW-18-4, 7/26/2017 1:10:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	1.2	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.52	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-09	Client Sample Name: JPL-GW, MW-18-4, 7/26/2017 1:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.49	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.69	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-09	Client Sample Name: JPL-GW, MW-18-4, 7/26/2017 1:10:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/03/17 01:21	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-09	Client Sample Name: JPL-GW, MW-18-4, 7/26/2017 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	08/02/17	08/03/17 01:21	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720516-09	Client Sample Name: JPL-GW, MW-18-4, 7/26/2017 1:10:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	14	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/06/17	08/06/17 21:04	OLH	IC6	1	B[H0537

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720516-09	Client Sample Name: JPL-GW, MW-18-4, 7/26/2017 1:10:00PM, 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	2.0	ug/L	3.0	0.50	EPA-200.8	1.1	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/26/17	07/26/17 22:56	RCC	KONE-1	1	B[G2345
2	EPA-200.8	08/02/17	08/07/17 16:21	MH1	PE-EL2	1	B[H0160

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Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-10	Client Sample Name: JPL-GW, MW-18-3, 7/26/2017 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	0.59	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.16	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-10	Client Sample Name: JPL-GW, MW-18-3, 7/26/2017 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-10	Client Sample Name: JPL-GW, MW-18-3, 7/26/2017 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	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	08/02/17	08/03/17 01:44	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-10	Client Sample Name: JPL-GW, MW-18-3, 7/26/2017 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/03/17 01:44	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720516-10	Client Sample Name: JPL-GW, MW-18-3, 7/26/2017 1:35:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.3	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/06/17	08/06/17 21:31	OLH	IC6	1	B[H0537

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720516-10	Client Sample Name: JPL-GW, MW-18-3, 7/26/2017 1:35:00PM, 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	2.1	ug/L	3.0	0.50	EPA-200.8	1.1	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/26/17	07/26/17 22:56	RCC	KONE-1	1	B[G2345
2	EPA-200.8	08/02/17	08/07/17 16:24	MH1	PE-EL2	1	B[H0160

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Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-11	Client Sample Name: JPL-GW, MW-18-2, 7/26/2017 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-11	Client Sample Name: JPL-GW, MW-18-2, 7/26/2017 2:00:00PM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-11	Client Sample Name: JPL-GW, MW-18-2, 7/26/2017 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/03/17 02:07	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-11	Client Sample Name: JPL-GW, MW-18-2, 7/26/2017 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/03/17 02:07	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720516-11	Client Sample Name: JPL-GW, MW-18-2, 7/26/2017 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/06/17	08/06/17 21:59	OLH	IC6	1	B[H0537

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720516-11	Client Sample Name: JPL-GW, MW-18-2, 7/26/2017 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	1.1		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/26/17	07/26/17 22:56	RCC	KONE-1	1	B[G2345
2	EPA-200.8	08/02/17	08/07/17 16:28	MH1	PE-EL2	1	B[H0160

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Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-12	Client Sample Name: JPL-GW, EB-3-072617, 7/26/2017 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-12	Client Sample Name: JPL-GW, EB-3-072617, 7/26/2017 2:15:00PM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720516-12	Client Sample Name: JPL-GW, EB-3-072617, 7/26/2017 2:15:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/03/17 02:30	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720516-12	Client Sample Name: JPL-GW, EB-3-072617, 7/26/2017 2:15:00PM, 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	08/02/17	08/03/17 02:30	MGC	MS-V5	1	B[H0122

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720516-12	Client Sample Name: JPL-GW, EB-3-072617, 7/26/2017 2:15:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/06/17	08/06/17 22:13	OLH	IC6	1	B[H0537

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720516-12	Client Sample Name: JPL-GW, EB-3-072617, 7/26/2017 2:15:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	0.51	ug/L	3.0	0.50	EPA-200.8	1.1	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	07/26/17	07/26/17 22:56	RCC	KONE-1	1	B[G2345
2	EPA-200.8	08/02/17	08/07/17 16:31	MH1	PE-EL2	1	B[H0160

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0122]						
Benzene	B[H0122-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0122-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0122-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0122-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0122-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0122-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0122-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0122-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0122-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0122-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0122-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0122-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0122-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0122-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0122-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0122-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B[H0122-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0122-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0122-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0122-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0122-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0122-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0122-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0122-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0122-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0122-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0122-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0122-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0122-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0122-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0122-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0122-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0122-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0122-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0122]						
trans-1,3-Dichloropropene	B[H0122-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0122-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0122-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0122-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0122-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0122-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0122-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0122-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0122-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0122-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0122-BLK1	ND	ug/L	0.50	0.21	
1,1,2,2-Tetrachloroethane	B[H0122-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B[H0122-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0122-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0122-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0122-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B[H0122-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0122-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0122-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0122-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0122-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0122-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0122-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0122-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0122-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0122-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0122-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0122-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0122-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0122-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0122-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0122-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0122-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0122-BLK1	ND	ug/L	4.0	1.3	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0122]						
Ethyl t-butyl ether	B[H0122-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0122-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0122-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0122-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0122-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0122-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0122-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0122-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0122-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0122-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0122-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0122-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0122-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0122-BLK1	101	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0122-BLK1	97.2	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0122-BLK1	95.1	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0122										
Benzene	B[H0122-BS1	LCS	23.060	25.000	ug/L	92.2		70 - 130		
Bromodichloromethane	B[H0122-BS1	LCS	24.800	25.000	ug/L	99.2		70 - 130		
Chlorobenzene	B[H0122-BS1	LCS	22.260	25.000	ug/L	89.0		70 - 130		
Chloroethane	B[H0122-BS1	LCS	23.210	25.000	ug/L	92.8		70 - 130		
1,4-Dichlorobenzene	B[H0122-BS1	LCS	24.090	25.000	ug/L	96.4		70 - 130		
1,1-Dichloroethane	B[H0122-BS1	LCS	24.680	25.000	ug/L	98.7		70 - 130		
1,1-Dichloroethene	B[H0122-BS1	LCS	26.650	25.000	ug/L	107		70 - 130		
Toluene	B[H0122-BS1	LCS	24.300	25.000	ug/L	97.2		70 - 130		
Trichloroethene	B[H0122-BS1	LCS	25.850	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0122-BS1	LCS	11.050	10.000	ug/L	110		75 - 125		
Toluene-d8 (Surrogate)	B[H0122-BS1	LCS	9.8700	10.000	ug/L	98.7		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0122-BS1	LCS	10.290	10.000	ug/L	103		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0122]		Used client sample: Y - Description: MW-3-3, 07/26/2017 10:15								
Benzene	MS	1720516-06	ND	25.360	25.000	ug/L		101		70 - 130
	MSD	1720516-06	ND	22.360	25.000	ug/L	12.6	89.4	20	70 - 130
Bromodichloromethane	MS	1720516-06	ND	27.410	25.000	ug/L		110		70 - 130
	MSD	1720516-06	ND	25.500	25.000	ug/L	7.2	102	20	70 - 130
Chlorobenzene	MS	1720516-06	ND	25.030	25.000	ug/L		100		70 - 130
	MSD	1720516-06	ND	23.510	25.000	ug/L	6.3	94.0	20	70 - 130
Chloroethane	MS	1720516-06	ND	25.280	25.000	ug/L		101		70 - 130
	MSD	1720516-06	ND	22.290	25.000	ug/L	12.6	89.2	20	70 - 130
1,4-Dichlorobenzene	MS	1720516-06	ND	27.310	25.000	ug/L		109		70 - 130
	MSD	1720516-06	ND	25.010	25.000	ug/L	8.8	100	20	70 - 130
1,1-Dichloroethane	MS	1720516-06	0.31000	27.180	25.000	ug/L		107		70 - 130
	MSD	1720516-06	0.31000	24.180	25.000	ug/L	11.7	95.5	20	70 - 130
1,1-Dichloroethene	MS	1720516-06	ND	29.090	25.000	ug/L		116		70 - 130
	MSD	1720516-06	ND	25.700	25.000	ug/L	12.4	103	20	70 - 130
Toluene	MS	1720516-06	ND	27.180	25.000	ug/L		109		70 - 130
	MSD	1720516-06	ND	25.240	25.000	ug/L	7.4	101	20	70 - 130
Trichloroethene	MS	1720516-06	ND	28.170	25.000	ug/L		113		70 - 130
	MSD	1720516-06	ND	25.760	25.000	ug/L	8.9	103	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1720516-06	ND	10.480	10.000	ug/L		105		75 - 125
	MSD	1720516-06	ND	10.180	10.000	ug/L	2.9	102		75 - 125
Toluene-d8 (Surrogate)	MS	1720516-06	ND	9.9200	10.000	ug/L		99.2		80 - 120
	MSD	1720516-06	ND	10.040	10.000	ug/L	1.2	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1720516-06	ND	9.7900	10.000	ug/L		97.9		80 - 120
	MSD	1720516-06	ND	10.270	10.000	ug/L	4.8	103		80 - 120

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0122]						
Chloroacetonitrile	B[H0122-BLK1	0	ug/L			
1-Chlorobutane	B[H0122-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0122-BLK1	0	ug/L			
Methyl acrylate	B[H0122-BLK1	0	ug/L			
Nitrobenzene	B[H0122-BLK1	0	ug/L			
2-Nitropropane	B[H0122-BLK1	0	ug/L			

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0537]						
Perchlorate	B[H0537-BLK1	ND	ug/L	4.0	0.58	

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0537										
Perchlorate	B[H0537-BS1	LCS	10.637	10.000	ug/L	106		85 - 115		

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0537		Used client sample: Y - Description: MW-3-3, 07/26/2017 10:15									
Perchlorate	DUP	720516-06RE'	0.95160	1.0424		ug/L	9.1		15		J
	MS	720516-06RE'	0.95160	10.620	10.101	ug/L		95.7		80 - 120	
	MSD	720516-06RE'	0.95160	10.320	10.101	ug/L	2.9	92.7	15	80 - 120	

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2345]						
Hexavalent Chromium	B[G2345-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: B[H0160]						
Total Recoverable Chromium	B[H0160-BLK1	1.1320	ug/L	3.0	0.50	J

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2345										
Hexavalent Chromium	B[G2345-BS1	LCS	0.050123	0.050000	mg/L	100		85 - 115		
QC Batch ID: B[H0160										
Total Recoverable Chromium	B[H0160-BS1	LCS	45.339	40.000	ug/L	113		85 - 115		

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Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2345]		Used client sample: Y - Description: MW-3-3, 07/26/2017 10:15								
Hexavalent Chromium	DUP	1720516-06	0.0013190	0.0013460		mg/L	2.0		10	J
	MS	1720516-06	0.0013190	0.054812	0.052632	mg/L		102	85 - 115	
	MSD	1720516-06	0.0013190	0.054973	0.052632	mg/L	0.3	102	10	85 - 115
QC Batch ID: B[H0160]		Used client sample: Y - Description: MW-3-3, 07/26/2017 10:15								
Total Recoverable Chromium	DUP	1720516-06	2.3910	2.5120		ug/L	4.9		20	J
	MS	1720516-06	2.3910	41.308	40.000	ug/L		97.3	70 - 130	
	MSD	1720516-06	2.3910	41.194	40.000	ug/L	0.3	97.0	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 14:45
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.

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Date of Report: 08/09/2017

David Conner

Tidewater Inc.

3761 Attucks Drive

Powell, OH 43065

Client Project: 3Q17

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 1720687

Invoice ID: B275758

Enclosed are the results of analyses for samples received by the laboratory on 7/27/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form

BC Laboratories, Inc.

Page 1 of 1

***Required Fields**

Report To: Tidewater, Inc.
 Client: David Conner
 Attn: David Conner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: (626) 298-5715 Fax: (614) 792-2897
 Email Address: david.conner@tideh2o.net
 Submission #: 17-20687

Project Description: JPL-GW Monitoring
 Project Code: 3Q17
 Sampler(s): Blaine Tech

Client: The Bodhi Group
 Attn: Stree Gopinath
 Address: 5480 Ballimore Drive, Suite 209
 City: La Mesa State: CA Zip: 91946
 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)	Notes
-1	TB-4-072717	07/27/17	0700	GW	X	X	X	X	X	X	X	Level IV
-2	MW-22-3		0725	GW	X	X	X	X	X	X	X	Level IV
-3	MW-22-2		0750	GW	X	X	X	X	X	X	X	Level IV
-4	MW-22-1		0820	GW	X	X	X	X	X	X	X	Level IV
-5	MW-24-4		0935	GW	X	X	X	X	X	X	X	Level IV
-6	MW-24-3		1000	GW	X	X	X	X	X	X	X	Level IV
-7	MW-24-2		1025	GW	X	X	X	X	X	X	X	Level IV
-8	MW-24-1		1100	GW	X	X	X	X	X	X	X	Level IV
-9	FB-4-072717		1130	GW	X	X	X	X	X	X	X	Level IV

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

Global ID: _____

1. Relinquished By: _____ Date: 07/27/17 Time: 12:17 PM
 2. Relinquished By: _____ Date: 7/27/17 Time: 3:45 PM
 3. Relinquished By: _____ Date: 7/27/17 Time: 7:27 PM

Cost Center: _____
 1. Relinquished By: _____ Date: 07/27/17 Time: 12:17 PM
 2. Relinquished By: _____ Date: 7/27/17 Time: 3:45 PM
 3. Relinquished By: _____ Date: 7/27/17 Time: 7:27 PM

Comments:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR GC (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 93306 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 17-20687

SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <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"/> <u>(W)</u> / S	
---	--	---	--	--	--

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received YES NO Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/27/17 20:05
 Temperature: (A) 0.5 °C / (C) 0.9 °C Analyst Init RNR

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		D	D	D	A	D	D	D	D	
4oz / 8oz / 16oz PE UNPRES								E		
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		E	D	E	E	B	E	E	F	E
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK		A	ABC	ABC	ABC		ABC	ABC	ABC	ABC
40ml VOA VIAL TB		A								
QT EPA 1664										
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 EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: M/RNR Date/Time: 7/27/17 21:12 Rev 21 05/23/2016
 A = Actual / C = Corrected (S:\WPDoc\WordPerfect\LAB_DOC\IFORMS\ISAMRECrev 20)



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720687-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-4-072717 Sampled By: Blaine Tech of BAT	Receive Date: 07/27/2017 20:15 Sampling Date: 07/27/2017 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-4-072717 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720687-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/27/2017 20:15 Sampling Date: 07/27/2017 07:25 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720687-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/27/2017 20:15 Sampling Date: 07/27/2017 07:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720687-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/27/2017 20:15 Sampling Date: 07/27/2017 08:20 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1720687-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/27/2017 20:15 Sampling Date: 07/27/2017 09:35 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater 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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1720687-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/27/2017 20:15 Sampling Date: 07/27/2017 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720687-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/27/2017 20:15 Sampling Date: 07/27/2017 10:25 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1720687-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/27/2017 20:15 Sampling Date: 07/27/2017 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720687-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-4-072717 Sampled By: Blaine Tech of BAT	Receive Date: 07/27/2017 20:15 Sampling Date: 07/27/2017 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-4-072717 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-01	Client Sample Name: JPL-GW, TB-4-072717, 7/27/2017 7:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-01	Client Sample Name: JPL-GW, TB-4-072717, 7/27/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-01	Client Sample Name: JPL-GW, TB-4-072717, 7/27/2017 7:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/01/17 20:13	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720687-01 **Client Sample Name:** JPL-GW, TB-4-072717, 7/27/2017 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	08/01/17	08/01/17 20:13	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-02	Client Sample Name: JPL-GW, MW-22-3, 7/27/2017 7:25:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-02	Client Sample Name: JPL-GW, MW-22-3, 7/27/2017 7:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-02	Client Sample Name: JPL-GW, MW-22-3, 7/27/2017 7:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/01/17 20:36	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720687-02	Client Sample Name: JPL-GW, MW-22-3, 7/27/2017 7:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/01/17 20:36	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720687-02	Client Sample Name: JPL-GW, MW-22-3, 7/27/2017 7:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/17	08/09/17 11:41	OLH	IC6	1	B[H0834

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720687-02	Client Sample Name: JPL-GW, MW-22-3, 7/27/2017 7:25:00AM, 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	3.1	ug/L	3.0	0.50	EPA-200.8	0.52		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	07/27/17	07/27/17 21:57	JSW	KONE-1	1	B[G2467
2	EPA-200.8	08/02/17	08/03/17 20:29	MH1	PE-EL3	1	B[H0163

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-03	Client Sample Name: JPL-GW, MW-22-2, 7/27/2017 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-03	Client Sample Name: JPL-GW, MW-22-2, 7/27/2017 7:50:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-03	Client Sample Name: JPL-GW, MW-22-2, 7/27/2017 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	93.7	%	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	08/01/17	08/01/17 20:59	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720687-03	Client Sample Name: JPL-GW, MW-22-2, 7/27/2017 7:50:00AM, 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	08/01/17	08/01/17 20:59	MGC	MS-V5	1	B[H0010

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720687-03	Client Sample Name: JPL-GW, MW-22-2, 7/27/2017 7:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.3	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/17	08/09/17 11:55	OLH	IC6	1	B[H0834

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720687-03	Client Sample Name: JPL-GW, MW-22-2, 7/27/2017 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0013	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	3.2	ug/L	3.0	0.50	EPA-200.8	0.52		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/27/17	07/27/17 22:16	JSW	KONE-1	1	B[G2467
2	EPA-200.8	08/02/17	08/04/17 04:20	MH1	PE-EL3	1	B[H0163

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-04	Client Sample Name: JPL-GW, MW-22-1, 7/27/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.27	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-04	Client Sample Name: JPL-GW, MW-22-1, 7/27/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.72	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-04	Client Sample Name: JPL-GW, MW-22-1, 7/27/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.5	%	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	08/01/17	08/02/17 06:57	MGC	MS-V5	1	B[H0010

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720687-04	Client Sample Name: JPL-GW, MW-22-1, 7/27/2017 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	08/01/17	08/02/17 06:57	MGC	MS-V5	1	B[H0010

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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720687-04	Client Sample Name: JPL-GW, MW-22-1, 7/27/2017 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.6	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/17	08/09/17 12:09	OLH	IC6	1	B[H0834

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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720687-04	Client Sample Name: JPL-GW, MW-22-1, 7/27/2017 8:20:00AM, 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	2.5	ug/L	3.0	0.50	EPA-200.8	0.52	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/27/17	07/27/17 22:16	JSW	KONE-1	1	B[G2467
2	EPA-200.8	08/02/17	08/04/17 04:24	MH1	PE-EL3	1	B[H0163

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720687-05	Client Sample Name: JPL-GW, MW-24-4, 7/27/2017 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	2.2	ug/L	3.0	0.50	EPA-200.8	0.52	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/27/17	07/27/17 22:16	JSW	KONE-1	1	B[G2467
2	EPA-200.8	08/02/17	08/04/17 04:27	MH1	PE-EL3	1	B[H0163

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-06	Client Sample Name: JPL-GW, MW-24-3, 7/27/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-06	Client Sample Name: JPL-GW, MW-24-3, 7/27/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-06	Client Sample Name: JPL-GW, MW-24-3, 7/27/2017 10:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	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	08/01/17	08/02/17 07:20	MGC	MS-V5	1	B[H0011

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3761 Attucks Drive
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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720687-06	Client Sample Name: JPL-GW, MW-24-3, 7/27/2017 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/02/17 07:20	MGC	MS-V5	1	B[H0011

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720687-06	Client Sample Name: JPL-GW, MW-24-3, 7/27/2017 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/17	08/09/17 12:22	OLH	IC6	1	B[H0834

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720687-06	Client Sample Name: JPL-GW, MW-24-3, 7/27/2017 10:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.3	ug/L	3.0	0.50	EPA-200.8	0.52	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/27/17	07/27/17 22:16	JSW	KONE-1	1	B[G2467
2	EPA-200.8	08/02/17	08/04/17 04:31	MH1	PE-EL3	1	B[H0163

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-07	Client Sample Name: JPL-GW, MW-24-2, 7/27/2017 10:25:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.16	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.16	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-07	Client Sample Name: JPL-GW, MW-24-2, 7/27/2017 10:25:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-07	Client Sample Name: JPL-GW, MW-24-2, 7/27/2017 10:25:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/02/17 07:43	MGC	MS-V5	1	B[H0011

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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720687-07	Client Sample Name: JPL-GW, MW-24-2, 7/27/2017 10:25:00AM, 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	08/01/17	08/02/17 07:43	MGC	MS-V5	1	B[H0011

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720687-07	Client Sample Name: JPL-GW, MW-24-2, 7/27/2017 10:25:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.9	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/17	08/09/17 12:36	OLH	IC6	1	B[H0834

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720687-07	Client Sample Name: JPL-GW, MW-24-2, 7/27/2017 10:25:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0018	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	3.9	ug/L	3.0	0.50	EPA-200.8	0.52		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/27/17	07/27/17 22:16	JSW	KONE-1	1	B[G2467
2	EPA-200.8	08/02/17	08/04/17 04:34	MH1	PE-EL3	1	B[H0163

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-08	Client Sample Name: JPL-GW, MW-24-1, 7/27/2017 11:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	1.0	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-08	Client Sample Name: JPL-GW, MW-24-1, 7/27/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-08	Client Sample Name: JPL-GW, MW-24-1, 7/27/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.5	%	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	08/01/17	08/02/17 08:06	MGC	MS-V5	1	B[H0011

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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720687-08	Client Sample Name: JPL-GW, MW-24-1, 7/27/2017 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	08/01/17	08/02/17 08:06	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720687-08	Client Sample Name: JPL-GW, MW-24-1, 7/27/2017 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	85	mg/L	0.50	0.077	EPA-300.0	ND		1
Nitrate as N	1.4	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	53	mg/L	1.0	0.13	EPA-300.0	ND		1
Nitrite as N	0.010	mg/L	0.050	0.010	EPA-353.2	ND	J	2
Perchlorate	12	ug/L	4.0	0.58	EPA-314.0	ND		3
ortho-Phosphate as P	ND	mg/L	0.050	0.017	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/27/17	07/28/17 10:53	OLH	IC8	1	B[G2423
2	EPA-353.2	07/28/17	07/28/17 07:52	RCC	KONE-1	1	B[G2625
3	EPA-314.0	08/08/17	08/09/17 12:50	OLH	IC6	1	B[H0834
4	EPA-365.1	07/28/17	07/28/17 08:50	RCC	KONE-1	1	B[G2615

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720687-08	Client Sample Name: JPL-GW, MW-24-1, 7/27/2017 11:00:00AM, 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	4.6	ug/L	3.0	0.50	EPA-200.8	0.52		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/27/17	07/27/17 22:16	JSW	KONE-1	1	B[G2467
2	EPA-200.8	08/02/17	08/04/17 04:37	MH1	PE-EL3	1	B[H0163

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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-09	Client Sample Name: JPL-GW, EB-4-072717, 7/27/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	1720687-09	Client Sample Name:	JPL-GW, EB-4-072717, 7/27/2017 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	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720687-09	Client Sample Name: JPL-GW, EB-4-072717, 7/27/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	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	08/01/17	08/02/17 08:29	MGC	MS-V5	1	B[H0011

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720687-09	Client Sample Name: JPL-GW, EB-4-072717, 7/27/2017 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	08/01/17	08/02/17 08:29	MGC	MS-V5	1	B[H0011

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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720687-09	Client Sample Name: JPL-GW, EB-4-072717, 7/27/2017 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/08/17	08/09/17 13:04	OLH	IC6	1	B[H0834

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720687-09	Client Sample Name: JPL-GW, EB-4-072717, 7/27/2017 11:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	0.52	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/27/17	07/27/17 22:16	JSW	KONE-1	1	B[G2467
2	EPA-200.8	08/02/17	08/04/17 04:41	MH1	PE-EL3	1	B[H0163

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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010]						
Benzene	B[H0010-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0010-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0010-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0010-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0010-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0010-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0010-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0010-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0010-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0010-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B[H0010-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0010-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0010-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0010-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0010-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0010-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0010-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0010-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0010-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0010-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0010-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0010-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0010-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010]						
trans-1,3-Dichloropropene	B[H0010-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0010-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0010-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0010-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0010-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0010-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0010-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0010-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0010-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0010-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0010-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0010-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0010-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0010-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0010-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0010-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0010-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0010-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0010-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0010-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0010-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0010-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0010-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0010-BLK1	ND	ug/L	4.0	1.3	

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010]

Ethyl t-butyl ether	B[H0010-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0010-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0010-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0010-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0010-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0010-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0010-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0010-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0010-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0010-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0010-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0010-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0010-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0010-BLK1	110	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0010-BLK1	98.3	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0010-BLK1	96.8	%	80 - 120 (LCL - UCL)		

QC Batch ID: B[H0011]

Benzene	B[H0011-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0011-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0011-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0011-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0011-BLK1	ND	ug/L	0.50	0.093	

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011						
Dibromochloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0011-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0011-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0011-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0011-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0011-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0011-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0011-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0011-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B[H0011-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0011-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0011-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0011-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0011-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	

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Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011]						
1,1,1-Trichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0011-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0011-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0011-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0011-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0011-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0011-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0011-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0011-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0011-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0011-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0011-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0011-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0011-BLK1	ND	ug/L	4.0	1.3	
Ethyl t-butyl ether	B[H0011-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0011-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0011-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0011-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0011-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0011-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0011-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0011-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0011-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0011-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0011-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0011-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0011-BLK1	108	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0011-BLK1	99.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0011-BLK1	92.7	%	80 - 120 (LCL - UCL)		

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Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010										
Benzene	B[H0010-BS1	LCS	22.320	25.000	ug/L	89.3		70 - 130		
Bromodichloromethane	B[H0010-BS1	LCS	25.430	25.000	ug/L	102		70 - 130		
Chlorobenzene	B[H0010-BS1	LCS	22.710	25.000	ug/L	90.8		70 - 130		
Chloroethane	B[H0010-BS1	LCS	22.140	25.000	ug/L	88.6		70 - 130		
1,4-Dichlorobenzene	B[H0010-BS1	LCS	24.480	25.000	ug/L	97.9		70 - 130		
1,1-Dichloroethane	B[H0010-BS1	LCS	23.570	25.000	ug/L	94.3		70 - 130		
1,1-Dichloroethene	B[H0010-BS1	LCS	25.830	25.000	ug/L	103		70 - 130		
Toluene	B[H0010-BS1	LCS	24.910	25.000	ug/L	99.6		70 - 130		
Trichloroethene	B[H0010-BS1	LCS	25.760	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0010-BS1	LCS	9.8200	10.000	ug/L	98.2		75 - 125		
Toluene-d8 (Surrogate)	B[H0010-BS1	LCS	9.7100	10.000	ug/L	97.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0010-BS1	LCS	10.010	10.000	ug/L	100		80 - 120		

QC Batch ID: B[H0011										
Benzene	B[H0011-BS1	LCS	23.220	25.000	ug/L	92.9		70 - 130		
Bromodichloromethane	B[H0011-BS1	LCS	26.080	25.000	ug/L	104		70 - 130		
Chlorobenzene	B[H0011-BS1	LCS	23.340	25.000	ug/L	93.4		70 - 130		
Chloroethane	B[H0011-BS1	LCS	21.980	25.000	ug/L	87.9		70 - 130		
1,4-Dichlorobenzene	B[H0011-BS1	LCS	24.440	25.000	ug/L	97.8		70 - 130		
1,1-Dichloroethane	B[H0011-BS1	LCS	24.530	25.000	ug/L	98.1		70 - 130		
1,1-Dichloroethene	B[H0011-BS1	LCS	26.770	25.000	ug/L	107		70 - 130		
Toluene	B[H0011-BS1	LCS	25.210	25.000	ug/L	101		70 - 130		
Trichloroethene	B[H0011-BS1	LCS	27.390	25.000	ug/L	110		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0011-BS1	LCS	10.460	10.000	ug/L	105		75 - 125		
Toluene-d8 (Surrogate)	B[H0011-BS1	LCS	9.7700	10.000	ug/L	97.7		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0011-BS1	LCS	9.9000	10.000	ug/L	99.0		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010] and Used client sample: N.

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: B[H0011] and Used client sample: Y - Description: MW-25-1, 07/25/2017 13:20.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011]		Used client sample: Y - Description: MW-25-1, 07/25/2017 13:20								
1,1-Dichloroethene	MS	1720381-12	ND	27.800	25.000	ug/L		111		70 - 130
	MSD	1720381-12	ND	26.870	25.000	ug/L	3.4	107	20	70 - 130
Toluene	MS	1720381-12	ND	26.030	25.000	ug/L		104		70 - 130
	MSD	1720381-12	ND	26.300	25.000	ug/L	1.0	105	20	70 - 130
Trichloroethene	MS	1720381-12	1.8300	27.200	25.000	ug/L		101		70 - 130
	MSD	1720381-12	1.8300	27.850	25.000	ug/L	2.4	104	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1720381-12	ND	10.120	10.000	ug/L		101		75 - 125
	MSD	1720381-12	ND	9.7100	10.000	ug/L	4.1	97.1		75 - 125
Toluene-d8 (Surrogate)	MS	1720381-12	ND	9.4800	10.000	ug/L		94.8		80 - 120
	MSD	1720381-12	ND	9.8000	10.000	ug/L	3.3	98.0		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1720381-12	ND	10.370	10.000	ug/L		104		80 - 120
	MSD	1720381-12	ND	9.9500	10.000	ug/L	4.1	99.5		80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0010]						
Chloroacetonitrile	B[H0010-BLK1	0	ug/L			
1-Chlorobutane	B[H0010-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0010-BLK1	0	ug/L			
Methyl acrylate	B[H0010-BLK1	0	ug/L			
Nitrobenzene	B[H0010-BLK1	0	ug/L			
2-Nitropropane	B[H0010-BLK1	0	ug/L			
QC Batch ID: B[H0011]						
Chloroacetonitrile	B[H0011-BLK1	0	ug/L			
1-Chlorobutane	B[H0011-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0011-BLK1	0	ug/L			
Methyl acrylate	B[H0011-BLK1	0	ug/L			
Nitrobenzene	B[H0011-BLK1	0	ug/L			
2-Nitropropane	B[H0011-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2423]						
Chloride	B[G2423-BLK1	ND	mg/L	0.50	0.077	
Nitrate as N	B[G2423-BLK1	ND	mg/L	0.10	0.021	
Sulfate	B[G2423-BLK1	ND	mg/L	1.0	0.13	
QC Batch ID: B[G2615]						
ortho-Phosphate as P	B[G2615-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B[G2625]						
Nitrite as N	B[G2625-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B[H0834]						
Perchlorate	B[H0834-BLK1	ND	ug/L	4.0	0.58	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2423										
Chloride	B[G2423-BS1	LCS	48.904	50.000	mg/L	97.8		90 - 110		
Nitrate as N	B[G2423-BS1	LCS	4.8470	5.0000	mg/L	96.9		90 - 110		
Sulfate	B[G2423-BS1	LCS	95.607	100.00	mg/L	95.6		90 - 110		
QC Batch ID: B[G2615										
ortho-Phosphate as P	B[G2615-BS1	LCS	0.18548	0.20000	mg/L	92.7		90 - 110		
QC Batch ID: B[G2625										
Nitrite as N	B[G2625-BS1	LCS	0.51805	0.50000	mg/L	104		90 - 110		
QC Batch ID: B[H0834										
Perchlorate	B[H0834-BS1	LCS	8.9764	10.000	ug/L	89.8		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2423]		Used client sample: Y - Description: MW-24-1, 07/27/2017 11:00								
Chloride	DUP	1720687-08	84.626	84.614		mg/L	0.0		10	
	MS	1720687-08	84.626	136.81	50.505	mg/L		103		80 - 120
	MSD	1720687-08	84.626	137.27	50.505	mg/L	0.3	104	10	80 - 120
Nitrate as N	DUP	1720687-08	1.4120	1.4130		mg/L	0.1		10	
	MS	1720687-08	1.4120	6.6758	5.0505	mg/L		104		80 - 120
	MSD	1720687-08	1.4120	6.7091	5.0505	mg/L	0.5	105	10	80 - 120
Sulfate	DUP	1720687-08	52.634	52.704		mg/L	0.1		10	
	MS	1720687-08	52.634	161.77	101.01	mg/L		108		80 - 120
	MSD	1720687-08	52.634	162.06	101.01	mg/L	0.2	108	10	80 - 120
QC Batch ID: B[G2615]		Used client sample: Y - Description: MW-24-1, 07/27/2017 11:00								
ortho-Phosphate as P	DUP	1720687-08	ND	ND		mg/L			10	
	MS	1720687-08	ND	0.20952	0.21053	mg/L		99.5		90 - 110
	MSD	1720687-08	ND	0.21149	0.21053	mg/L	0.9	100	10	90 - 110
QC Batch ID: B[G2625]		Used client sample: Y - Description: MW-24-1, 07/27/2017 11:00								
Nitrite as N	DUP	1720687-08	0.010396	0.011076		mg/L	6.3		10	J
	MS	1720687-08	0.010396	0.54507	0.52632	mg/L		102		90 - 110
	MSD	1720687-08	0.010396	0.54864	0.52632	mg/L	0.7	102	10	90 - 110
QC Batch ID: B[H0834]		Used client sample: N								
Perchlorate	DUP	1720707-01	ND	ND		ug/L			15	
	MS	1720707-01	ND	10.635	10.101	ug/L		105		80 - 120
	MSD	1720707-01	ND	10.857	10.101	ug/L	2.1	107	15	80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2467]						
Hexavalent Chromium	B[G2467-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: B[H0163]						
Total Recoverable Chromium	B[H0163-BLK1	0.52200	ug/L	3.0	0.50	J

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2467										
Hexavalent Chromium	B[G2467-BS1	LCS	0.049874	0.050000	mg/L	99.7		85 - 115		
QC Batch ID: B[H0163										
Total Recoverable Chromium	B[H0163-BS1	LCS	43.540	40.000	ug/L	109		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2467]		Used client sample: Y - Description: MW-22-3, 07/27/2017 07:25								
Hexavalent Chromium	DUP	1720687-02	0.0023080	0.0019720		mg/L	15.7		10	J,A02
	MS	1720687-02	0.0023080	0.054774	0.052632	mg/L		99.7	85 - 115	
	MSD	1720687-02	0.0023080	0.054620	0.052632	mg/L	0.3	99.4	10 85 - 115	
QC Batch ID: B[H0163]		Used client sample: Y - Description: MW-22-3, 07/27/2017 07:25								
Total Recoverable Chromium	DUP	1720687-02	3.0950	3.1320		ug/L	1.2		20	
	MS	1720687-02	3.0950	44.262	40.000	ug/L		103	70 - 130	
	MSD	1720687-02	3.0950	42.185	40.000	ug/L	4.8	97.7	20 70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/09/2017 22:26
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 08/15/2017

David Conner

Tidewater Inc.

3761 Attucks Drive
Powell, OH 43065

Client Project: 3Q17
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1720817
Invoice ID: B276253

Enclosed are the results of analyses for samples received by the laboratory on 7/28/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Stuart Buttram
Technical Director

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: David Conner Attn: David Conner Street Address: 3761 Attucks Drive City: Powell State: OH Zip: 43065 Phone: (626) 298-5715 Fax: (614) 792-2897 Email Address: david.conner@tideh2o.net Submission #: 17-20817

Project Description: JPL-GW Monitoring Project Code: 3Q17 Sampler (s): Blaine Tech Think Tanks

Client: The Bodhi Group Attn: Sree Gopinath Address: 5480 Baltimore Drive, Suite 209 City: La Mesa State: CA Zip: 91948

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

*Standard Turnaround = 10

Sample #	Sample Description	Date	Time	Matrix*	Analysis Requested												
					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-5-072817	07/28/17	0700	GW	X												
-2	MW-23-4		0725	GW	X												
-3	MW-23-3		0750	GW	X												
-4	MW-23-2		0825	GW	X												
-5	MW-23-1		0910	GW	X												
-6	DUP-3-3Q17		0855	GW	X												
-7	MW-26-2		1050	GW	X												
-8	MW-26-1		1110	GW	X												
-9	EB-5-072817		1125	GW	X												

Notes: REPORT HOLDING TIME C16 NO2 NO3 OP SS DO CL BOD MBAS COT

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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: 7/28/17 Time: 1300 2. Requisitioned By: [Signature] Date: 7/28/17 Time: 1345 3. Requisitioned By: [Signature] Date: 7/28/17 Time: 1625

Global ID: 1. Received By: [Signature] Date: 7/28/17 Time: 1705 2. Received By: [Signature] Date: 7/28/17 Time: 1545 3. Received By: [Signature] Date: 7/28/17 Time: 1705

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 Page 1 Of 1

Submission #: 1720817

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO
 W S

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 1725

COC Received YES NO Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 7/28/25
 Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		A	D	D	D	D	D	D	D	D
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		B	E	E	E	E	E	E	E	E
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
40ml VOA VIAL										
QT EPA 1664										
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 EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: _____ Date/Time: 7/28/25 1740
 A = Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1720817-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-5-072817 Sampled By: BAT	Receive Date: 07/28/2017 17:25 Sampling Date: 07/28/2017 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-5-072817 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1720817-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2017 17:25 Sampling Date: 07/28/2017 07:25 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater 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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1720817-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2017 17:25 Sampling Date: 07/28/2017 07:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1720817-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2017 17:25 Sampling Date: 07/28/2017 08:25 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1720817-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2017 17:25 Sampling Date: 07/28/2017 09:10 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater 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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1720817-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-3-3Q17 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2017 17:25 Sampling Date: 07/28/2017 08:35 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-3-3Q17 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1720817-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-26-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2017 17:25 Sampling Date: 07/28/2017 10:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-26-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1720817-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-26-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2017 17:25 Sampling Date: 07/28/2017 11:10 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater 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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1720817-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-5-072817 Sampled By: Blaine Tech of BAT	Receive Date: 07/28/2017 17:25 Sampling Date: 07/28/2017 11:25 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-5-072817 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-01	Client Sample Name: JPL-GW, TB-5-072817, 7/28/2017 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-01	Client Sample Name: JPL-GW, TB-5-072817, 7/28/2017 7:00:00AM
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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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-01	Client Sample Name: JPL-GW, TB-5-072817, 7/28/2017 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	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	08/01/17	08/02/17 08:52	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720817-01	Client Sample Name: JPL-GW, TB-5-072817, 7/28/2017 7:00:00AM
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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	08/01/17	08/02/17 08:52	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720817-02	Client Sample Name: JPL-GW, MW-23-4, 7/28/2017 7:25:00AM, Blaine Tech
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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	3.7	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/28/17	07/28/17 18:25	JSW	KONE-1	1	B[G2617
2	EPA-200.8	08/03/17	08/03/17 23:13	MH1	PE-EL3	1	B[H0270

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Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-03	Client Sample Name: JPL-GW, MW-23-3, 7/28/2017 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-03	Client Sample Name: JPL-GW, MW-23-3, 7/28/2017 7:50:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-03	Client Sample Name: JPL-GW, MW-23-3, 7/28/2017 7:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/01/17	08/02/17 09:15	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720817-03	Client Sample Name: JPL-GW, MW-23-3, 7/28/2017 7:50:00AM, 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	08/01/17	08/02/17 09:15	MGC	MS-V5	1	B[H0011

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720817-03	Client Sample Name: JPL-GW, MW-23-3, 7/28/2017 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.7	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/09/17 22:23	EMW	IC6	1	B[H0982

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720817-03	Client Sample Name: JPL-GW, MW-23-3, 7/28/2017 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0029	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	3.8	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	07/28/17	07/28/17 18:39	JSW	KONE-1	1	B[G2617
2	EPA-200.8	08/03/17	08/03/17 23:47	MH1	PE-EL3	1	B[H0270

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Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-04	Client Sample Name: JPL-GW, MW-23-2, 7/28/2017 8:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.84	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.30	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-04	Client Sample Name: JPL-GW, MW-23-2, 7/28/2017 8:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	4.0	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-04	Client Sample Name: JPL-GW, MW-23-2, 7/28/2017 8:25:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/03/17 02:53	MGC	MS-V5	1	B[H0012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720817-04	Client Sample Name: JPL-GW, MW-23-2, 7/28/2017 8:25:00AM, 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	08/02/17	08/03/17 02:53	MGC	MS-V5	1	B[H0012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720817-04	Client Sample Name: JPL-GW, MW-23-2, 7/28/2017 8:25:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.9	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/09/17 22:50	EMW	IC6	1	B[H0982

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720817-04	Client Sample Name: JPL-GW, MW-23-2, 7/28/2017 8:25:00AM, 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	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	07/28/17	07/28/17 19:12	JSW	KONE-1	1	B[G2617
2	EPA-200.8	08/03/17	08/03/17 23:50	MH1	PE-EL3	1	B[H0270

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-05	Client Sample Name: JPL-GW, MW-23-1, 7/28/2017 9:10:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.40	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-05	Client Sample Name: JPL-GW, MW-23-1, 7/28/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	1.5	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-05	Client Sample Name: JPL-GW, MW-23-1, 7/28/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	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	08/02/17	08/03/17 03:16	MGC	MS-V5	1	B[H0012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720817-05	Client Sample Name: JPL-GW, MW-23-1, 7/28/2017 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	08/02/17	08/03/17 03:16	MGC	MS-V5	1	B[H0012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720817-05	Client Sample Name: JPL-GW, MW-23-1, 7/28/2017 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.9	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 10:36	OLH	IC6	1	B[H0982

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720817-05	Client Sample Name: JPL-GW, MW-23-1, 7/28/2017 9:10:00AM, 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	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	07/28/17	07/28/17 18:39	JSW	KONE-1	1	B[G2617
2	EPA-200.8	08/03/17	08/03/17 23:54	MH1	PE-EL3	1	B[H0270

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-06 Client Sample Name: JPL-GW, DUP-3-3Q17, 7/28/2017 8:35:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.89	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.31	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-06	Client Sample Name: JPL-GW, DUP-3-3Q17, 7/28/2017 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.80	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	4.1	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-06	Client Sample Name: JPL-GW, DUP-3-3Q17, 7/28/2017 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/03/17 03:39	MGC	MS-V5	1	B[H0012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720817-06	Client Sample Name: JPL-GW, DUP-3-3Q17, 7/28/2017 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/03/17 03:39	MGC	MS-V5	1	B[H0012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720817-06	Client Sample Name: JPL-GW, DUP-3-3Q17, 7/28/2017 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.7	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 11:03	OLH	IC6	1	B[H0982

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Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720817-06	Client Sample Name: JPL-GW, DUP-3-3Q17, 7/28/2017 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00099	mg/L	0.0020	0.00070	EPA-7196	ND	J	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	07/28/17	07/28/17 18:39	JSW	KONE-1	1	B[G2617
2	EPA-200.8	08/03/17	08/03/17 23:57	MH1	PE-EL3	1	B[H0270

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Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-07	Client Sample Name: JPL-GW, MW-26-2, 7/28/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	1.3	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-07	Client Sample Name: JPL-GW, MW-26-2, 7/28/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.28	ug/L	0.50	0.19	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-07	Client Sample Name: JPL-GW, MW-26-2, 7/28/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/02/17	08/03/17 04:02	MGC	MS-V5	1	B[H0012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720817-07	Client Sample Name: JPL-GW, MW-26-2, 7/28/2017 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	08/02/17	08/03/17 04:02	MGC	MS-V5	1	B[H0012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720817-07	Client Sample Name: JPL-GW, MW-26-2, 7/28/2017 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.9	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 11:17	OLH	IC6	1	B[H0982

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720817-07	Client Sample Name: JPL-GW, MW-26-2, 7/28/2017 10:50:00AM, 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	ND	J	1
Total Recoverable Chromium	3.0	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	07/28/17	07/28/17 18:39	JSW	KONE-1	1	B[G2617
2	EPA-200.8	08/03/17	08/04/17 00:01	MH1	PE-EL3	1	B[H0270

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Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-08	Client Sample Name: JPL-GW, MW-26-1, 7/28/2017 11:10:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.29	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-08	Client Sample Name: JPL-GW, MW-26-1, 7/28/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.70	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.24	ug/L	0.50	0.19	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-08	Client Sample Name: JPL-GW, MW-26-1, 7/28/2017 11:10:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	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	08/02/17	08/03/17 04:25	MGC	MS-V5	1	B[H0012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720817-08	Client Sample Name: JPL-GW, MW-26-1, 7/28/2017 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	08/02/17	08/03/17 04:25	MGC	MS-V5	1	B[H0012

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720817-08	Client Sample Name: JPL-GW, MW-26-1, 7/28/2017 11:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.4	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 11:45	OLH	IC6	1	B[H0982

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720817-08	Client Sample Name: JPL-GW, MW-26-1, 7/28/2017 11:10:00AM, 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	1.6	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	07/28/17	07/28/17 18:39	JSW	KONE-1	1	B[G2617
2	EPA-200.8	08/03/17	08/04/17 00:04	MH1	PE-EL3	1	B[H0270

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-09	Client Sample Name: JPL-GW, EB-5-072817, 7/28/2017 11:25:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-09	Client Sample Name: JPL-GW, EB-5-072817, 7/28/2017 11:25:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720817-09	Client Sample Name: JPL-GW, EB-5-072817, 7/28/2017 11:25:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	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	08/02/17	08/03/17 04:48	MGC	MS-V5	1	B[H0012

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Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720817-09	Client Sample Name: JPL-GW, EB-5-072817, 7/28/2017 11:25:00AM, 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	08/02/17	08/03/17 04:48	MGC	MS-V5	1	B[H0012

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720817-09	Client Sample Name: JPL-GW, EB-5-072817, 7/28/2017 11:25:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 12:13	OLH	IC6	1	B[H0982

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Tidewater Inc.
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Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720817-09	Client Sample Name: JPL-GW, EB-5-072817, 7/28/2017 11:25:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	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	07/28/17	07/28/17 18:39	JSW	KONE-1	1	B[G2617
2	EPA-200.8	08/03/17	08/04/17 00:08	MH1	PE-EL3	1	B[H0270

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011						
Benzene	B[H0011-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0011-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0011-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0011-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0011-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B[H0011-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0011-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0011-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0011-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0011-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0011-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0011-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0011-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0011-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0011-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011						
trans-1,3-Dichloropropene	B[H0011-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0011-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0011-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0011-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0011-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0011-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0011-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0011-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0011-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0011-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0011-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0011-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0011-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0011-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0011-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0011-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0011-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0011-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0011-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0011-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0011-BLK1	ND	ug/L	4.0	1.3	

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011]

Ethyl t-butyl ether	B[H0011-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0011-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0011-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0011-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0011-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0011-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0011-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0011-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0011-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0011-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0011-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0011-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0011-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0011-BLK1	108	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0011-BLK1	99.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0011-BLK1	92.7	%	80 - 120 (LCL - UCL)		

QC Batch ID: B[H0012]

Benzene	B[H0012-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0012-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0012-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0012-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0012-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0012-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0012-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0012-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0012-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0012-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0012-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0012-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0012-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0012-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0012-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0012-BLK1	ND	ug/L	0.50	0.093	

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Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0012						
Dibromochloromethane	B[H0012-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0012-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0012-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0012-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0012-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0012-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0012-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0012-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0012-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0012-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0012-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0012-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0012-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0012-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0012-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0012-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0012-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0012-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B[H0012-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0012-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0012-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0012-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0012-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0012-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0012-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0012-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0012-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0012-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0012-BLK1	ND	ug/L	0.50	0.21	
1,1,2,2-Tetrachloroethane	B[H0012-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B[H0012-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0012-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0012-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0012-BLK1	ND	ug/L	0.50	0.15	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0012]						
1,1,1-Trichloroethane	B[H0012-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0012-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0012-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0012-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0012-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0012-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0012-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0012-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0012-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0012-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0012-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0012-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0012-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0012-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0012-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0012-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0012-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0012-BLK1	ND	ug/L	4.0	1.3	
Ethyl t-butyl ether	B[H0012-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0012-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0012-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0012-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0012-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0012-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0012-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0012-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0012-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0012-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0012-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0012-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0012-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0012-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0012-BLK1	98.5	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0012-BLK1	97.5	%	80 - 120 (LCL - UCL)		

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011										
Benzene	B[H0011-BS1	LCS	23.220	25.000	ug/L	92.9		70 - 130		
Bromodichloromethane	B[H0011-BS1	LCS	26.080	25.000	ug/L	104		70 - 130		
Chlorobenzene	B[H0011-BS1	LCS	23.340	25.000	ug/L	93.4		70 - 130		
Chloroethane	B[H0011-BS1	LCS	21.980	25.000	ug/L	87.9		70 - 130		
1,4-Dichlorobenzene	B[H0011-BS1	LCS	24.440	25.000	ug/L	97.8		70 - 130		
1,1-Dichloroethane	B[H0011-BS1	LCS	24.530	25.000	ug/L	98.1		70 - 130		
1,1-Dichloroethene	B[H0011-BS1	LCS	26.770	25.000	ug/L	107		70 - 130		
Toluene	B[H0011-BS1	LCS	25.210	25.000	ug/L	101		70 - 130		
Trichloroethene	B[H0011-BS1	LCS	27.390	25.000	ug/L	110		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0011-BS1	LCS	10.460	10.000	ug/L	105		75 - 125		
Toluene-d8 (Surrogate)	B[H0011-BS1	LCS	9.7700	10.000	ug/L	97.7		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0011-BS1	LCS	9.9000	10.000	ug/L	99.0		80 - 120		

QC Batch ID: B[H0012										
Benzene	B[H0012-BS1	LCS	23.260	25.000	ug/L	93.0		70 - 130		
Bromodichloromethane	B[H0012-BS1	LCS	24.980	25.000	ug/L	99.9		70 - 130		
Chlorobenzene	B[H0012-BS1	LCS	22.010	25.000	ug/L	88.0		70 - 130		
Chloroethane	B[H0012-BS1	LCS	23.230	25.000	ug/L	92.9		70 - 130		
1,4-Dichlorobenzene	B[H0012-BS1	LCS	23.090	25.000	ug/L	92.4		70 - 130		
1,1-Dichloroethane	B[H0012-BS1	LCS	24.370	25.000	ug/L	97.5		70 - 130		
1,1-Dichloroethene	B[H0012-BS1	LCS	26.170	25.000	ug/L	105		70 - 130		
Toluene	B[H0012-BS1	LCS	25.220	25.000	ug/L	101		70 - 130		
Trichloroethene	B[H0012-BS1	LCS	25.810	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0012-BS1	LCS	9.7700	10.000	ug/L	97.7		75 - 125		
Toluene-d8 (Surrogate)	B[H0012-BS1	LCS	10.060	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0012-BS1	LCS	9.4100	10.000	ug/L	94.1		80 - 120		

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Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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 Quails. Includes QC Batch ID: B[H0011] and Used client sample: Y - Description: MW-25-1, 07/25/2017 13:20.

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quails. Includes QC Batch ID: B[H0012] and Used client sample: N.

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Project Number: 3Q17
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: B[H0012		Used client sample: N								
1,1-Dichloroethene	MS	1720700-02	ND	28.710	25.000	ug/L		115		70 - 130
	MSD	1720700-02	ND	24.770	25.000	ug/L	14.7	99.1	20	70 - 130
Toluene	MS	1720700-02	ND	28.240	25.000	ug/L		113		70 - 130
	MSD	1720700-02	ND	24.180	25.000	ug/L	15.5	96.7	20	70 - 130
Trichloroethene	MS	1720700-02	1.9700	30.990	25.000	ug/L		116		70 - 130
	MSD	1720700-02	1.9700	26.300	25.000	ug/L	16.4	97.3	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1720700-02	ND	10.210	10.000	ug/L		102		75 - 125
	MSD	1720700-02	ND	9.6600	10.000	ug/L	5.5	96.6		75 - 125
Toluene-d8 (Surrogate)	MS	1720700-02	ND	9.7000	10.000	ug/L		97.0		80 - 120
	MSD	1720700-02	ND	9.7200	10.000	ug/L	0.2	97.2		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1720700-02	ND	9.7800	10.000	ug/L		97.8		80 - 120
	MSD	1720700-02	ND	10.120	10.000	ug/L	3.4	101		80 - 120

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Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0011]						
Chloroacetonitrile	B[H0011-BLK1	0	ug/L			
1-Chlorobutane	B[H0011-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0011-BLK1	0	ug/L			
Methyl acrylate	B[H0011-BLK1	0	ug/L			
Nitrobenzene	B[H0011-BLK1	0	ug/L			
2-Nitropropane	B[H0011-BLK1	0	ug/L			
QC Batch ID: B[H0012]						
Chloroacetonitrile	B[H0012-BLK1	0	ug/L			
1-Chlorobutane	B[H0012-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0012-BLK1	0	ug/L			
Methyl acrylate	B[H0012-BLK1	0	ug/L			
Nitrobenzene	B[H0012-BLK1	0	ug/L			
2-Nitropropane	B[H0012-BLK1	0	ug/L			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0982]						
Perchlorate	B[H0982-BLK1	ND	ug/L	4.0	0.58	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0982										
Perchlorate	B[H0982-BS1	LCS	9.7220	10.000	ug/L	97.2		85	115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0982		Used client sample: Y - Description: MW-21-3, 07/31/2017 10:50								
Perchlorate	DUP	1720934-07	3.0460	3.2475		ug/L	6.4		15	J
	MS	1720934-07	3.0460	11.975	10.101	ug/L		88.4	80 - 120	
	MSD	1720934-07	3.0460	11.376	10.101	ug/L	5.1	82.5	15 80 - 120	

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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2617]						
Hexavalent Chromium	B[G2617-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: B[H0270]						
Total Recoverable Chromium	B[H0270-BLK1	ND	ug/L	3.0	0.50	

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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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	Quals
								Percent Recovery	RPD		
QC Batch ID: B[G2617											
Hexavalent Chromium	B[G2617-BS1	LCS	0.049279	0.050000	mg/L	98.6		85	115		
QC Batch ID: B[H0270											
Total Recoverable Chromium	B[H0270-BS1	LCS	41.111	40.000	ug/L	103		85	115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[G2617]		Used client sample: Y - Description: MW-23-4, 07/28/2017 07:25								
Hexavalent Chromium	DUP	1720817-02	0.0030760	0.0030570		mg/L	0.6		10	
	MS	1720817-02	0.0030760	0.054752	0.052632	mg/L		98.2	85 - 115	
	MSD	1720817-02	0.0030760	0.054903	0.052632	mg/L	0.3	98.5	10	85 - 115
QC Batch ID: B[H0270]		Used client sample: Y - Description: MW-23-4, 07/28/2017 07:25								
Total Recoverable Chromium	DUP	1720817-02	3.6690	3.8320		ug/L	4.3		20	
	MS	1720817-02	3.6690	41.468	40.000	ug/L		94.5	70 - 130	
	MSD	1720817-02	3.6690	41.124	40.000	ug/L	0.8	93.6	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:09
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 08/14/2017

David Conner

Tidewater Inc.

3761 Attucks Drive

Powell, OH 43065

Client Project: 3Q17

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 1720934

Invoice ID: B276064

Enclosed are the results of analyses for samples received by the laboratory on 7/31/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton

Client Service Rep

Stuart Buttram

Technical Director

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

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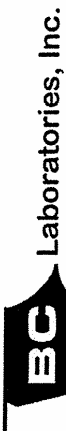


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Chain of Custody Form



Page 1 of 1

*Required Fields

Report To: Tidewater, Inc.
 Client: David Conner
 Attn: David Conner
 Street Address: 3761 Altuicks Drive
 City: Powell State: OH Zip: 43065
 Phone: 626 1298 - 5715 Fax: 614 792 - 2897
 Email Address: david.conner@tideh2o.net
 Submission #: 17-20934

Project Description: JPL-GW Monitoring
 Project Code: 3Q17
 Sampler(s): Blaine Tech
 Think Hoang

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

Billing:
 Client: The Bodhi Group
 Attn: Sree Gopinath
 Address: 5480 Baltimore Drive, Suite 209
 City: La Mesa State: CA Zip: 91948
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-6-073117	07/31/17	0700	GW
-2	MW-4-3		0735	GW
-3	MW-4-2		0805	GW
-4	MW-4-1		0830	GW
-5	MW-21-5		1015	GW
-6	MW-21-4		0940	GW
-7	MW-21-3		1050	GW
-8	MW-21-2		1130	GW
-9	MW-21-1		1200	GW
-10	EB-6-073117		1215	GW
-11	SB-2-073117		1230	GW

Notes:
 SHORT HOLDING TIME
 COT NO₂ NO₃ OP SS
 DO Cl₂ GOD MBAS COT
 MS SHORT HOLDING TIME
 COT NO₂ NO₃ OP SS
 BOD MBAS COT

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

Global ID: _____
 1. Received By: _____ Date: 7-31-17 Time: 1300
 2. Relinquished By: _____ Date: 7-31-17 Time: 1550
 3. Relinquished By: _____ Date: 7-31-17 Time: 1650

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 (CA Default)
 Geotracker 2 File
 Other (Specify) _____

Cost Center:
 1. Relinquished By: _____ Date: _____ Time: _____
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

Matrix Types: CHLBY 0-Miscellaneous
 M = Miscellaneous
 SUB-OUT

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 Page 1 Of 3

Submission #: 17-20934

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO, W/S.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes/No.

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

COC Received: YES/NO. Emissivity: 0.95. Container: PE. Thermometer ID: 208. Date/Time: 11/31/17. Analyst Init: [Signature]. Temperature: (A) 8.1 C / (C) 0.4 C.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT PE UNPRES, PT CYANIDE, etc. with handwritten sample numbers and initials.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 11/31/17 17:50. A = Actual / C = Corrected. Rev 21 05/23/2016



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 3

Submission #: 17-20934

SHIPPING INFORMATION		SHIPPING CONTAINER		FREE LIQUID
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	Ontrac <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
BC Lab Field Service <input checked="" type="checkbox"/>	Other <input type="checkbox"/> (Specify) _____	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/> Box <input type="checkbox"/>	(W) / S
Other <input type="checkbox"/> (Specify) _____		Other <input type="checkbox"/> (Specify) _____		

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

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

COC Received YES NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 11/31/17 17:50

Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init: BS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC									
QT EPA 1664										
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 EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____

Sample Numbering Completed By: MMK Date/Time: 11/31/17 17:50

A = Actual / C = Corrected

Rev 21 05/23/2016 [S:\WPDoc\WordPerfect\LAB_DCS\FORMS\SAMRECrev 20]



BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 3

Submission #: 17-20934

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO, W/S

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes, No

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

COC Received: YES, NO. Emissivity: 0.95. Container: PE. Thermometer ID: 208. Date/Time: 11/31/15. Analyst Init: [Signature]

Table with columns: SAMPLE CONTAINERS, SAMPLE NUMBERS (1-11). Rows include: QT PE UNPRES, 4oz / 8oz / 16oz PE UNPRES, 2oz Cr*, QT INORGANIC CHEMICAL METALS, INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz, PT CYANIDE, PT NITROGEN FORMS, PT TOTAL SULFIDE, 2oz. NITRATE / NITRITE, PT TOTAL ORGANIC CARBON, PT CHEMICAL OXYGEN DEMAND, PA PHENOLICS, 40ml VOA VIAL TRAVEL BLANK, 40ml VOA VIAL, QT EPA 1664, 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 EPA 548, QT EPA 549, QT EPA 8015M, QT EPA 8270, 8oz / 16oz / 32oz AMBER, 8oz / 16oz / 32oz JAR, SOIL SLEEVE, PCB VIAL, PLASTIC BAG, TEDLAR BAG, FERROUS IRON, ENCORE, SMART KIT, SUMMA CANISTER

Comments: Sample Numbering Completed By: [Signature] Date/Time: 11/31/15 11:50 Rev 21 05/23/2016 IS:WPDclWordPerfect\LAB_DOCS\FORMS\ISAMRE\rev 201



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720934-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-6-073117 Sampled By: BAT	Receive Date: 07/31/2017 16:50 Sampling Date: 07/31/2017 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-6-073117 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1720934-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2017 16:50 Sampling Date: 07/31/2017 07:35 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1720934-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2017 16:50 Sampling Date: 07/31/2017 08:05 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater 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: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720934-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2017 16:50 Sampling Date: 07/31/2017 08:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1720934-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-5 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2017 16:50 Sampling Date: 07/31/2017 10:15 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720934-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-4 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2017 16:50 Sampling Date: 07/31/2017 09:45 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720934-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-3 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2017 16:50 Sampling Date: 07/31/2017 10:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720934-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-2 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2017 16:50 Sampling Date: 07/31/2017 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1720934-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-1 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2017 16:50 Sampling Date: 07/31/2017 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1720934-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-6-073117 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2017 16:50 Sampling Date: 07/31/2017 12:15 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-6-073117 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1720934-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: SB-2-073117 Sampled By: Blaine Tech of BAT	Receive Date: 07/31/2017 16:50 Sampling Date: 07/31/2017 12:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-2-073117 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-01	Client Sample Name: JPL-GW, TB-6-073117, 7/31/2017 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-01	Client Sample Name: JPL-GW, TB-6-073117, 7/31/2017 7:00:00AM
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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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-01	Client Sample Name: JPL-GW, TB-6-073117, 7/31/2017 7:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	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	08/03/17	08/03/17 15:37	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720934-01	Client Sample Name: JPL-GW, TB-6-073117, 7/31/2017 7:00:00AM
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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	08/03/17	08/03/17 15:37	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-02	Client Sample Name: JPL-GW, MW-4-3, 7/31/2017 7:35:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-02	Client Sample Name: JPL-GW, MW-4-3, 7/31/2017 7:35:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.70	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-02	Client Sample Name: JPL-GW, MW-4-3, 7/31/2017 7:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.5	%	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	08/03/17	08/03/17 16:00	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720934-02	Client Sample Name: JPL-GW, MW-4-3, 7/31/2017 7:35:00AM, 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	08/03/17	08/03/17 16:00	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720934-02	Client Sample Name: JPL-GW, MW-4-3, 7/31/2017 7:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 13:08	OLH	IC6	1	B[H0982

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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720934-02	Client Sample Name: JPL-GW, MW-4-3, 7/31/2017 7:35:00AM, 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	8.6	ug/L	3.0	0.50	EPA-200.8	0.72		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/31/17	07/31/17 20:15	JSW	KONE-1	1	B[H0129
2	EPA-200.8	08/03/17	08/04/17 02:28	MH1	PE-EL3	1	B[H0275

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Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-03	Client Sample Name: JPL-GW, MW-4-2, 7/31/2017 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.37	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-03	Client Sample Name: JPL-GW, MW-4-2, 7/31/2017 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.24	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	1.3	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-03	Client Sample Name: JPL-GW, MW-4-2, 7/31/2017 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/03/17	08/03/17 16:23	MGC	MS-V5	1	B[H0282

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720934-03	Client Sample Name: JPL-GW, MW-4-2, 7/31/2017 8:05:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/03/17	08/03/17 16:23	MGC	MS-V5	1	B[H0282

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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720934-03	Client Sample Name: JPL-GW, MW-4-2, 7/31/2017 8:05:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.3	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 20:49	EMW	IC6	1	B[H0982

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720934-03	Client Sample Name: JPL-GW, MW-4-2, 7/31/2017 8:05:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	4.2	ug/L	3.0	0.50	EPA-200.8	0.72		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/31/17	07/31/17 20:15	JSW	KONE-1	1	B[H0129
2	EPA-200.8	08/03/17	08/04/17 02:31	MH1	PE-EL3	1	B[H0275

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Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-04	Client Sample Name: JPL-GW, MW-4-1, 7/31/2017 8:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-04	Client Sample Name: JPL-GW, MW-4-1, 7/31/2017 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-04	Client Sample Name: JPL-GW, MW-4-1, 7/31/2017 8:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.9	%	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	08/03/17	08/03/17 16:46	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720934-04	Client Sample Name: JPL-GW, MW-4-1, 7/31/2017 8:30:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/03/17	08/03/17 16:46	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720934-04	Client Sample Name: JPL-GW, MW-4-1, 7/31/2017 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 13:50	OLH	IC6	1	B[H0982

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720934-04	Client Sample Name: JPL-GW, MW-4-1, 7/31/2017 8:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.8	ug/L	3.0	0.50	EPA-200.8	0.72	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/31/17	07/31/17 20:15	JSW	KONE-1	1	B[H0129
2	EPA-200.8	08/03/17	08/04/17 02:34	MH1	PE-EL3	1	B[H0275

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-05	Client Sample Name: JPL-GW, MW-21-5, 7/31/2017 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	5.9	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-05	Client Sample Name: JPL-GW, MW-21-5, 7/31/2017 10:15:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.95	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-05	Client Sample Name: JPL-GW, MW-21-5, 7/31/2017 10:15:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.7	%	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	08/03/17	08/03/17 17:09	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720934-05	Client Sample Name: JPL-GW, MW-21-5, 7/31/2017 10:15:00AM, 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	08/03/17	08/03/17 17:09	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720934-05	Client Sample Name: JPL-GW, MW-21-5, 7/31/2017 10:15:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 14:03	OLH	IC6	1	B[H0982

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720934-05	Client Sample Name: JPL-GW, MW-21-5, 7/31/2017 10:15:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0014	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.6	ug/L	3.0	0.50	EPA-200.8	0.72	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/31/17	07/31/17 20:15	JSW	KONE-1	1	B[H0129
2	EPA-200.8	08/03/17	08/04/17 02:38	MH1	PE-EL3	1	B[H0275

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-06	Client Sample Name: JPL-GW, MW-21-4, 7/31/2017 9:45:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	5.6	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-06	Client Sample Name: JPL-GW, MW-21-4, 7/31/2017 9:45:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.30	ug/L	0.50	0.19	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-06	Client Sample Name: JPL-GW, MW-21-4, 7/31/2017 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	115	%	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	08/03/17	08/03/17 17:32	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720934-06	Client Sample Name: JPL-GW, MW-21-4, 7/31/2017 9:45:00AM, 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	08/03/17	08/03/17 17:32	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720934-06	Client Sample Name: JPL-GW, MW-21-4, 7/31/2017 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 14:31	OLH	IC6	1	B[H0982

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720934-06	Client Sample Name: JPL-GW, MW-21-4, 7/31/2017 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0013	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	3.0	ug/L	3.0	0.50	EPA-200.8	0.72		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/31/17	07/31/17 21:01	JSW	KONE-1	1	B[H0129
2	EPA-200.8	08/03/17	08/04/17 02:41	MH1	PE-EL3	1	B[H0275

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-07	Client Sample Name: JPL-GW, MW-21-3, 7/31/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.47	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.17	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-07	Client Sample Name: JPL-GW, MW-21-3, 7/31/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	1.1	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-07	Client Sample Name: JPL-GW, MW-21-3, 7/31/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	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	08/03/17	08/03/17 12:10	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720934-07	Client Sample Name: JPL-GW, MW-21-3, 7/31/2017 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	08/03/17	08/03/17 12:10	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720934-07	Client Sample Name: JPL-GW, MW-21-3, 7/31/2017 10:50:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.0	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 14:59	OLH	IC6	1	B[H0982

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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720934-07	Client Sample Name: JPL-GW, MW-21-3, 7/31/2017 10:50:00AM, 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	4.2	ug/L	3.0	0.50	EPA-200.8	0.72		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/31/17	07/31/17 19:57	JSW	KONE-1	1	B[H0129
2	EPA-200.8	08/03/17	08/04/17 02:00	MH1	PE-EL3	1	B[H0275

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Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-08	Client Sample Name: JPL-GW, MW-21-2, 7/31/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.16	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-08	Client Sample Name: JPL-GW, MW-21-2, 7/31/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-08	Client Sample Name: JPL-GW, MW-21-2, 7/31/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	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	08/03/17	08/04/17 11:59	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720934-08	Client Sample Name: JPL-GW, MW-21-2, 7/31/2017 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	08/03/17	08/04/17 11:59	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720934-08	Client Sample Name: JPL-GW, MW-21-2, 7/31/2017 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.1	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 16:36	OLH	IC6	1	B[H0982

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720934-08	Client Sample Name: JPL-GW, MW-21-2, 7/31/2017 11:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.8	ug/L	3.0	0.50	EPA-200.8	0.72	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	07/31/17	07/31/17 20:15	JSW	KONE-1	1	B[H0129
2	EPA-200.8	08/03/17	08/04/17 02:45	MH1	PE-EL3	1	B[H0275

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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-09	Client Sample Name: JPL-GW, MW-21-1, 7/31/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.61	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-09	Client Sample Name: JPL-GW, MW-21-1, 7/31/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.20	ug/L	0.50	0.19	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-09	Client Sample Name: JPL-GW, MW-21-1, 7/31/2017 12:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	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	08/03/17	08/03/17 18:18	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720934-09	Client Sample Name: JPL-GW, MW-21-1, 7/31/2017 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	08/03/17	08/03/17 18:18	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720934-09	Client Sample Name: JPL-GW, MW-21-1, 7/31/2017 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	7.7	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 17:03	OLH	IC6	1	B[H0982

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720934-09	Client Sample Name: JPL-GW, MW-21-1, 7/31/2017 12:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0018	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	3.1	ug/L	3.0	0.50	EPA-200.8	0.72		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/31/17	07/31/17 21:17	JSW	KONE-1	1	B[H0129
2	EPA-200.8	08/03/17	08/04/17 02:48	MH1	PE-EL3	1	B[H0275

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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-10	Client Sample Name: JPL-GW, EB-6-073117, 7/31/2017 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-10	Client Sample Name: JPL-GW, EB-6-073117, 7/31/2017 12:15:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-10	Client Sample Name: JPL-GW, EB-6-073117, 7/31/2017 12:15:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/03/17	08/03/17 18:41	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720934-10	Client Sample Name: JPL-GW, EB-6-073117, 7/31/2017 12:15:00PM, 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	08/03/17	08/03/17 18:41	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720934-10	Client Sample Name: JPL-GW, EB-6-073117, 7/31/2017 12:15:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	0.75	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 17:31	OLH	IC6	1	B[H0982

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720934-10	Client Sample Name: JPL-GW, EB-6-073117, 7/31/2017 12:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.3	ug/L	3.0	0.50	EPA-200.8	0.72	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/31/17	07/31/17 20:15	JSW	KONE-1	1	B[H0129
2	EPA-200.8	08/03/17	08/04/17 02:52	MH1	PE-EL3	1	B[H0275

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-11	Client Sample Name: JPL-GW, SB-2-073117, 7/31/2017 12:30:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-11	Client Sample Name: JPL-GW, SB-2-073117, 7/31/2017 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1720934-11	Client Sample Name: JPL-GW, SB-2-073117, 7/31/2017 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.0	%	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	08/03/17	08/03/17 19:04	MGC	MS-V5	1	B[H0282

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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1720934-11	Client Sample Name: JPL-GW, SB-2-073117, 7/31/2017 12:30:00PM, 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	08/03/17	08/03/17 19:04	MGC	MS-V5	1	B[H0282

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1720934-11	Client Sample Name: JPL-GW, SB-2-073117, 7/31/2017 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/09/17	08/10/17 17:45	OLH	IC6	1	B[H0982

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1720934-11	Client Sample Name: JPL-GW, SB-2-073117, 7/31/2017 12:30:00PM, 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	1.9	ug/L	3.0	0.50	EPA-200.8	0.72	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	07/31/17	07/31/17 21:17	JSW	KONE-1	1	B[H0129
2	EPA-200.8	08/03/17	08/04/17 02:55	MH1	PE-EL3	1	B[H0275

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0282						
Benzene	B[H0282-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0282-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0282-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0282-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0282-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0282-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0282-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0282-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0282-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0282-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0282-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0282-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0282-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0282-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0282-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0282-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B[H0282-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0282-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0282-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0282-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0282-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0282-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0282-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0282-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0282-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0282-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0282-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0282-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0282-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0282-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0282-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0282-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0282-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0282-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0282						
trans-1,3-Dichloropropene	B[H0282-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0282-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0282-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0282-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0282-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0282-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0282-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0282-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0282-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0282-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0282-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B[H0282-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	B[H0282-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0282-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0282-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0282-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B[H0282-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0282-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0282-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0282-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0282-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0282-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0282-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0282-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0282-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0282-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0282-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0282-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0282-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0282-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0282-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0282-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0282-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0282-BLK1	ND	ug/L	4.0	1.3	

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0282]						
Ethyl t-butyl ether	B[H0282-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0282-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0282-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0282-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0282-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0282-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0282-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0282-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0282-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0282-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0282-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0282-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0282-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0282-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0282-BLK1	96.4	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0282-BLK1	88.5	%	80 - 120 (LCL - UCL)		

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0282										
Benzene	B[H0282-BS1	LCS	24.330	25.000	ug/L	97.3		70 - 130		
Bromodichloromethane	B[H0282-BS1	LCS	27.720	25.000	ug/L	111		70 - 130		
Chlorobenzene	B[H0282-BS1	LCS	25.180	25.000	ug/L	101		70 - 130		
Chloroethane	B[H0282-BS1	LCS	23.930	25.000	ug/L	95.7		70 - 130		
1,4-Dichlorobenzene	B[H0282-BS1	LCS	27.430	25.000	ug/L	110		70 - 130		
1,1-Dichloroethane	B[H0282-BS1	LCS	26.210	25.000	ug/L	105		70 - 130		
1,1-Dichloroethene	B[H0282-BS1	LCS	28.970	25.000	ug/L	116		70 - 130		
Toluene	B[H0282-BS1	LCS	26.730	25.000	ug/L	107		70 - 130		
Trichloroethene	B[H0282-BS1	LCS	27.730	25.000	ug/L	111		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0282-BS1	LCS	10.640	10.000	ug/L	106		75 - 125		
Toluene-d8 (Surrogate)	B[H0282-BS1	LCS	9.6500	10.000	ug/L	96.5		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0282-BS1	LCS	10.320	10.000	ug/L	103		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0282]		Used client sample: Y - Description: MW-21-3, 07/31/2017 10:50								
Benzene	MS	1720934-07	ND	25.920	25.000	ug/L		104		70 - 130
	MSD	1720934-07	ND	23.430	25.000	ug/L	10.1	93.7	20	70 - 130
Bromodichloromethane	MS	1720934-07	ND	28.120	25.000	ug/L		112		70 - 130
	MSD	1720934-07	ND	26.920	25.000	ug/L	4.4	108	20	70 - 130
Chlorobenzene	MS	1720934-07	ND	24.370	25.000	ug/L		97.5		70 - 130
	MSD	1720934-07	ND	23.200	25.000	ug/L	4.9	92.8	20	70 - 130
Chloroethane	MS	1720934-07	ND	27.360	25.000	ug/L		109		70 - 130
	MSD	1720934-07	ND	23.700	25.000	ug/L	14.3	94.8	20	70 - 130
1,4-Dichlorobenzene	MS	1720934-07	ND	25.700	25.000	ug/L		103		70 - 130
	MSD	1720934-07	ND	24.360	25.000	ug/L	5.4	97.4	20	70 - 130
1,1-Dichloroethane	MS	1720934-07	0.17000	28.260	25.000	ug/L		112		70 - 130
	MSD	1720934-07	0.17000	25.030	25.000	ug/L	12.1	99.4	20	70 - 130
1,1-Dichloroethene	MS	1720934-07	ND	30.780	25.000	ug/L		123		70 - 130
	MSD	1720934-07	ND	27.270	25.000	ug/L	12.1	109	20	70 - 130
Toluene	MS	1720934-07	ND	27.270	25.000	ug/L		109		70 - 130
	MSD	1720934-07	ND	26.260	25.000	ug/L	3.8	105	20	70 - 130
Trichloroethene	MS	1720934-07	1.0600	30.140	25.000	ug/L		116		70 - 130
	MSD	1720934-07	1.0600	27.520	25.000	ug/L	9.1	106	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1720934-07	ND	10.830	10.000	ug/L		108		75 - 125
	MSD	1720934-07	ND	10.100	10.000	ug/L	7.0	101		75 - 125
Toluene-d8 (Surrogate)	MS	1720934-07	ND	9.7300	10.000	ug/L		97.3		80 - 120
	MSD	1720934-07	ND	9.9700	10.000	ug/L	2.4	99.7		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1720934-07	ND	9.9000	10.000	ug/L		99.0		80 - 120
	MSD	1720934-07	ND	9.8600	10.000	ug/L	0.4	98.6		80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0282]						
Chloroacetonitrile	B[H0282-BLK1	0	ug/L			
1-Chlorobutane	B[H0282-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0282-BLK1	0	ug/L			
Methyl acrylate	B[H0282-BLK1	0	ug/L			
Nitrobenzene	B[H0282-BLK1	0	ug/L			
2-Nitropropane	B[H0282-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0982						
Perchlorate	B[H0982-BLK1	ND	ug/L	4.0	0.58	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0982										
Perchlorate	B[H0982-BS1	LCS	9.7220	10.000	ug/L	97.2		85	115	

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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0982		Used client sample: Y - Description: MW-21-3, 07/31/2017 10:50								
Perchlorate	DUP	1720934-07	3.0460	3.2475		ug/L	6.4		15	J
	MS	1720934-07	3.0460	11.975	10.101	ug/L		88.4	80 - 120	
	MSD	1720934-07	3.0460	11.376	10.101	ug/L	5.1	82.5	15 80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0129]						
Hexavalent Chromium	B[H0129-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: B[H0275]						
Total Recoverable Chromium	B[H0275-BLK1	0.72300	ug/L	3.0	0.50	J

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0129										
Hexavalent Chromium	B[H0129-BS1	LCS	0.049510	0.050000	mg/L	99.0		85 - 115		
QC Batch ID: B[H0275										
Total Recoverable Chromium	B[H0275-BS1	LCS	38.783	40.000	ug/L	97.0		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0129]		Used client sample: Y - Description: MW-21-3, 07/31/2017 10:50								
Hexavalent Chromium	DUP	1720934-07	ND	ND		mg/L			10	
	MS	1720934-07	ND	0.052308	0.052632	mg/L		99.4		85 - 115
	MSD	1720934-07	ND	0.052263	0.052632	mg/L	0.1	99.3	10	85 - 115
QC Batch ID: B[H0275]		Used client sample: Y - Description: MW-21-3, 07/31/2017 10:50								
Total Recoverable Chromium	DUP	1720934-07	4.2370	1.5320		ug/L	93.8		20	J,A02
	MS	1720934-07	4.2370	41.031	40.000	ug/L		92.0		70 - 130
	MSD	1720934-07	4.2370	39.611	40.000	ug/L	3.5	88.4	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/14/2017 9:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 08/15/2017

David Conner

Tidewater Inc.

3761 Attucks Drive

Powell, OH 43065

Client Project: 3Q17

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 1721091

Invoice ID: B276254

Enclosed are the results of analyses for samples received by the laboratory on 8/1/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Stuart Buttram
Technical Director

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

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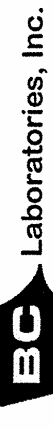
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Chain of Custody Form



Page 1 of 2

***Required Fields**

Report To: Tidewater, Inc.
 Client: David Conner
 Attn: David Conner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 626 288-5715 Fax: 614 792-2897
 Email Address: david.conner@tideh2o.net
 Submission #: 17-21091

Project Description: JPL-GW Monitoring
 Project Code: 3Q17
 Sampler(s): Blaine Tech
Think Hours

Billing
 Client: The Bodhi Group
 Attn: Sree Gopinath
 Address: 5480 Baltimore Drive, Suite 209
 City: La Mesa State: CA Zip: 91948
 Are there any tests with holding times? Yes No
 less than or equal to 48 hours?
 *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-7-080117	08/11/17	0700	GW	X						
-2	MW-12-5		0730	GW	X						
-3	MW-12-4		0800	GW	X						
-4	MW-12-3		0815	GW	X						
-5	DUP-4-3017		0825	GW	X						
-6	MW-12-2		0915	GW	X						
-7	MW-12-1		0945	GW	X						
-8	MW-11-4		1100	GW	X						
-9	MW-11-3		1130	GW	X						
-10	MW-11-2		1150	GW	X						
-11	DUP-5-3017		1200	GW	X						

Notes
 Lead IV
 ON-SITE HOLDING TIME
 CHLORIDE, NITRATE, NITROGEN, COPPER
 SO CL₂ BOD MBAS COL
 CHK BY DISTRIBUTION
 BR
 M
 SL
 P
 O
 Other

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: _____ Date: 8/11/17 Time: 1400
 2. Relinquished By: _____ Date: 8-1-17 Time: 1745
 3. Relinquished By: _____ Date: 8-1-17 Time: 1745

Global IP:
 1. Received By: _____ Date: 8-1-17 Time: 1400
 2. Received By: _____ Date: 8-1-17 Time: 1745
 3. Received By: _____ Date: 8-1-17 Time: 1745

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 Page 1 of 2

Submission #: 17-21091

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO W / S

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received YES NO
 Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 8/11/17 4:50
 Temperature: (A) 0.2 °C (C) 0.5 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		0	0	0	0	0	0	0	0	0
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz				E	E	E	E		E	E
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
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 EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 8/11/17 4:50
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 2

Submission #: 1721091

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify) _____

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

FREE LIQUID: YES NO W/S

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

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

COC Received: YES NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 8/11/14 5

Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	<u>D</u>	<u>D</u>	<u>D</u>							
4oz / 8oz / 16oz PE UNPRES		<u>E</u>								
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	<u>E</u>	<u>F</u>	<u>E</u>							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>							
QT EPA 1664										
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 EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____

Sample Numbering Completed By: MM Date/Time: 8-11-14 1900

A = Actual / C = Corrected

Rev 21 05/23/2016 (S:\WPDoc\WordPerfect\LAB_DOC\FORMS\ISAMRE\rev 20)



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1721091-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-7-080117 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2017 17:45 Sampling Date: 08/01/2017 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-7-080117 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1721091-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-5 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2017 17:45 Sampling Date: 08/01/2017 07:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1721091-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-4 Sampled By: Blaine Tech of BAT	Receive Date: 08/01/2017 17:45 Sampling Date: 08/01/2017 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater 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: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1721091-04	COC Number: ---	Receive Date: 08/01/2017 17:45
	Project Number: JPL-GW	Sampling Date: 08/01/2017 08:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-12-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-12-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1721091-05	COC Number: ---	Receive Date: 08/01/2017 17:45
	Project Number: JPL-GW	Sampling Date: 08/01/2017 08:25
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: DUP-4-3Q17	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): DUP-4-3Q17
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1721091-06	COC Number: ---	Receive Date: 08/01/2017 17:45
	Project Number: JPL-GW	Sampling Date: 08/01/2017 09:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-12-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		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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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1721091-07	COC Number: ---	Receive Date: 08/01/2017 17:45
	Project Number: JPL-GW	Sampling Date: 08/01/2017 09:45
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-12-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-12-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1721091-08	COC Number: ---	Receive Date: 08/01/2017 17:45
	Project Number: JPL-GW	Sampling Date: 08/01/2017 11:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-11-4	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-11-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1721091-09	COC Number: ---	Receive Date: 08/01/2017 17:45
	Project Number: JPL-GW	Sampling Date: 08/01/2017 11:30
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-11-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-11-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1721091-10	COC Number: ---	Receive Date: 08/01/2017 17:45
	Project Number: JPL-GW	Sampling Date: 08/01/2017 11:50
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-11-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-11-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1721091-11	COC Number: ---	Receive Date: 08/01/2017 17:45
	Project Number: JPL-GW	Sampling Date: 08/01/2017 12:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: DUP-5-3Q17	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): DUP-5-3Q17
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1721091-12	COC Number: ---	Receive Date: 08/01/2017 17:45
	Project Number: JPL-GW	Sampling Date: 08/01/2017 12:50
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-11-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		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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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1721091-13	COC Number: ---	Receive Date: 08/01/2017 17:45
	Project Number: JPL-GW	Sampling Date: 08/01/2017 13:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: EB-7-080117	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Groundwater
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): EB-7-080117
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-01 Client Sample Name: JPL-GW, TB-7-080117, 8/1/2017 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-01	Client Sample Name: JPL-GW, TB-7-080117, 8/1/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-01	Client Sample Name: JPL-GW, TB-7-080117, 8/1/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	83.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	92.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	112	%	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	08/04/17	08/04/17 14:17	MGC	MS-V5	1	B[H0384

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-01	Client Sample Name: JPL-GW, TB-7-080117, 8/1/2017 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	08/04/17	08/04/17 14:17	MGC	MS-V5	1	B[H0384

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-02	Client Sample Name: JPL-GW, MW-12-5, 8/1/2017 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.28	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-02	Client Sample Name: JPL-GW, MW-12-5, 8/1/2017 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-02	Client Sample Name: JPL-GW, MW-12-5, 8/1/2017 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	93.2	%	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	08/04/17	08/04/17 11:36	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-02	Client Sample Name: JPL-GW, MW-12-5, 8/1/2017 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/04/17	08/04/17 11:36	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-02	Client Sample Name: JPL-GW, MW-12-5, 8/1/2017 7:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.7	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/11/17	08/11/17 16:40	EMW	IC6	1	B[H1247

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-03	Client Sample Name: JPL-GW, MW-12-4, 8/1/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	0.30	ug/L	0.50	0.17	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.41	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-03	Client Sample Name: JPL-GW, MW-12-4, 8/1/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-03	Client Sample Name: JPL-GW, MW-12-4, 8/1/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	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	08/04/17	08/04/17 14:40	MGC	MS-V5	1	B[H0384

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-03	Client Sample Name: JPL-GW, MW-12-4, 8/1/2017 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	08/04/17	08/04/17 14:40	MGC	MS-V5	1	B[H0384

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-03	Client Sample Name: JPL-GW, MW-12-4, 8/1/2017 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.6	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/11/17	08/11/17 17:36	EMW	IC6	1	B[H1247

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-04	Client Sample Name: JPL-GW, MW-12-3, 8/1/2017 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	0.40	ug/L	0.50	0.17	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.78	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-04	Client Sample Name: JPL-GW, MW-12-3, 8/1/2017 8:15:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-04	Client Sample Name: JPL-GW, MW-12-3, 8/1/2017 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.4	%	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	08/04/17	08/04/17 15:03	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-04	Client Sample Name: JPL-GW, MW-12-3, 8/1/2017 8:15:00AM, 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	08/04/17	08/04/17 15:03	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-04	Client Sample Name: JPL-GW, MW-12-3, 8/1/2017 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.2	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/11/17	08/11/17 17:49	EMW	IC6	1	B[H1247

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721091-04	Client Sample Name: JPL-GW, MW-12-3, 8/1/2017 8:15:00AM, 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	1.8	ug/L	3.0	0.50	EPA-200.8	1.2	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/01/17	08/01/17 21:42	EMW	KONE-1	1	B[H0140
2	EPA-200.8	08/03/17	08/04/17 03:12	MH1	PE-EL3	1	B[H0281

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-05	Client Sample Name: JPL-GW, DUP-4-3Q17, 8/1/2017 8:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	0.32	ug/L	0.50	0.17	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.63	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-05	Client Sample Name: JPL-GW, DUP-4-3Q17, 8/1/2017 8:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-05	Client Sample Name: JPL-GW, DUP-4-3Q17, 8/1/2017 8:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	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	08/04/17	08/04/17 15:26	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-05	Client Sample Name: JPL-GW, DUP-4-3Q17, 8/1/2017 8:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/04/17	08/04/17 15:26	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-05	Client Sample Name: JPL-GW, DUP-4-3Q17, 8/1/2017 8:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.9	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/11/17	08/11/17 18:31	EMW	IC6	1	B[H1247

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Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721091-05	Client Sample Name: JPL-GW, DUP-4-3Q17, 8/1/2017 8:25:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.4	ug/L	3.0	0.50	EPA-200.8	1.2	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/01/17	08/01/17 21:42	EMW	KONE-1	1	B[H0140
2	EPA-200.8	08/03/17	08/04/17 03:39	MH1	PE-EL3	1	B[H0281

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-06	Client Sample Name: JPL-GW, MW-12-2, 8/1/2017 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-06	Client Sample Name: JPL-GW, MW-12-2, 8/1/2017 9:15:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-06	Client Sample Name: JPL-GW, MW-12-2, 8/1/2017 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	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	08/04/17	08/04/17 15:49	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-06	Client Sample Name: JPL-GW, MW-12-2, 8/1/2017 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/04/17	08/04/17 15:49	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-06	Client Sample Name: JPL-GW, MW-12-2, 8/1/2017 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/11/17	08/11/17 18:45	EMW	IC6	1	B[H1247

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721091-06	Client Sample Name: JPL-GW, MW-12-2, 8/1/2017 9:15:00AM, 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	A07	1
Total Recoverable Chromium	1.9	ug/L	3.0	0.50	EPA-200.8	1.2	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/01/17	08/01/17 22:41	EMW	KONE-1	2	B[H0140
2	EPA-200.8	08/03/17	08/04/17 03:43	MH1	PE-EL3	1	B[H0281

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-07	Client Sample Name: JPL-GW, MW-12-1, 8/1/2017 9:45:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-07	Client Sample Name: JPL-GW, MW-12-1, 8/1/2017 9:45:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-07	Client Sample Name: JPL-GW, MW-12-1, 8/1/2017 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.2	%	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	08/04/17	08/04/17 16:12	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-07	Client Sample Name: JPL-GW, MW-12-1, 8/1/2017 9:45:00AM, 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	08/04/17	08/04/17 16:12	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-07	Client Sample Name: JPL-GW, MW-12-1, 8/1/2017 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/11/17	08/11/17 18:59	EMW	IC6	1	B[H1247

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721091-07	Client Sample Name: JPL-GW, MW-12-1, 8/1/2017 9:45:00AM, 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	2.9	ug/L	3.0	0.50	EPA-200.8	1.2	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/01/17	08/01/17 21:43	EMW	KONE-1	1	B[H0140
2	EPA-200.8	08/03/17	08/04/17 03:46	MH1	PE-EL3	1	B[H0281

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Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-08	Client Sample Name: JPL-GW, MW-11-4, 8/1/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-08	Client Sample Name: JPL-GW, MW-11-4, 8/1/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-08	Client Sample Name: JPL-GW, MW-11-4, 8/1/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/04/17	08/04/17 16:35	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-08	Client Sample Name: JPL-GW, MW-11-4, 8/1/2017 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	08/04/17	08/04/17 16:35	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-08	Client Sample Name: JPL-GW, MW-11-4, 8/1/2017 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	0.94	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/11/17	08/11/17 19:13	EMW	IC6	1	B[H1247

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Tidewater Inc.
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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-09	Client Sample Name: JPL-GW, MW-11-3, 8/1/2017 11:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-09	Client Sample Name: JPL-GW, MW-11-3, 8/1/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	0.13	ug/L	0.50	0.12	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-09	Client Sample Name: JPL-GW, MW-11-3, 8/1/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	87.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/04/17	08/04/17 16:58	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-09	Client Sample Name: JPL-GW, MW-11-3, 8/1/2017 11:30:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/04/17	08/04/17 16:58	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-09	Client Sample Name: JPL-GW, MW-11-3, 8/1/2017 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/11/17	08/11/17 19:26	EMW	IC6	1	B[H1247

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721091-09	Client Sample Name: JPL-GW, MW-11-3, 8/1/2017 11:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.9	ug/L	3.0	0.50	EPA-200.8	1.2	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/01/17	08/01/17 21:43	EMW	KONE-1	1	B[H0140
2	EPA-200.8	08/03/17	08/04/17 03:50	MH1	PE-EL3	1	B[H0281

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-10	Client Sample Name: JPL-GW, MW-11-2, 8/1/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-10	Client Sample Name: JPL-GW, MW-11-2, 8/1/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-10	Client Sample Name: JPL-GW, MW-11-2, 8/1/2017 11:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	90.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.6	%	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	08/04/17	08/04/17 17:21	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-10	Client Sample Name: JPL-GW, MW-11-2, 8/1/2017 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	08/04/17	08/04/17 17:21	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-10	Client Sample Name: JPL-GW, MW-11-2, 8/1/2017 11:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/11/17	08/11/17 19:40	EMW	IC6	1	B[H1247

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721091-10	Client Sample Name: JPL-GW, MW-11-2, 8/1/2017 11:50:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.1	ug/L	3.0	0.50	EPA-200.8	1.2	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/01/17	08/01/17 21:46	EMW	KONE-1	1	B[H0140
2	EPA-200.8	08/03/17	08/04/17 03:53	MH1	PE-EL3	1	B[H0281

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-11	Client Sample Name: JPL-GW, DUP-5-3Q17, 8/1/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-11	Client Sample Name: JPL-GW, DUP-5-3Q17, 8/1/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-11	Client Sample Name: JPL-GW, DUP-5-3Q17, 8/1/2017 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	88.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.2	%	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	08/04/17	08/04/17 17:44	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-11	Client Sample Name: JPL-GW, DUP-5-3Q17, 8/1/2017 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	08/04/17	08/04/17 17:44	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-11	Client Sample Name: JPL-GW, DUP-5-3Q17, 8/1/2017 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/11/17	08/11/17 19:54	EMW	IC6	1	B[H1247

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Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721091-11	Client Sample Name: JPL-GW, DUP-5-3Q17, 8/1/2017 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	2.0	ug/L	3.0	0.50	EPA-200.8	1.2	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/01/17	08/01/17 21:46	EMW	KONE-1	1	B[H0140
2	EPA-200.8	08/03/17	08/04/17 03:56	MH1	PE-EL3	1	B[H0281

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Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-12	Client Sample Name: JPL-GW, MW-11-1, 8/1/2017 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-12	Client Sample Name: JPL-GW, MW-11-1, 8/1/2017 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-12	Client Sample Name: JPL-GW, MW-11-1, 8/1/2017 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	89.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	93.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/04/17	08/04/17 18:07	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-12	Client Sample Name: JPL-GW, MW-11-1, 8/1/2017 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/04/17	08/04/17 18:07	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-12	Client Sample Name: JPL-GW, MW-11-1, 8/1/2017 12:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	21	mg/L	0.50	0.077	EPA-300.0	ND		1
Nitrate as N	0.53	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	41	mg/L	1.0	0.13	EPA-300.0	ND		1
Nitrite as N	0.022	mg/L	0.050	0.010	EPA-353.2	0.013	J	2
Perchlorate	0.71	ug/L	4.0	0.58	EPA-314.0	ND	J	3
ortho-Phosphate as P	ND	mg/L	0.050	0.017	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/01/17	08/02/17 07:50	OLH	IC5	1	B[H0197
2	EPA-353.2	08/02/17	08/02/17 08:14	RCC	KONE-1	1	B[H0292
3	EPA-314.0	08/11/17	08/11/17 20:08	EMW	IC6	1	B[H1247
4	EPA-365.1	08/02/17	08/02/17 08:39	RCC	KONE-1	1	B[H0288

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721091-12	Client Sample Name: JPL-GW, MW-11-1, 8/1/2017 12:50:00PM, 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	2.2	ug/L	3.0	0.50	EPA-200.8	1.2	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/01/17	08/01/17 21:46	EMW	KONE-1	1	B[H0140
2	EPA-200.8	08/03/17	08/04/17 04:00	MH1	PE-EL3	1	B[H0281

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Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-13 Client Sample Name: JPL-GW, EB-7-080117, 8/1/2017 1:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-13 Client Sample Name: JPL-GW, EB-7-080117, 8/1/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721091-13	Client Sample Name: JPL-GW, EB-7-080117, 8/1/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	85.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	106	%	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	08/04/17	08/04/17 18:30	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721091-13	Client Sample Name: JPL-GW, EB-7-080117, 8/1/2017 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	08/04/17	08/04/17 18:30	MGC	MS-V5	1	B[H0384

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721091-13	Client Sample Name: JPL-GW, EB-7-080117, 8/1/2017 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/11/17	08/11/17 20:22	EMW	IC6	1	B[H1247

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721091-13	Client Sample Name: JPL-GW, EB-7-080117, 8/1/2017 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	2.4	ug/L	3.0	0.50	EPA-200.8	1.2	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/01/17	08/01/17 21:46	EMW	KONE-1	1	B[H0140
2	EPA-200.8	08/03/17	08/04/17 04:03	MH1	PE-EL3	1	B[H0281

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0384						
Benzene	B[H0384-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0384-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0384-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0384-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0384-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0384-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0384-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0384-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0384-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0384-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0384-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0384-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0384-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0384-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0384-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0384-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B[H0384-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0384-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0384-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0384-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0384-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0384-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0384-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0384-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0384-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0384-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0384-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0384-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0384-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0384-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0384-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0384-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0384-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0384-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0384						
trans-1,3-Dichloropropene	B[H0384-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0384-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0384-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0384-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0384-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0384-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0384-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0384-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0384-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0384-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0384-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B[H0384-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	B[H0384-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0384-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0384-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0384-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B[H0384-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0384-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0384-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0384-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0384-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0384-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0384-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0384-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0384-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0384-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0384-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0384-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0384-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0384-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0384-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0384-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0384-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0384-BLK1	ND	ug/L	4.0	1.3	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0384]						
Ethyl t-butyl ether	B[H0384-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0384-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0384-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0384-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0384-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0384-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0384-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0384-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0384-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0384-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0384-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0384-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0384-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0384-BLK1	80.5	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0384-BLK1	98.7	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0384-BLK1	93.5	%	80 - 120 (LCL - UCL)		

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0384										
Benzene	B[H0384-BS1	LCS	24.370	25.000	ug/L	97.5		70 - 130		
Bromodichloromethane	B[H0384-BS1	LCS	20.810	25.000	ug/L	83.2		70 - 130		
Chlorobenzene	B[H0384-BS1	LCS	23.320	25.000	ug/L	93.3		70 - 130		
Chloroethane	B[H0384-BS1	LCS	23.720	25.000	ug/L	94.9		70 - 130		
1,4-Dichlorobenzene	B[H0384-BS1	LCS	24.450	25.000	ug/L	97.8		70 - 130		
1,1-Dichloroethane	B[H0384-BS1	LCS	24.770	25.000	ug/L	99.1		70 - 130		
1,1-Dichloroethene	B[H0384-BS1	LCS	26.790	25.000	ug/L	107		70 - 130		
Toluene	B[H0384-BS1	LCS	23.760	25.000	ug/L	95.0		70 - 130		
Trichloroethene	B[H0384-BS1	LCS	25.710	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0384-BS1	LCS	10.010	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	B[H0384-BS1	LCS	8.9000	10.000	ug/L	89.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0384-BS1	LCS	10.430	10.000	ug/L	104		80 - 120		

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0384]		Used client sample: Y - Description: MW-12-5, 08/01/2017 07:30								
Benzene	MS	1721091-02	ND	22.850	25.000	ug/L		91.4		70 - 130
	MSD	1721091-02	ND	24.250	25.000	ug/L	5.9	97.0	20	70 - 130
Bromodichloromethane	MS	1721091-02	ND	25.180	25.000	ug/L		101		70 - 130
	MSD	1721091-02	ND	23.080	25.000	ug/L	8.7	92.3	20	70 - 130
Chlorobenzene	MS	1721091-02	ND	22.550	25.000	ug/L		90.2		70 - 130
	MSD	1721091-02	ND	22.730	25.000	ug/L	0.8	90.9	20	70 - 130
Chloroethane	MS	1721091-02	ND	26.760	25.000	ug/L		107		70 - 130
	MSD	1721091-02	ND	24.510	25.000	ug/L	8.8	98.0	20	70 - 130
1,4-Dichlorobenzene	MS	1721091-02	ND	23.310	25.000	ug/L		93.2		70 - 130
	MSD	1721091-02	ND	27.770	25.000	ug/L	17.5	111	20	70 - 130
1,1-Dichloroethane	MS	1721091-02	ND	27.440	25.000	ug/L		110		70 - 130
	MSD	1721091-02	ND	24.640	25.000	ug/L	10.8	98.6	20	70 - 130
1,1-Dichloroethene	MS	1721091-02	ND	29.760	25.000	ug/L		119		70 - 130
	MSD	1721091-02	ND	26.350	25.000	ug/L	12.2	105	20	70 - 130
Toluene	MS	1721091-02	ND	27.150	25.000	ug/L		109		70 - 130
	MSD	1721091-02	ND	25.800	25.000	ug/L	5.1	103	20	70 - 130
Trichloroethene	MS	1721091-02	ND	27.320	25.000	ug/L		109		70 - 130
	MSD	1721091-02	ND	26.210	25.000	ug/L	4.1	105	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1721091-02	ND	8.7800	10.000	ug/L		87.8		75 - 125
	MSD	1721091-02	ND	9.2700	10.000	ug/L	5.4	92.7		75 - 125
Toluene-d8 (Surrogate)	MS	1721091-02	ND	10.390	10.000	ug/L		104		80 - 120
	MSD	1721091-02	ND	9.6800	10.000	ug/L	7.1	96.8		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1721091-02	ND	8.7800	10.000	ug/L		87.8		80 - 120
	MSD	1721091-02	ND	9.3900	10.000	ug/L	6.7	93.9		80 - 120

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0384]						
Chloroacetonitrile	B[H0384-BLK1	0	ug/L			
1-Chlorobutane	B[H0384-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0384-BLK1	0	ug/L			
Methyl acrylate	B[H0384-BLK1	0	ug/L			
Nitrobenzene	B[H0384-BLK1	0	ug/L			
2-Nitropropane	B[H0384-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0197]						
Chloride	B[H0197-BLK1	ND	mg/L	0.50	0.077	
Nitrate as N	B[H0197-BLK1	ND	mg/L	0.10	0.021	
Sulfate	B[H0197-BLK1	ND	mg/L	1.0	0.13	
QC Batch ID: B[H0288]						
ortho-Phosphate as P	B[H0288-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B[H0292]						
Nitrite as N	B[H0292-BLK1	0.012671	mg/L	0.050	0.010	J
QC Batch ID: B[H1247]						
Perchlorate	B[H1247-BLK1	ND	ug/L	4.0	0.58	

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0197]										
Chloride	B[H0197-BS1	LCS	51.668	50.000	mg/L	103		90 - 110		
Nitrate as N	B[H0197-BS1	LCS	5.1450	5.0000	mg/L	103		90 - 110		
Sulfate	B[H0197-BS1	LCS	102.97	100.00	mg/L	103		90 - 110		
QC Batch ID: B[H0288]										
ortho-Phosphate as P	B[H0288-BS1	LCS	0.18929	0.20000	mg/L	94.6		90 - 110		
QC Batch ID: B[H0292]										
Nitrite as N	B[H0292-BS1	LCS	0.52280	0.50000	mg/L	105		90 - 110		
QC Batch ID: B[H1247]										
Perchlorate	B[H1247-BS1	LCS	8.9526	10.000	ug/L	89.5		85 - 115		

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0197]		Used client sample: N								
Chloride	DUP	1721089-19	78.030	77.737		mg/L	0.4		10	
	MS	1721089-19	78.030	130.33	50.505	mg/L		104		80 - 120
	MSD	1721089-19	78.030	130.53	50.505	mg/L	0.2	104	10	80 - 120
Nitrate as N	DUP	1721089-19	5.7270	5.6450		mg/L	1.4		10	
	MS	1721089-19	5.7270	10.892	5.0505	mg/L		102		80 - 120
	MSD	1721089-19	5.7270	10.874	5.0505	mg/L	0.2	102	10	80 - 120
Sulfate	DUP	1721089-19	148.97	148.48		mg/L	0.3		10	
	MS	1721089-19	148.97	254.47	101.01	mg/L		104		80 - 120
	MSD	1721089-19	148.97	255.20	101.01	mg/L	0.3	105	10	80 - 120
QC Batch ID: B[H0288]		Used client sample: Y - Description: MW-11-1, 08/01/2017 12:50								
ortho-Phosphate as P	DUP	1721091-12	ND	ND		mg/L			10	
	MS	1721091-12	ND	0.21775	0.21053	mg/L		103		90 - 110
	MSD	1721091-12	ND	0.21904	0.21053	mg/L	0.6	104	10	90 - 110
QC Batch ID: B[H0292]		Used client sample: Y - Description: MW-11-1, 08/01/2017 12:50								
Nitrite as N	DUP	1721091-12	0.021578	0.020516		mg/L	5.0		10	J
	MS	1721091-12	0.021578	0.56739	0.52632	mg/L		104		90 - 110
	MSD	1721091-12	0.021578	0.56779	0.52632	mg/L	0.1	104	10	90 - 110
QC Batch ID: B[H1247]		Used client sample: Y - Description: MW-12-5, 08/01/2017 07:30								
Perchlorate	DUP	1721091-02	2.6801	2.3390		ug/L	13.6		15	J
	MS	1721091-02	2.6801	12.461	10.101	ug/L		96.8		80 - 120
	MSD	1721091-02	2.6801	13.099	10.101	ug/L	5.0	103	15	80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0140]						
Hexavalent Chromium	B[H0140-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: B[H0281]						
Total Recoverable Chromium	B[H0281-BLK1	1.2170	ug/L	3.0	0.50	J

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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	Quals
								Percent Recovery	RPD		
QC Batch ID: B[H0140]											
Hexavalent Chromium	B[H0140-BS1	LCS	0.049378	0.050000	mg/L	98.8		85	115		
QC Batch ID: B[H0281]											
Total Recoverable Chromium	B[H0281-BS1	LCS	40.812	40.000	ug/L	102		85	115		

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0140]		Used client sample: Y - Description: MW-12-3, 08/01/2017 08:15								
Hexavalent Chromium	DUP	1721091-04	ND	ND		mg/L			10	
	MS	1721091-04	ND	0.051364	0.052632	mg/L		97.6		85 - 115
	MSD	1721091-04	ND	0.051611	0.052632	mg/L	0.5	98.1	10	85 - 115
QC Batch ID: B[H0281]		Used client sample: Y - Description: MW-12-3, 08/01/2017 08:15								
Total Recoverable Chromium	DUP	1721091-04	1.8110	1.7310		ug/L	4.5		20	J
	MS	1721091-04	1.8110	41.021	40.000	ug/L		98.0		70 - 130
	MSD	1721091-04	1.8110	40.241	40.000	ug/L	1.9	96.1	20	70 - 130

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Reported: 08/15/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 08/17/2017

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 3Q17
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1721317
Invoice ID: B276594

Enclosed are the results of analyses for samples received by the laboratory on 8/2/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Stuart Buttram
Technical Director

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

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Chain of Custody Form

***Required Fields**

Report To: Tidewater, Inc.
 Client: David Conner
 Attn: David Conner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: (626) 298-5715 Fax: (614) 792-2897
 Email Address: david.conner@tidewater.net
 Submission #: 1721317

Project Description: JPL-GW Monitoring
 Project Code: 3Q17
 Sampler(s): Blaine Tech
Blaine Tech

Analysis Requested

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

Billing

Client: The Bodhi Group
 Attn: Steve Gopinath
 Address: 5480 Baltimore Drive, Suite 209
 City: La Mesa State: CA Zip: 91948

Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Notes

CHK BY: *MS/MSD*
MS/MSD
 SUB-OUT

DO C₂ BOD MBAS COT

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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: _____ Date: 8-2-17 Time: 1340
 2. Relinquished By: _____ Date: 8-2-17 Time: 1820
 3. Relinquished By: _____ Date: 8-2-17 Time: 1820

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 Page 1 of 1

Submission #: 17-21317

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO (W) / S

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received
 YES NO

Emissivity: 0.95 Container: PE Thermometer ID: 208
 Temperature: (A) 0.5 °C / (C) 0.8 °C

Date/Time: 8/2/825 Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		D	D	D	D	D	AB	JK	D	
4oz / 8oz / 16oz PE UNPRES		E						L		
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F	E	E	E	E	CD	MA	E	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC		A-1	ABC	
QT EPA 1664										
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 EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 8-2 1910
 A = Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1721317-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-8-080217 Sampled By: Blaine Tech of BAT	Receive Date: 08/02/2017 18:20 Sampling Date: 08/02/2017 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-8-080217 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1721317-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-13 Sampled By: Blaine Tech of BAT	Receive Date: 08/02/2017 18:20 Sampling Date: 08/02/2017 08:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-13 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1721317-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-6-3Q17 Sampled By: Blaine Tech of BAT	Receive Date: 08/02/2017 18:20 Sampling Date: 08/02/2017 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-6-3Q17 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1721317-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-6 Sampled By: Blaine Tech of BAT	Receive Date: 08/02/2017 18:20 Sampling Date: 08/02/2017 09:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1721317-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-7-3Q17 Sampled By: Blaine Tech of BAT	Receive Date: 08/02/2017 18:20 Sampling Date: 08/02/2017 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-7-3Q17 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1721317-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-5 Sampled By: Blaine Tech of BAT	Receive Date: 08/02/2017 18:20 Sampling Date: 08/02/2017 11:01 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1721317-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-15 Sampled By: Blaine Tech of BAT	Receive Date: 08/02/2017 18:20 Sampling Date: 08/02/2017 11:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-15 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1721317-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-8 Sampled By: Blaine Tech of BAT	Receive Date: 08/02/2017 18:20 Sampling Date: 08/02/2017 13:01 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1721317-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-8-080217 Sampled By: Blaine Tech of BAT	Receive Date: 08/02/2017 18:20 Sampling Date: 08/02/2017 13:15 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-8-080217 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-01	Client Sample Name: JPL-GW, TB-8-080217, 8/2/2017 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-01	Client Sample Name: JPL-GW, TB-8-080217, 8/2/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-01	Client Sample Name: JPL-GW, TB-8-080217, 8/2/2017 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/07/17	08/07/17 16:57	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721317-01	Client Sample Name: JPL-GW, TB-8-080217, 8/2/2017 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	08/07/17	08/07/17 16:57	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-02	Client Sample Name: JPL-GW, MW-13, 8/2/2017 8:50:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	0.28	ug/L	0.50	0.17	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	2.9	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-02	Client Sample Name: JPL-GW, MW-13, 8/2/2017 8:50:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.31	ug/L	0.50	0.19	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-02	Client Sample Name: JPL-GW, MW-13, 8/2/2017 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	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	08/07/17	08/07/17 17:20	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721317-02	Client Sample Name: JPL-GW, MW-13, 8/2/2017 8:50:00AM, 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	08/07/17	08/07/17 17:20	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721317-02	Client Sample Name: JPL-GW, MW-13, 8/2/2017 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	53	mg/L	0.50	0.077	EPA-300.0	ND		1
Nitrate as N	4.8	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	49	mg/L	1.0	0.13	EPA-300.0	ND		1
Nitrite as N	0.015	mg/L	0.050	0.010	EPA-353.2	0.012	J	2
Perchlorate	220	ug/L	80	12	EPA-314.0	ND	A07	3
ortho-Phosphate as P	0.044	mg/L	0.050	0.017	EPA-365.1	ND	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/02/17	08/03/17 04:39	OLH	IC5	1	B[H0315
2	EPA-353.2	08/03/17	08/03/17 08:42	RCC	KONE-1	1	B[H0398
3	EPA-314.0	08/13/17	08/14/17 08:25	OLH	IC6	20	B[H1278
4	EPA-365.1	08/03/17	08/03/17 09:57	RCC	KONE-1	1	B[H0397

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721317-02	Client Sample Name: JPL-GW, MW-13, 8/2/2017 8:50:00AM, Blaine Tech							
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	1300	ug/L	3.0	0.50	EPA-200.8	0.52		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/02/17	08/02/17 20:32	EMW	KONE-1	1	B[H0293
2	EPA-200.8	08/04/17	08/09/17 02:19	ARD	PE-EL3	1	B[H0425

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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-03 **Client Sample Name:** JPL-GW, DUP-6-3Q17, 8/2/2017 9:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	0.27	ug/L	0.50	0.17	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	2.8	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-03	Client Sample Name: JPL-GW, DUP-6-3Q17, 8/2/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.28	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.31	ug/L	0.50	0.19	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-03	Client Sample Name: JPL-GW, DUP-6-3Q17, 8/2/2017 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.8	%	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	08/07/17	08/07/17 17:43	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721317-03	Client Sample Name: JPL-GW, DUP-6-3Q17, 8/2/2017 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	08/07/17	08/07/17 17:43	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721317-03	Client Sample Name: JPL-GW, DUP-6-3Q17, 8/2/2017 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	230	ug/L	80	12	EPA-314.0	ND	A07	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/17	08/14/17 08:39	OLH	IC6	20	B[H1278

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Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721317-03	Client Sample Name: JPL-GW, DUP-6-3Q17, 8/2/2017 9:00:00AM, Blaine Tech							
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	680	ug/L	3.0	0.50	EPA-200.8	0.52		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/02/17	08/02/17 20:14	EMW	KONE-1	1	B[H0293
2	EPA-200.8	08/04/17	08/09/17 02:23	ARD	PE-EL3	1	B[H0425

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Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-04	Client Sample Name: JPL-GW, MW-6, 8/2/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.48	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-04	Client Sample Name: JPL-GW, MW-6, 8/2/2017 9:50:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.57	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	2.6	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-04	Client Sample Name: JPL-GW, MW-6, 8/2/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/07/17	08/08/17 02:55	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721317-04	Client Sample Name: JPL-GW, MW-6, 8/2/2017 9:50:00AM, 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	08/07/17	08/08/17 02:55	MGC	MS-V5	1	B[H0652

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721317-04	Client Sample Name: JPL-GW, MW-6, 8/2/2017 9:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.7	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/17	08/16/17 11:37	OLH	IC6	1	B[H1593

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721317-04	Client Sample Name: JPL-GW, MW-6, 8/2/2017 9:50:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	30	ug/L	3.0	0.50	EPA-200.8	0.52		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/02/17	08/02/17 20:14	EMW	KONE-1	1	B[H0293
2	EPA-200.8	08/04/17	08/09/17 02:26	ARD	PE-EL3	1	B[H0425

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-05	Client Sample Name: JPL-GW, DUP-7-3Q17, 8/2/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.50	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-05 **Client Sample Name:** JPL-GW, DUP-7-3Q17, 8/2/2017 10:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.49	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	2.7	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-05	Client Sample Name: JPL-GW, DUP-7-3Q17, 8/2/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	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)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/07/17	08/08/17 03:18	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721317-05	Client Sample Name: JPL-GW, DUP-7-3Q17, 8/2/2017 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/07/17	08/08/17 03:18	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721317-05	Client Sample Name: JPL-GW, DUP-7-3Q17, 8/2/2017 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/17	08/16/17 11:51	OLH	IC6	1	B[H1593

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721317-05	Client Sample Name: JPL-GW, DUP-7-3Q17, 8/2/2017 10:00:00AM, 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	ND		1
Total Recoverable Chromium	120	ug/L	3.0	0.50	EPA-200.8	0.52		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/02/17	08/02/17 20:14	EMW	KONE-1	1	B[H0293
2	EPA-200.8	08/04/17	08/09/17 02:30	ARD	PE-EL3	1	B[H0425

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Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-06	Client Sample Name: JPL-GW, MW-5, 8/2/2017 11:01:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-06	Client Sample Name: JPL-GW, MW-5, 8/2/2017 11:01:00AM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-06	Client Sample Name: JPL-GW, MW-5, 8/2/2017 11:01:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/07/17	08/08/17 03:41	MGC	MS-V5	1	B[H0523

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721317-06	Client Sample Name: JPL-GW, MW-5, 8/2/2017 11:01:00AM, 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	08/07/17	08/08/17 03:41	MGC	MS-V5	1	B[H0523

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721317-06	Client Sample Name: JPL-GW, MW-5, 8/2/2017 11:01:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/17	08/13/17 15:56	OLH	IC6	1	B[H1278

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721317-06	Client Sample Name: JPL-GW, MW-5, 8/2/2017 11:01:00AM, 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	1.2	ug/L	3.0	0.50	EPA-200.8	0.52	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	08/02/17	08/02/17 20:14	EMW	KONE-1	1	B[H0293
2	EPA-200.8	08/04/17	08/09/17 02:33	ARD	PE-EL3	1	B[H0425

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721317-07	Client Sample Name: JPL-GW, MW-15, 8/2/2017 11:50:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	5.9	ug/L	3.0	0.50	EPA-200.8	0.52		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/02/17	08/02/17 20:14	EMW	KONE-1	1	B[H0293
2	EPA-200.8	08/04/17	08/09/17 01:45	ARD	PE-EL3	1	B[H0425

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-08	Client Sample Name: JPL-GW, MW-8, 8/2/2017 1:01:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-08	Client Sample Name: JPL-GW, MW-8, 8/2/2017 1:01:00PM, 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	0.14	ug/L	0.50	0.14	EPA-524.2	ND	J	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-08	Client Sample Name: JPL-GW, MW-8, 8/2/2017 1:01:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	89.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.8	%	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	08/07/17	08/07/17 14:16	MGC	MS-V5	1	B[H0523

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721317-08	Client Sample Name: JPL-GW, MW-8, 8/2/2017 1:01:00PM, 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	08/07/17	08/07/17 14:16	MGC	MS-V5	1	B[H0523

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721317-08	Client Sample Name: JPL-GW, MW-8, 8/2/2017 1:01:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	14	mg/L	0.50	0.077	EPA-300.0	ND		1
Nitrate as N	2.6	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	42	mg/L	1.0	0.13	EPA-300.0	ND		1
Nitrite as N	0.014	mg/L	0.050	0.010	EPA-353.2	0.012	J	2
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		3
ortho-Phosphate as P	ND	mg/L	0.050	0.017	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/02/17	08/03/17 04:57	OLH	IC5	1	B[H0315
2	EPA-353.2	08/03/17	08/03/17 08:42	RCC	KONE-1	1	B[H0398
3	EPA-314.0	08/13/17	08/14/17 11:01	OLH	IC6	1	B[H1278
4	EPA-365.1	08/03/17	08/03/17 09:57	RCC	KONE-1	1	B[H0397

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721317-08	Client Sample Name: JPL-GW, MW-8, 8/2/2017 1:01:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00083	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	0.52	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/02/17	08/02/17 20:20	EMW	KONE-1	1	B[H0295
2	EPA-200.8	08/04/17	08/09/17 02:37	ARD	PE-EL3	1	B[H0425

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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-09	Client Sample Name: JPL-GW, EB-8-080217, 8/2/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-09 Client Sample Name: JPL-GW, EB-8-080217, 8/2/2017 1:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721317-09	Client Sample Name: JPL-GW, EB-8-080217, 8/2/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/07/17	08/08/17 04:04	MGC	MS-V5	1	B[H0523

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721317-09	Client Sample Name: JPL-GW, EB-8-080217, 8/2/2017 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	08/07/17	08/08/17 04:04	MGC	MS-V5	1	B[H0523

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Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721317-09	Client Sample Name: JPL-GW, EB-8-080217, 8/2/2017 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/13/17	08/14/17 09:20	OLH	IC6	1	B[H1278

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Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721317-09	Client Sample Name: JPL-GW, EB-8-080217, 8/2/2017 1:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	EPA-200.8	0.52	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/02/17	08/02/17 20:21	EMW	KONE-1	1	B[H0295
2	EPA-200.8	08/04/17	08/09/17 02:40	ARD	PE-EL3	1	B[H0425

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Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0523						
Benzene	B[H0523-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0523-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0523-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0523-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0523-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0523-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0523-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0523-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0523-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0523-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0523-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0523-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0523-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0523-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0523-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0523-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B[H0523-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0523-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0523-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0523-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0523-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0523-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0523-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0523-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0523-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0523-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0523-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0523-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0523-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0523-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0523-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0523-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0523-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0523-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0523						
trans-1,3-Dichloropropene	B[H0523-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0523-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0523-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0523-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0523-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0523-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0523-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0523-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0523-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0523-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0523-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B[H0523-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	B[H0523-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0523-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0523-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0523-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B[H0523-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0523-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0523-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0523-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0523-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0523-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0523-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0523-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0523-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0523-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0523-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0523-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0523-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0523-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0523-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0523-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0523-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0523-BLK1	ND	ug/L	4.0	1.3	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0523]						
Ethyl t-butyl ether	B[H0523-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0523-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0523-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0523-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0523-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0523-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0523-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0523-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0523-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0523-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0523-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0523-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0523-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0523-BLK1	96.5	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0523-BLK1	97.7	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0523-BLK1	100	%	80 - 120 (LCL - UCL)		

QC Batch ID: B[H0652]						
Benzene	B[H0652-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0652-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0652-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0652-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0652-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0652-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0652-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0652-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0652-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0652-BLK1	ND	ug/L	0.50	0.093	

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Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0652]						
Dibromochloromethane	B[H0652-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0652-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0652-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0652-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0652-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0652-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0652-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0652-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0652-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0652-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0652-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0652-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0652-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B[H0652-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0652-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0652-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0652-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0652-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0652-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0652-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.21	
1,1,2,2-Tetrachloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B[H0652-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0652-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.15	

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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0652]						
1,1,1-Trichloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0652-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0652-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0652-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0652-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0652-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0652-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0652-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0652-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0652-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0652-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0652-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0652-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0652-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0652-BLK1	ND	ug/L	4.0	1.3	
Ethyl t-butyl ether	B[H0652-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0652-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0652-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0652-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0652-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0652-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0652-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0652-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0652-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0652-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0652-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0652-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0652-BLK1	101	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0652-BLK1	99.4	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0652-BLK1	97.4	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0523										
Benzene	B[H0523-BS1	LCS	29.290	25.000	ug/L	117		70 - 130		
Bromodichloromethane	B[H0523-BS1	LCS	26.030	25.000	ug/L	104		70 - 130		
Chlorobenzene	B[H0523-BS1	LCS	25.430	25.000	ug/L	102		70 - 130		
Chloroethane	B[H0523-BS1	LCS	30.040	25.000	ug/L	120		70 - 130		
1,4-Dichlorobenzene	B[H0523-BS1	LCS	24.430	25.000	ug/L	97.7		70 - 130		
1,1-Dichloroethane	B[H0523-BS1	LCS	28.710	25.000	ug/L	115		70 - 130		
1,1-Dichloroethene	B[H0523-BS1	LCS	29.500	25.000	ug/L	118		70 - 130		
Toluene	B[H0523-BS1	LCS	26.990	25.000	ug/L	108		70 - 130		
Trichloroethene	B[H0523-BS1	LCS	26.040	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0523-BS1	LCS	9.3900	10.000	ug/L	93.9		75 - 125		
Toluene-d8 (Surrogate)	B[H0523-BS1	LCS	10.050	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0523-BS1	LCS	9.9800	10.000	ug/L	99.8		80 - 120		

QC Batch ID: B[H0652										
Benzene	B[H0652-BS1	LCS	25.940	25.000	ug/L	104		70 - 130		
Bromodichloromethane	B[H0652-BS1	LCS	27.370	25.000	ug/L	109		70 - 130		
Chlorobenzene	B[H0652-BS1	LCS	23.650	25.000	ug/L	94.6		70 - 130		
Chloroethane	B[H0652-BS1	LCS	24.790	25.000	ug/L	99.2		70 - 130		
1,4-Dichlorobenzene	B[H0652-BS1	LCS	23.870	25.000	ug/L	95.5		70 - 130		
1,1-Dichloroethane	B[H0652-BS1	LCS	26.510	25.000	ug/L	106		70 - 130		
1,1-Dichloroethene	B[H0652-BS1	LCS	28.240	25.000	ug/L	113		70 - 130		
Toluene	B[H0652-BS1	LCS	25.240	25.000	ug/L	101		70 - 130		
Trichloroethene	B[H0652-BS1	LCS	24.440	25.000	ug/L	97.8		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0652-BS1	LCS	11.310	10.000	ug/L	113		75 - 125		
Toluene-d8 (Surrogate)	B[H0652-BS1	LCS	10.100	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0652-BS1	LCS	10.110	10.000	ug/L	101		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0523] and Used client sample: Y - Description: MW-8, 08/02/2017 13:01.

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: B[H0652] and Used client sample: Y - Description: MW-10, 08/03/2017 07:15.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0652]		Used client sample: Y - Description: MW-10, 08/03/2017 07:15								
1,1-Dichloroethene	MS	1721528-02	ND	29.470	25.000	ug/L		118		70 - 130
	MSD	1721528-02	ND	31.720	25.000	ug/L	7.4	127	20	70 - 130
Toluene	MS	1721528-02	ND	26.730	25.000	ug/L		107		70 - 130
	MSD	1721528-02	ND	28.790	25.000	ug/L	7.4	115	20	70 - 130
Trichloroethene	MS	1721528-02	ND	26.300	25.000	ug/L		105		70 - 130
	MSD	1721528-02	ND	28.750	25.000	ug/L	8.9	115	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1721528-02	ND	10.090	10.000	ug/L		101		75 - 125
	MSD	1721528-02	ND	9.8300	10.000	ug/L	2.6	98.3		75 - 125
Toluene-d8 (Surrogate)	MS	1721528-02	ND	10.110	10.000	ug/L		101		80 - 120
	MSD	1721528-02	ND	10.020	10.000	ug/L	0.9	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1721528-02	ND	9.6400	10.000	ug/L		96.4		80 - 120
	MSD	1721528-02	ND	10.000	10.000	ug/L	3.7	100		80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0523]

Chloroacetonitrile	B[H0523-BLK1	0	ug/L			
1-Chlorobutane	B[H0523-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0523-BLK1	0	ug/L			
Methyl acrylate	B[H0523-BLK1	0	ug/L			
Nitrobenzene	B[H0523-BLK1	0	ug/L			
2-Nitropropane	B[H0523-BLK1	0	ug/L			

QC Batch ID: B[H0652]

Chloroacetonitrile	B[H0652-BLK1	0	ug/L			
1-Chlorobutane	B[H0652-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0652-BLK1	0	ug/L			
Methyl acrylate	B[H0652-BLK1	0	ug/L			
Nitrobenzene	B[H0652-BLK1	0	ug/L			
2-Nitropropane	B[H0652-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0315]						
Chloride	B[H0315-BLK1	ND	mg/L	0.50	0.077	
Nitrate as N	B[H0315-BLK1	ND	mg/L	0.10	0.021	
Sulfate	B[H0315-BLK1	ND	mg/L	1.0	0.13	
QC Batch ID: B[H0397]						
ortho-Phosphate as P	B[H0397-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B[H0398]						
Nitrite as N	B[H0398-BLK1	0.012280	mg/L	0.050	0.010	J
QC Batch ID: B[H1278]						
Perchlorate	B[H1278-BLK1	ND	ug/L	4.0	0.58	
QC Batch ID: B[H1593]						
Perchlorate	B[H1593-BLK1	ND	ug/L	4.0	0.58	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0315]										
Chloride	B[H0315-BS1	LCS	51.965	50.000	mg/L	104		90 - 110		
Nitrate as N	B[H0315-BS1	LCS	5.0880	5.0000	mg/L	102		90 - 110		
Sulfate	B[H0315-BS1	LCS	103.87	100.00	mg/L	104		90 - 110		
QC Batch ID: B[H0397]										
ortho-Phosphate as P	B[H0397-BS1	LCS	0.19753	0.20000	mg/L	98.8		90 - 110		
QC Batch ID: B[H0398]										
Nitrite as N	B[H0398-BS1	LCS	0.52196	0.50000	mg/L	104		90 - 110		
QC Batch ID: B[H1278]										
Perchlorate	B[H1278-BS1	LCS	10.139	10.000	ug/L	101		85 - 115		
QC Batch ID: B[H1593]										
Perchlorate	B[H1593-BS1	LCS	9.5234	10.000	ug/L	95.2		85 - 115		

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0315]		Used client sample: Y - Description: MW-8, 08/02/2017 13:01								
Chloride	DUP	1721317-08	13.538	13.556		mg/L	0.1		10	
	MS	1721317-08	13.538	67.652	50.000	mg/L		108		80 - 120
	MSD	1721317-08	13.538	67.576	50.000	mg/L	0.1	108	10	80 - 120
Nitrate as N	DUP	1721317-08	2.5610	2.5450		mg/L	0.6		10	
	MS	1721317-08	2.5610	7.6870	5.0000	mg/L		103		80 - 120
	MSD	1721317-08	2.5610	7.6800	5.0000	mg/L	0.1	102	10	80 - 120
Sulfate	DUP	1721317-08	42.053	42.191		mg/L	0.3		10	
	MS	1721317-08	42.053	150.29	100.00	mg/L		108		80 - 120
	MSD	1721317-08	42.053	150.01	100.00	mg/L	0.2	108	10	80 - 120
QC Batch ID: B[H0397]		Used client sample: Y - Description: MW-8, 08/02/2017 13:01								
ortho-Phosphate as P	DUP	1721317-08	ND	ND		mg/L			10	
	MS	1721317-08	ND	0.21971	0.21053	mg/L		104		90 - 110
	MSD	1721317-08	ND	0.21473	0.21053	mg/L	2.3	102	10	90 - 110
QC Batch ID: B[H0398]		Used client sample: Y - Description: MW-8, 08/02/2017 13:01								
Nitrite as N	DUP	1721317-08	0.013901	0.013888		mg/L	0.1		10	J
	MS	1721317-08	0.013901	0.55334	0.52632	mg/L		102		90 - 110
	MSD	1721317-08	0.013901	0.54764	0.52632	mg/L	1.0	101	10	90 - 110
QC Batch ID: B[H1278]		Used client sample: Y - Description: MW-5, 08/02/2017 11:01								
Perchlorate	DUP	1721317-06	ND	ND		ug/L			15	
	MS	1721317-06	ND	10.602	10.101	ug/L		105		80 - 120
	MSD	1721317-06	ND	10.364	10.101	ug/L	2.3	103	15	80 - 120
QC Batch ID: B[H1593]		Used client sample: N								
Perchlorate	DUP	1721832-01	ND	ND		ug/L			15	
	MS	1721832-01	ND	10.554	10.101	ug/L		104		80 - 120
	MSD	1721832-01	ND	10.665	10.101	ug/L	1.1	106	15	80 - 120

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0293]						
Hexavalent Chromium	B[H0293-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: B[H0295]						
Hexavalent Chromium	B[H0295-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: B[H0425]						
Total Recoverable Chromium	B[H0425-BLK1	0.52500	ug/L	3.0	0.50	J

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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0293										
Hexavalent Chromium	B[H0293-BS1	LCS	0.049408	0.050000	mg/L	98.8		85	115	
QC Batch ID: B[H0295										
Hexavalent Chromium	B[H0295-BS1	LCS	0.049294	0.050000	mg/L	98.6		85	115	
QC Batch ID: B[H0425										
Total Recoverable Chromium	B[H0425-BS1	LCS	40.894	40.000	ug/L	102		85	115	

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Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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	Percent Recovery	
QC Batch ID: B[H0293]		Used client sample: Y - Description: MW-15, 08/02/2017 11:50								
Hexavalent Chromium	DUP	1721317-07	ND	0.00083800		mg/L			10	J
	MS	1721317-07	ND	0.051947	0.052632	mg/L		98.7	85 - 115	
	MSD	1721317-07	ND	0.052284	0.052632	mg/L	0.6	99.3	10	85 - 115
QC Batch ID: B[H0295]		Used client sample: Y - Description: MW-8, 08/02/2017 13:01								
Hexavalent Chromium	DUP	1721317-08	0.00083200	0.00081000		mg/L	2.7		10	J
	MS	1721317-08	0.00083200	0.051906	0.052632	mg/L		97.0	85 - 115	
	MSD	1721317-08	0.00083200	0.051767	0.052632	mg/L	0.3	96.8	10	85 - 115
QC Batch ID: B[H0425]		Used client sample: Y - Description: MW-15, 08/02/2017 11:50								
Total Recoverable Chromium	DUP	1721317-07	5.9190	5.7850		ug/L	2.3		20	
	MS	1721317-07	5.9190	44.553	40.000	ug/L		96.6	70 - 130	
	MSD	1721317-07	5.9190	46.190	40.000	ug/L	3.6	101	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2017 17:12
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 08/18/2017

David Conner

Tidewater Inc.

3761 Attucks Drive

Powell, OH 43065

Client Project: 3Q17

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 1721528

Invoice ID: B276711

Enclosed are the results of analyses for samples received by the laboratory on 8/3/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Stuart Buttram
Technical Director

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

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Chain of Custody Form

BC Laboratories, Inc.

Page 1 of 1

Report To: Tidewater, Inc.
Client: David Conner
Attn: David Conner
Street Address: 3761 Attucks Drive
City: Powell **State:** OH **Zip:** 43065
Phone: (626) 298-5715 **Fax:** (614) 792-2897
Email Address: david.conner@tidet2o.net
Submission #: 17-21528

Project Description: JPL-GW Monitoring
Project Code: 3Q17
Sampler (s): Blaine Tech
Think Heav

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-9-080317	08/03/17	0700	GW
-2	MW-10		0715	GW
-3	MW-10		0830	GW
-4	MW-7		0935	GW
-5	FB-9-080317		0945	GW

Analysis Requested

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

Notes: MS/MSD
MS/MSD
SHIP BY DISTRIBUTION
66A JRM/MA/ML
SUB-OUT
10 OF 100 MISAS COT

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

Global ID: _____

Cost Center:
 1. Relinquished By: _____ Date: 08/03/17 Time: 1145
 2. Relinquished By: _____ Date: 8-3-17 Time: 1915
 3. Relinquished By: _____ Date: _____ Time: _____

Comments:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR GC (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 (CA Default)
 Geotracker 2 File
 Other (Specify): _____

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 17-21528

SHIPPING INFORMATION		SHIPPING CONTAINER		FREE LIQUID
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	Ontrac <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>	Ice Chest <input checked="" type="checkbox"/>
BC Lab Field Service <input checked="" type="checkbox"/>	Other <input type="checkbox"/> (Specify) _____	None <input type="checkbox"/>	Box <input type="checkbox"/>	Other <input type="checkbox"/> (Specify) _____
				YES <input type="checkbox"/> NO <input type="checkbox"/>
				<u>W</u> / S

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: 0.95 Container: PE Thermometer ID: 208 Date/Time: 8/3/15

Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		JK	JK	D	D					
4oz / 8oz / (6oz) PE UNPRES			L	F						
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / (16oz)		LM	MN	F	E					
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A-I	A-I	ABC	ABC					
QT EPA 1664										
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 EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____ Date/Time: 8/3/15 11:30 Rev 21 05/23/2016

Sample Numbering Completed By: GSP/MSK [S:\WPDoc\WordPerfect\LAB_DDCS\FORMS\ISAMRECrev 20]

A = Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1721528-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-9-080317 Sampled By: Blaine Tech of BAT	Receive Date: 08/03/2017 19:15 Sampling Date: 08/03/2017 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-9-080317 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1721528-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-10 Sampled By: Blaine Tech of BAT	Receive Date: 08/03/2017 19:15 Sampling Date: 08/03/2017 07:15 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-10 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1721528-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-16 Sampled By: Blaine Tech of BAT	Receive Date: 08/03/2017 19:15 Sampling Date: 08/03/2017 08:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-16 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1721528-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-7 Sampled By: Blaine Tech of BAT	Receive Date: 08/03/2017 19:15 Sampling Date: 08/03/2017 09:35 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1721528-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-9-080317 Sampled By: Blaine Tech of BAT	Receive Date: 08/03/2017 19:15 Sampling Date: 08/03/2017 09:45 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-9-080317 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-01	Client Sample Name: JPL-GW, TB-9-080317, 8/3/2017 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-01	Client Sample Name: JPL-GW, TB-9-080317, 8/3/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-01	Client Sample Name: JPL-GW, TB-9-080317, 8/3/2017 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.1	%	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	08/07/17	08/08/17 05:13	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721528-01	Client Sample Name: JPL-GW, TB-9-080317, 8/3/2017 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	08/07/17	08/08/17 05:13	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-02	Client Sample Name: JPL-GW, MW-10, 8/3/2017 7:15:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-02	Client Sample Name: JPL-GW, MW-10, 8/3/2017 7:15:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-02	Client Sample Name: JPL-GW, MW-10, 8/3/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/07/17	08/08/17 02:32	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721528-02	Client Sample Name: JPL-GW, MW-10, 8/3/2017 7:15:00AM, 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	08/07/17	08/08/17 02:32	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721528-02	Client Sample Name: JPL-GW, MW-10, 8/3/2017 7:15:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.0	ug/L	4.0	0.58	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/15/17	08/15/17 08:45	OLH	IC6	1	B[H1387

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721528-02	Client Sample Name: JPL-GW, MW-10, 8/3/2017 7:15:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0029	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	3.8	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	08/03/17	08/03/17 21:10	TMS	KONE-1	1	B[H0395
2	EPA-200.8	08/07/17	08/07/17 23:59	MH1	PE-EL2	1	B[H0588

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-03	Client Sample Name: JPL-GW, MW-16, 8/3/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	3.8	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	3.1	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	1.6	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-03	Client Sample Name: JPL-GW, MW-16, 8/3/2017 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-03	Client Sample Name: JPL-GW, MW-16, 8/3/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	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	08/08/17	08/08/17 14:02	MGC	MS-V5	1	B[H0789

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721528-03	Client Sample Name: JPL-GW, MW-16, 8/3/2017 8:30:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	08/08/17	08/08/17 14:02	MGC	MS-V5	1	B[H0789

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721528-03	Client Sample Name: JPL-GW, MW-16, 8/3/2017 8:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	86	mg/L	0.50	0.077	EPA-300.0	ND		1
Nitrate as N	1.4	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	54	mg/L	1.0	0.13	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		3
ortho-Phosphate as P	0.30	mg/L	0.050	0.017	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/04/17	08/04/17 18:29	EMW	IC5	1	B[H0502
2	EPA-353.2	08/04/17	08/04/17 08:39	RCC	KONE-1	1	B[H0564
3	EPA-314.0	08/15/17	08/15/17 21:54	OLH	IC6	1	B[H1591
4	EPA-365.1	08/04/17	08/04/17 09:09	RCC	KONE-1	1	B[H0566

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721528-03	Client Sample Name: JPL-GW, MW-16, 8/3/2017 8:30:00AM, Blaine Tech
----------------------------------	---

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	76	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	08/03/17	08/03/17 21:10	TMS	KONE-1	1	B[H0396
2	EPA-200.8	08/07/17	08/08/17 00:38	MH1	PE-EL2	1	B[H0588

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-04	Client Sample Name: JPL-GW, MW-7, 8/3/2017 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	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	0.20	ug/L	0.50	0.20	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	2.4	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-04	Client Sample Name: JPL-GW, MW-7, 8/3/2017 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	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-04	Client Sample Name: JPL-GW, MW-7, 8/3/2017 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	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.8	%	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	08/07/17	08/08/17 05:59	MGC	MS-V5	1	B[H0652

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721528-04	Client Sample Name: JPL-GW, MW-7, 8/3/2017 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	08/07/17	08/08/17 05:59	MGC	MS-V5	1	B[H0652

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Tidewater Inc.
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Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721528-04	Client Sample Name: JPL-GW, MW-7, 8/3/2017 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	86	mg/L	0.50	0.077	EPA-300.0	ND		1
Nitrate as N	1.5	mg/L	0.10	0.021	EPA-300.0	ND		1
Sulfate	55	mg/L	1.0	0.13	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	12	ug/L	4.0	0.58	EPA-314.0	ND		3
ortho-Phosphate as P	ND	mg/L	0.050	0.017	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	08/04/17	08/04/17 18:47	EMW	IC5	1	B[H0502
2	EPA-353.2	08/04/17	08/04/17 08:39	RCC	KONE-1	1	B[H0564
3	EPA-314.0	08/15/17	08/15/17 23:49	EMW	IC6	1	B[H1387
4	EPA-365.1	08/04/17	08/04/17 09:09	RCC	KONE-1	1	B[H0566

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721528-04	Client Sample Name: JPL-GW, MW-7, 8/3/2017 9:35:00AM, 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	7400	ug/L	30	5.0	EPA-200.8	ND	A07	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	08/03/17	08/03/17 21:31	TMS	KONE-1	1	B[H0396
2	EPA-200.8	08/07/17	08/09/17 05:40	MH1	PE-EL2	10	B[H0588

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-05 Client Sample Name: JPL-GW, EB-9-080317, 8/3/2017 9:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	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	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-05 Client Sample Name: JPL-GW, EB-9-080317, 8/3/2017 9:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	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	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	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	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1721528-05 **Client Sample Name:** JPL-GW, EB-9-080317, 8/3/2017 9:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	V11	1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	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	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	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	08/07/17	08/08/17 06:22	MGC	MS-V5	1	B[H0652

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Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1721528-05	Client Sample Name: JPL-GW, EB-9-080317, 8/3/2017 9:45:00AM, 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	08/07/17	08/08/17 06:22	MGC	MS-V5	1	B[H0652

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1721528-05	Client Sample Name: JPL-GW, EB-9-080317, 8/3/2017 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.58	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	08/15/17	08/15/17 11:45	OLH	IC6	1	B[H1387

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1721528-05	Client Sample Name: JPL-GW, EB-9-080317, 8/3/2017 9:45:00AM, 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	0.78	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-7196	08/03/17	08/03/17 21:14	TMS	KONE-1	1	B[H0396	
2	EPA-200.8	08/07/17	08/08/17 00:44	MH1	PE-EL2	1	B[H0588	

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0652						
Benzene	B[H0652-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0652-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0652-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0652-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0652-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0652-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0652-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0652-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0652-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0652-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B[H0652-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0652-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0652-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0652-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0652-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0652-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0652-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0652-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0652-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0652-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0652-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0652-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0652-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0652						
trans-1,3-Dichloropropene	B[H0652-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0652-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0652-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0652-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0652-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0652-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0652-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0652-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0652-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0652-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0652-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0652-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0652-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0652-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0652-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0652-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0652-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0652-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0652-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0652-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0652-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0652-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0652-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0652-BLK1	ND	ug/L	4.0	1.3	

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Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0652]

Ethyl t-butyl ether	B[H0652-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0652-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0652-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0652-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0652-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0652-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0652-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0652-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0652-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0652-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0652-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0652-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0652-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0652-BLK1	101	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0652-BLK1	99.4	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0652-BLK1	97.4	%	80 - 120 (LCL - UCL)		

QC Batch ID: B[H0789]

Benzene	B[H0789-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B[H0789-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B[H0789-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B[H0789-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B[H0789-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B[H0789-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B[H0789-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B[H0789-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B[H0789-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B[H0789-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B[H0789-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B[H0789-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B[H0789-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B[H0789-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B[H0789-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B[H0789-BLK1	ND	ug/L	0.50	0.093	

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Project Number: 3Q17
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: B[H0789]						
Dibromochloromethane	B[H0789-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B[H0789-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B[H0789-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B[H0789-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B[H0789-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B[H0789-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B[H0789-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B[H0789-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B[H0789-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B[H0789-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B[H0789-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B[H0789-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B[H0789-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B[H0789-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B[H0789-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B[H0789-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B[H0789-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B[H0789-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B[H0789-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B[H0789-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B[H0789-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B[H0789-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B[H0789-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B[H0789-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B[H0789-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B[H0789-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B[H0789-BLK1	ND	ug/L	0.50	0.12	
Styrene	B[H0789-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B[H0789-BLK1	ND	ug/L	0.50	0.21	
1,1,2,2-Tetrachloroethane	B[H0789-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B[H0789-BLK1	ND	ug/L	0.50	0.23	
Toluene	B[H0789-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B[H0789-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B[H0789-BLK1	ND	ug/L	0.50	0.15	

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0789]						
1,1,1-Trichloroethane	B[H0789-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B[H0789-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B[H0789-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B[H0789-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B[H0789-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[H0789-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B[H0789-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B[H0789-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B[H0789-BLK1	ND	ug/L	0.50	0.18	
Acetone	B[H0789-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B[H0789-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B[H0789-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B[H0789-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B[H0789-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B[H0789-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B[H0789-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B[H0789-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B[H0789-BLK1	ND	ug/L	4.0	1.3	
Ethyl t-butyl ether	B[H0789-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B[H0789-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B[H0789-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B[H0789-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B[H0789-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B[H0789-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B[H0789-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B[H0789-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B[H0789-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B[H0789-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B[H0789-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B[H0789-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B[H0789-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B[H0789-BLK1	101	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B[H0789-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B[H0789-BLK1	99.4	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0652										
Benzene	B[H0652-BS1	LCS	25.940	25.000	ug/L	104		70 - 130		
Bromodichloromethane	B[H0652-BS1	LCS	27.370	25.000	ug/L	109		70 - 130		
Chlorobenzene	B[H0652-BS1	LCS	23.650	25.000	ug/L	94.6		70 - 130		
Chloroethane	B[H0652-BS1	LCS	24.790	25.000	ug/L	99.2		70 - 130		
1,4-Dichlorobenzene	B[H0652-BS1	LCS	23.870	25.000	ug/L	95.5		70 - 130		
1,1-Dichloroethane	B[H0652-BS1	LCS	26.510	25.000	ug/L	106		70 - 130		
1,1-Dichloroethene	B[H0652-BS1	LCS	28.240	25.000	ug/L	113		70 - 130		
Toluene	B[H0652-BS1	LCS	25.240	25.000	ug/L	101		70 - 130		
Trichloroethene	B[H0652-BS1	LCS	24.440	25.000	ug/L	97.8		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0652-BS1	LCS	11.310	10.000	ug/L	113		75 - 125		
Toluene-d8 (Surrogate)	B[H0652-BS1	LCS	10.100	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0652-BS1	LCS	10.110	10.000	ug/L	101		80 - 120		

QC Batch ID: B[H0789										
Benzene	B[H0789-BS1	LCS	25.170	25.000	ug/L	101		70 - 130		
Bromodichloromethane	B[H0789-BS1	LCS	25.650	25.000	ug/L	103		70 - 130		
Chlorobenzene	B[H0789-BS1	LCS	23.490	25.000	ug/L	94.0		70 - 130		
Chloroethane	B[H0789-BS1	LCS	24.830	25.000	ug/L	99.3		70 - 130		
1,4-Dichlorobenzene	B[H0789-BS1	LCS	23.260	25.000	ug/L	93.0		70 - 130		
1,1-Dichloroethane	B[H0789-BS1	LCS	25.580	25.000	ug/L	102		70 - 130		
1,1-Dichloroethene	B[H0789-BS1	LCS	26.860	25.000	ug/L	107		70 - 130		
Toluene	B[H0789-BS1	LCS	24.670	25.000	ug/L	98.7		70 - 130		
Trichloroethene	B[H0789-BS1	LCS	24.410	25.000	ug/L	97.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B[H0789-BS1	LCS	9.6900	10.000	ug/L	96.9		75 - 125		
Toluene-d8 (Surrogate)	B[H0789-BS1	LCS	10.000	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	B[H0789-BS1	LCS	9.8900	10.000	ug/L	98.9		80 - 120		

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0652] and Used client sample: Y - Description: MW-10, 08/03/2017 07:15.

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: B[H0789] and Used client sample: Y - Description: MW-16, 08/03/2017 08:30.

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0789]		Used client sample: Y - Description: MW-16, 08/03/2017 08:30								
1,1-Dichloroethene	MS	1721528-03	ND	28.400	25.000	ug/L		114		70 - 130
	MSD	1721528-03	ND	26.900	25.000	ug/L	5.4	108	20	70 - 130
Toluene	MS	1721528-03	ND	25.420	25.000	ug/L		102		70 - 130
	MSD	1721528-03	ND	25.310	25.000	ug/L	0.4	101	20	70 - 130
Trichloroethene	MS	1721528-03	ND	25.030	25.000	ug/L		100		70 - 130
	MSD	1721528-03	ND	24.490	25.000	ug/L	2.2	98.0	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1721528-03	ND	9.8400	10.000	ug/L		98.4		75 - 125
	MSD	1721528-03	ND	9.2300	10.000	ug/L	6.4	92.3		75 - 125
Toluene-d8 (Surrogate)	MS	1721528-03	ND	10.000	10.000	ug/L		100		80 - 120
	MSD	1721528-03	ND	9.9800	10.000	ug/L	0.2	99.8		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1721528-03	ND	10.280	10.000	ug/L		103		80 - 120
	MSD	1721528-03	ND	9.6100	10.000	ug/L	6.7	96.1		80 - 120

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0652]

Chloroacetonitrile	B[H0652-BLK1	0	ug/L			
1-Chlorobutane	B[H0652-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0652-BLK1	0	ug/L			
Methyl acrylate	B[H0652-BLK1	0	ug/L			
Nitrobenzene	B[H0652-BLK1	0	ug/L			
2-Nitropropane	B[H0652-BLK1	0	ug/L			

QC Batch ID: B[H0789]

Chloroacetonitrile	B[H0789-BLK1	0	ug/L			
1-Chlorobutane	B[H0789-BLK1	0	ug/L			
1,1-Dichloropropanone	B[H0789-BLK1	0	ug/L			
Methyl acrylate	B[H0789-BLK1	0	ug/L			
Nitrobenzene	B[H0789-BLK1	0	ug/L			
2-Nitropropane	B[H0789-BLK1	0	ug/L			

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Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0502]						
Chloride	B[H0502-BLK1	ND	mg/L	0.50	0.077	
Nitrate as N	B[H0502-BLK1	ND	mg/L	0.10	0.021	
Sulfate	B[H0502-BLK1	ND	mg/L	1.0	0.13	
QC Batch ID: B[H0564]						
Nitrite as N	B[H0564-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B[H0566]						
ortho-Phosphate as P	B[H0566-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B[H1387]						
Perchlorate	B[H1387-BLK1	ND	ug/L	4.0	0.58	
QC Batch ID: B[H1591]						
Perchlorate	B[H1591-BLK1	ND	ug/L	4.0	0.58	

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Powell, OH 43065

Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0502]										
Chloride	B[H0502-BS1	LCS	49.575	50.000	mg/L	99.2		90 - 110		
Nitrate as N	B[H0502-BS1	LCS	4.9230	5.0000	mg/L	98.5		90 - 110		
Sulfate	B[H0502-BS1	LCS	100.05	100.00	mg/L	100		90 - 110		
QC Batch ID: B[H0564]										
Nitrite as N	B[H0564-BS1	LCS	0.51917	0.50000	mg/L	104		90 - 110		
QC Batch ID: B[H0566]										
ortho-Phosphate as P	B[H0566-BS1	LCS	0.20665	0.20000	mg/L	103		90 - 110		
QC Batch ID: B[H1387]										
Perchlorate	B[H1387-BS1	LCS	10.825	10.000	ug/L	108		85 - 115		
QC Batch ID: B[H1591]										
Perchlorate	B[H1591-BS1	LCS	11.468	10.000	ug/L	115		85 - 115		

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0502]		Used client sample: Y - Description: MW-16, 08/03/2017 08:30								
Chloride	DUP	1721528-03	85.935	82.141		mg/L	4.5		10	
	MS	1721528-03	85.935	131.04	50.505	mg/L		89.3		80 - 120
	MSD	1721528-03	85.935	131.29	50.505	mg/L	0.2	89.8	10	80 - 120
Nitrate as N	DUP	1721528-03	1.3900	1.3450		mg/L	3.3		10	
	MS	1721528-03	1.3900	6.1626	5.0505	mg/L		94.5		80 - 120
	MSD	1721528-03	1.3900	6.2000	5.0505	mg/L	0.6	95.2	10	80 - 120
Sulfate	DUP	1721528-03	53.956	51.022		mg/L	5.6		10	
	MS	1721528-03	53.956	153.08	101.01	mg/L		98.1		80 - 120
	MSD	1721528-03	53.956	154.14	101.01	mg/L	0.7	99.2	10	80 - 120
QC Batch ID: B[H0564]		Used client sample: Y - Description: MW-16, 08/03/2017 08:30								
Nitrite as N	DUP	1721528-03	ND	ND		mg/L			10	
	MS	1721528-03	ND	0.54471	0.52632	mg/L		103		90 - 110
	MSD	1721528-03	ND	0.54886	0.52632	mg/L	0.8	104	10	90 - 110
QC Batch ID: B[H0566]		Used client sample: Y - Description: MW-16, 08/03/2017 08:30								
ortho-Phosphate as P	DUP	1721528-03	0.29618	0.29767		mg/L	0.5		10	
	MS	1721528-03	0.29618	0.51241	0.21053	mg/L		103		90 - 110
	MSD	1721528-03	0.29618	0.51262	0.21053	mg/L	0.0	103	10	90 - 110
QC Batch ID: B[H1387]		Used client sample: Y - Description: MW-10, 08/03/2017 07:15								
Perchlorate	DUP	1721528-02	2.0414	2.1523		ug/L	5.3		15	J
	MS	1721528-02	2.0414	10.177	10.101	ug/L		80.5		80 - 120
	MSD	1721528-02	2.0414	10.764	10.101	ug/L	5.6	86.4	15	80 - 120
QC Batch ID: B[H1591]		Used client sample: Y - Description: MW-16, 08/03/2017 08:30								
Perchlorate	DUP	1721528-03	ND	ND		ug/L			15	
	MS	1721528-03	ND	10.830	10.101	ug/L		107		80 - 120
	MSD	1721528-03	ND	10.005	10.101	ug/L	7.9	99.1	15	80 - 120

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0395]						
Hexavalent Chromium	B[H0395-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: B[H0396]						
Hexavalent Chromium	B[H0396-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: B[H0588]						
Total Recoverable Chromium	B[H0588-BLK1	ND	ug/L	3.0	0.50	

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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: B[H0395										
Hexavalent Chromium	B[H0395-BS1	LCS	0.049781	0.050000	mg/L	99.6		85	115	
QC Batch ID: B[H0396										
Hexavalent Chromium	B[H0396-BS1	LCS	0.048185	0.050000	mg/L	96.4		85	115	
QC Batch ID: B[H0588										
Total Recoverable Chromium	B[H0588-BS1	LCS	40.781	40.000	ug/L	102		85	115	

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Reported: 08/18/2017 17:40
Project: JPL- GW Monitoring Wells
Project Number: 3Q17
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	Percent Recovery	
QC Batch ID: B[H0395]		Used client sample: Y - Description: MW-10, 08/03/2017 07:15								
Hexavalent Chromium	DUP	1721528-02	0.0029130	0.0029320		mg/L	0.7		10	
	MS	1721528-02	0.0029130	0.055043	0.052632	mg/L		99.0		85 - 115
	MSD	1721528-02	0.0029130	0.055247	0.052632	mg/L	0.4	99.4	10	85 - 115
QC Batch ID: B[H0396]		Used client sample: Y - Description: MW-16, 08/03/2017 08:30								
Hexavalent Chromium	DUP	1721528-03	0.0016070	0.0015730		mg/L	2.1		10	J
	MS	1721528-03	0.0016070	0.053341	0.052632	mg/L		98.3		85 - 115
	MSD	1721528-03	0.0016070	0.053155	0.052632	mg/L	0.3	97.9	10	85 - 115
QC Batch ID: B[H0588]		Used client sample: Y - Description: MW-10, 08/03/2017 07:15								
Total Recoverable Chromium	DUP	1721528-02	3.7720	3.4770		ug/L	8.1		20	
	MS	1721528-02	3.7720	40.358	40.000	ug/L		91.5		70 - 130
	MSD	1721528-02	3.7720	39.912	40.000	ug/L	1.1	90.4	20	70 - 130

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Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.